

## Editorial Board

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## Members (1721)

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**Prof. Dr. Fernando Albericio** (<https://sciprofiles.com/profile/11221>)

**Website** (<https://orcid.org/0000-0002-8946-0462>)

*Associate Editor*

1. Peptide Science Laboratory, School of Chemistry and Physics, University of KwaZulu-Natal, Durban 4001, South Africa
2. CIBER-BBN (Networking Centre on Bioengineering, Biomaterials and Nanomedicine) and Department of Organic Chemistry, University of Barcelona, 08028 Barcelona, Spain

**Interests:** organic chemistry; organic synthesis; peptides; mechanisms of action; interaction of peptides with eukaryotic and prokaryotic cells

**Special Issues, Collections and Topics in MDPI journals**



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**Prof. Dr. Maurizio Battino** (<https://sciprofiles.com/profile/75402>)

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**Website** (<http://www.univpm.it/maurizio.battino>)

*Associate Editor*

**Interests:** organic chemistry; organic synthesis; peptides; mechanisms of action; interaction of peptides with eukaryotic and prokaryotic cells

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Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60132 Ancona, Italy

**Interests:** nutrition; periodontal diseases/periodontitis; oxidative stress; aging; mitochondrial function and diseases; berries (strawberry, blueberry, bilberry, cranberry, etc.); olive oil (dietary fats); honey, polyphenols; flavonoids; antioxidants, apoptosis

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**Dr. John A. Beutler** (<https://sciprofiles.com/profile/4056>)

**Website** (<https://ccr.cancer.gov/molecular-targets-program/john-a-beutler>)

*Associate Editor*

Molecular Targets Laboratory, Bldg 560-1, Room 11-86, Frederick National Laboratory for Cancer Research, Frederick, MD 21702-1201, USA

**Interests:** natural products; cancer; HIV; plants; molecular targets

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**Prof. Dr. Yi Tang** (<https://sciprofiles.com/profile/273008>)

**Website** (<https://chemistry.fudan.edu.cn/>)

*Associate Editor*

Department of Chemistry, Fudan University, Shanghai 200433, China

**Interests:** zeolite catalysis and nanomaterials for energy conversion and fine chemicals production

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**Prof. Dr. Curt Wenstrup** (<https://sciprofiles.com/profile/138128>)

**Website** (<http://researchers.uq.edu.au/researcher/3606>)

*Associate Editor*

School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, QLD 4072, Australia

**Interests:** reactive intermediates; unusual molecules; carbenes; nitrenes; radicals; biradicals; cumulenes; flash vacuum pyrolysis; photochemistry; matrix isolation; microwave-induced reactions

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**Prof. Dr. Santiago Aparicio** (<https://sciprofiles.com/profile/525312>)

**Website** ([http://www3.ubu.es/iccram/nano-piezoelectrics/?page\\_id=41](http://www3.ubu.es/iccram/nano-piezoelectrics/?page_id=41))

*Associate Section Editor-in-Chief*

Department of Chemistry, University of Burgos, 09001 Burgos, Spain

**Interests:** molecular modeling; thermodynamics; ionic liquids; deep eutectic solvents; CO<sub>2</sub> capture; nano-materials; phase equilibrium; physical chemistry

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**Prof. Dr. Nigel D. Browning**

**Website** (<https://www.liverpool.ac.uk/engineering/staff/nigel-browning/>)

*Associate Section Editor-in-Chief*

Pacific Northwest National Laboratory, School of Engineering & School of Physical Sciences, University of Liverpool, Liverpool L69 3GQ, UK

**Interests:** atomic resolution and operando scanning transmission electron microscopy studies of energy storage materials and processes; multimodal characterization of new battery systems for a circular economy

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**Prof. Dr. Santiago Garcia-Granda** (<https://sciprofiles.com/profile/159541>)

**Website** ([https://qfa.uniovi.es/areas/qfisica/-/asset\\_publisher/z5GW/content/garcia-granda-santiago?redirect=%2Fareas%2Fqfisica](https://qfa.uniovi.es/areas/qfisica/-/asset_publisher/z5GW/content/garcia-granda-santiago?redirect=%2Fareas%2Fqfisica))

*Associate Section Editor-in-Chief*

Faculty of Chemistry, University of Oviedo, 33006 Oviedo, Spain

**Interests:** molecular modeling; thermodynamics; ionic liquids; deep eutectic solvents; CO<sub>2</sub> capture; nano-materials; phase equilibrium; physical chemistry

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**Prof. Dr. Ivan Gitsov** (<https://sciprofiles.com/profile/655455>)

**Website** (<https://www.esf.edu/faculty/gitsov/>)

Associate Section Editor-in-Chief

The Michael M. Szwarc Polymer Research Institute, State University of New York – ESF, Syracuse, NY 13210, USA

**Interests:** synthesis and characterization of polymers with novel macromolecular architectures: Linear, dendritic, linear-dendritic, star-dendritic, cyclo-dendritic, dendronized, hyperbranched and linear-hyperbranched; biocompatible and biodegradable polymers, novel polymeric systems for drug delivery and diagnosis (theranostics materials); "living" polymerization methods; macromolecular self-assembly and interfacial transport; polymer-supported biocatalysis and "green" chemistry, semi-artificial enzymes

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**Prof. Dr. Eun Kyoung Seo** (<https://sciprofiles.com/profile/104809>)

**Website** (<http://www.ewha.ac.kr/ewhaen/professor/info.do?mode=view&pid=UhRptxaV%2BfwnSxPhjQ0EWg%3D%3D>)

Associate Section Editor-in-Chief

College of Pharmacy, Ewha Womans University, Seoul 03760, Korea

**Interests:** natural products; isolation and structure determination of natural compounds; standardization of traditional medicine; analysis of compounds; pharmacognosy; traditional medicine; dietary supplement; food ingredients

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**Prof. Dr. Riccardo Spaccini** (<https://sciprofiles.com/profile/1086216>)

**Website** (<https://www.docenti.unina.it/riccardo.spaccini>)

Associate Section Editor-in-Chief

Department of Agricultural Sciences University of Napoli Federico II, Portici, Italy

**Interests:** biomasse recycling; structural activity relationship; molecular characterization

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**Prof. Dr. Jianzhang Zhao** (<https://sciprofiles.com/profile/2413421>)

**Website** (<http://photochem.dlut.edu.cn>)

Associate Section Editor-in-Chief

State Key Laboratory of Fine Chemicals, School of Chemical Engineering, Dalian University of Technology, Dalian 116024, China

**Interests:** charge separation; electron transfer; energy transfer; intersystem crossing; triplet state



**Prof. Dr. Ryszard Amarowicz** (<https://sciprofiles.com/profile/19698>)

**Website** (<https://recenzenci.opi.org.pl/sssr-web/site/people-details?personId=261dc64524b6555b>)

Section Associate Editor

Institute of Animal Reproduction and Food Research, Polish Academy of Sciences, Olsztyn, Poland

**Interests:** analytical chemistry; polymer chemistry; food science

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**Prof. Dr. Claudia Crestini** (<https://sciprofiles.com/profile/477547>)

**Website** (<https://polyphenols.weebly.com/claudia-crestini.html>)

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Section Associate Editor

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Department of Molecular Sciences and Nanosystems, Ca' Foscari University of Venice Via Torino 155, 30170 Venice Mestre, Italy

**Interests:** chemistry of renewable resources; green chemistry and biorefineries; natural polymers; lignin; tannin; nanocapsules; nanoparticles; nanofibers;

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targeted delivery; structure elucidation; flow chemistry

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**Prof. Dr. Jesmond Dalli** (<https://sciprofiles.com/profile/1960955>)

**Website1** (<https://www.qmul.ac.uk/whri/people/academic-staff/items/dallijesmond.html>) **Website2** (<https://jdallilab.com/>)

Section Associate Editor

William Harvey Research Institute, Barts and The London School of Medicine, Queen Mary University of London, Charterhouse Square, London EC1M 6BQ, UK

**Interests:** resolution biology; lipid mediators; inflammation; identification of functional biomarkers; leukocyte biology

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**Prof. Dr. Eva de Lago Femia** (<https://sciprofiles.com/profile/1759354>)

**Website** (<https://www.ucm.es/directorio?id=19602>)

Section Associate Editor

Instituto de Investigación en Neuroquímica, Departamento de Bioquímica y Biología Molecular, Universidad Complutense de Madrid, Madrid, Spain

**Interests:** endocannabinoids; neuroprotective compounds; inflammation; lipids mediators; biomarkers; kinase inhibitors

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**Prof. Dr. César Augusto Correia de Sequeira** (<https://sciprofiles.com/profile/517188>)

**Website** (<http://meg.ist.utl.pt/people.html>)

Section Associate Editor

Materials Electrochemistry Group, Instituto Superior Técnico, University of Lisbon, 1049-001 Lisbon, Portugal

**Interests:** electrochemistry of materials; electrocatalysis; low temperature polymer electrolyte membrane fuel cells; high temperature corrosion

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**Dr. Jianlin Han** (<https://sciprofiles.com/profile/1014662>)

**Website** (<https://hg.njfu.edu.cn/szdw/js/20220905/1258306.html>)

Section Associate Editor

Jiangsu Co-Innovation Center of Efficient Processing and Utilization of Forest Resources, College of Chemical Engineering, Nanjing Forestry University, Nanjing 210037, China

**Interests:** organic fluorine chemistry; organic radical reactions; electrosynthesis; asymmetric synthesis



**Dr. Daniela Rigano** (<https://sciprofiles.com/profile/228690>)

**Website** (<https://www.docenti.unina.it/daniela.rigano>)

Section Associate Editor

Department of Pharmacy, School of Medicine and Surgery, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy

**Interests:** natural products; secondary metabolites; structure elucidation; essential oils; NMR spectroscopy; GC-MS and LC-MS

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**Prof. Dr. Steven Verhelst** (<https://sciprofiles.com/profile/501806>)

**Website** (<http://www.verhelstlab.net/>)

Section Associate Editor

Laboratory of Chemical Biology, Department of Cellular and Molecular Medicine, KU Leuven, Belgium

**Interests:** create cookies on our website to ensure you get the best experience; chemical proteomics; cleavable linkers; intramembrane proteases;

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**Dr. Sylvain Caillol** (<https://sciprofiles.com/profile/223177>)

**Website** (<https://www.icgm.fr/Sylvain-Caillol/>)

*Section Editor-in-Chief*

Institut Charles Gerhardt Montpellier (ICGM), University of Montpellier, CNRS, ENSCM, 34095 Montpellier, France

**Interests:** green and sustainable chemistry; building-blocks from biomass; biobased monomers and polymers

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**Dr. Giuseppe Cirillo** (<https://sciprofiles.com/profile/128023>)

**Website** (<https://www.unical.it/storage/teachers/gAAAAABjflszXIt891g8UvXncByRTNQTHclBgvBqx-h4fn6Qp4tGKMV8ySDTTuaneJGFCEqbeqzstgjalyRsr6zMrirVdyOfQ==/>)

*Section Editor-in-Chief*

Department of Pharmacy, Health and Nutritional Sciences, University of Calabria, 87036 Rende, Italy

**Interests:** nanomaterials; biomaterials; carbon nanostructures; composite and hybrid materials; biomedical applications of functional materials; therapeutic devices; surface chemistry

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**Prof. Dr. Roman Dembinski** (<https://sciprofiles.com/profile/11013>)

**Website** (<https://www.oakland.edu/chemistry/faculty/dembinski/>)

*Section Editor-in-Chief*

Department of Chemistry, Oakland University, 146 Library Drive, Rochester, MI 48309-4479, USA

**Interests:** organic, organometallic, and medicinal chemistry; organic synthesis; nucleosides; heterocycles; alkynes; fluorine and fluorous; cycloisomerizations; cyclizations

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**Prof. Dr. Mara G. Freire** (<https://sciprofiles.com/profile/989995>)

**Website** (<http://www.ciceco.ua.pt/MaraFreire>)

*Section Editor-in-Chief*

CICECO - Aveiro Institute of Materials, Chemistry Department, University of Aveiro, Aveiro, Portugal

**Interests:** separation processes; ionic liquids; deep eutectic solvents; (bio)pharmaceuticals; biomarkers; purification; stability

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**Prof. Dr. James Gauld** (<https://sciprofiles.com/profile/16342>)

**Website** (<http://arc1.uwindsor.ca/~compchem/default.html>)

*Section Editor-in-Chief*

Department of Chemistry and Biochemistry, University of Windsor, Windsor, ON N9B 3P4, Canada

**Interests:** computational chemistry; quantum mechanics/molecular mechanics; molecular dynamics; docking; catalysis; enzymology; thermochemistry; reaction mechanisms; sulfur biochemistry

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**Prof. Dr. Henryk H. Jeleń** (<https://sciprofiles.com/profile/403436>)

**Website** (<https://www1.up.poznan.pl/zchzai/?p=192>)

*Section Editor-in-Chief*

Faculty of Food Science and Nutrition, Poznań University of Life Sciences, Wojska Polskiego 31, 60-624 Poznań, Poland

**Interests:** food flavors—formation and analytical aspects; extraction techniques in flavor analysis; gas chromatography—mass spectrometry in aroma research; electronic noses; food volatiles for sensory testing; microbial volatiles; off-flavors

**Special Issues, Collections and Topics in MDPI journals**



**Prof. Dr. Diego Muñoz-Torrero** (<https://sciprofiles.com/profile/86402>)

**Website** (<https://www1.up.poznan.pl/zchzai/?p=192>)

*Section Editor-in-Chief*

Faculty of Food Science and Nutrition, Poznań University of Life Sciences, Wojska Polskiego 31, 60-624 Poznań, Poland

**Interests:** food flavors—formation and analytical aspects; extraction techniques in flavor analysis; gas chromatography—mass spectrometry in aroma research; electronic noses; food volatiles for sensory testing; microbial volatiles; off-flavors

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**Prof. Dr. Ashok Kakkar** (<https://sciprofiles.com/profile/52554>)

**Website** (<http://www.mcgill.ca/kakkargroup/>)

*Section Editor-in-Chief*

Department of Chemistry, McGill University, 801 Sherbrooke St. West, Montreal, QC H3A 0B8, Canada

**Interests:** nanostructures; soft nanoparticles; macromolecules; dendrimers; miktoarm polymers; telodendrimers; naked nanocarriers; metal nanoparticles; gold nanoshells; iron oxide nanoparticles; nanomedicine; drug delivery; diagnostics

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**Prof. Dr. Axel Klein** (<https://sciprofiles.com/profile/93105>)

**Website** (<http://www.klein.uni-koeln.de/>)

*Section Editor-in-Chief*

Faculty of Mathematics and Natural Sciences, Department of Chemistry, Institute for Inorganic Chemistry, University of Cologne, Greinstraße 6, 50939 Köln, Germany

**Interests:** transition metal complexes (including organometallic); platinum; palladium; nickel; synthesis; electrochemistry; photophysics; spectroscopy; modelling of catalytic processes

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**Prof. Dr. R. Daniel Little** (<https://sciprofiles.com/profile/47467>)

**Website** (<https://www.chem.ucsb.edu/people/r-daniel-little>)

*Section Editor-in-Chief*

Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106, USA

**Interests:** direct and mediated electron transfer processes; electrochemical and photochemical electron transfer agents and their behavioral duality; mechanistic investigations and applications of electrochemistry to synthesis; flow electrochemistry

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**Prof. Dr. Mauro Maccarrone** (<https://sciprofiles.com/profile/348414>)

**Website** (<https://www.unicampus.it/en/persona/2557>)

*Section Editor-in-Chief*

1. Department of Biotechnological and Applied Clinical Sciences, University of L'Aquila, L'Aquila, Italy

2. European Center for Brain Research, Santa Lucia Foundation IRCCS, Rome, Italy

**Interests:** arachidonate cascade; bioactive lipids; biomarkers; cell membranes; endocannabinoids; resolvins; signal transduction

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**Prof. Dr. Diego Muñoz-Torrero** (<https://sciprofiles.com/profile/86402>)

**Website** (<https://www1.up.poznan.pl/zchzai/?p=192>)

*Section Editor-in-Chief*

Faculty of Food Science and Nutrition, Poznań University of Life Sciences, Wojska Polskiego 31, 60-624 Poznań, Poland

**Interests:** food flavors—formation and analytical aspects; extraction techniques in flavor analysis; gas chromatography—mass spectrometry in aroma research; electronic noses; food volatiles for sensory testing; microbial volatiles; off-flavors

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Laboratory of Medicinal Chemistry, Faculty of Pharmacy and Food Sciences, Institute of Biomedicine (IBUB), University of Barcelona, Av. Joan XXIII, 27-31, E-08026 Barcelona, Spain

**Interests:** multitarget anti-Alzheimer agents; hybrid compounds; cholinesterase inhibitors; amyloid anti-aggregating compounds; BACE-1 inhibitors; antiprotozoan compounds

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**Prof. Dr. Lucia Panzella** (<https://sciprofiles.com/profile/1000480>) \*

**Website** (<https://www.docenti.unina.it/lucia.panzella>)

*Section Editor-in-Chief*

Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

**Interests:** structural characterization, extraction and evaluation/modulation of the antioxidant properties of natural phenolic compounds with particular reference to: a) exploitation of phenolic compounds especially from agri-food by-products for the development of functional materials to be used in cosmetics, food packaging and biomedicine; b) reactivity of natural phenolic compounds with reactive oxygen and nitrogen species and their manipulation/derivatization to improve their functional properties; c) evaluation of the antioxidant properties of phenolic compounds and of complex extracts/matrices by validated chemical assays; d) chemistry of melanin pigments

\* Colorants

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**Dr. Joselito P. Quirino** (<https://sciprofiles.com/profile/426435>)

**Website** (<http://www.utas.edu.au/profiles/staff/across/joselito-quirino>)

*Section Editor-in-Chief*

Australian Centre of Research on Separation Science, School of Physical Science, University of Tasmania, Hobart, Tasmania, Australia

**Interests:** capillary electrophoresis; liquid chromatography; mass spectrometry; sample concentration; green sample preparation

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**Prof. Dr. Thomas J. Schmidt** (<https://sciprofiles.com/profile/72041>)

**Website** (<http://www.uni-muenster.de/Chemie.pb/en/forschung/schmidt/index.html>)

*Section Editor-in-Chief*

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

**Interests:** natural products; anti-parasitic activity; anti-cancer activity; structure elucidation; spectroscopy; computer-aided structure-activity relationship studies

**Prof. Dr. Vadim A. Soloshonok** (<https://sciprofiles.com/profile/679285>)

**Website** (<https://www.ikerbasque.net/vadim-soloshonok>)

*Section Editor-in-Chief*

Department of Organic Chemistry I, University of Basque Country, San Sebastian, Spain

**Interests:** organic chemistry, synthesis, mechanisms; fluoro-organic chemistry, fluorine-containing pharmaceuticals and medicinal formulations; amino acids and peptides; neuro-chemistry; self-disproportionation of enantiomers; astrochemistry and origin of prebiotic homo-chirality

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**Prof. Dr. Michal Szostak** (<https://sciprofiles.com/profile/334998>) \*

**Website** (<https://sasn.rutgers.edu/about-us/faculty-staff/michal-szostak>)

*Section Editor-in-Chief*

Department of Chemistry, Rutgers University, 73 Warren St, Newark, NJ 07102, USA

**Interests:** amide bonds; N-heterocyclic carbenes; C-N activation; C-H activation; C-O activation; lanthanides; cross-coupling; catalysis; reductions; reductive couplings; radical chemistry; synthetic methodology; natural products

\* Organometallic Chemistry

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**Prof. Dr. Mark von Itzstein** (<https://sciprofiles.com/profile/238655>)

**Website** (<http://www.griffith.edu.au/glycomics>)

*Section Editor-in-Chief*

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Institute for Glycomics, Gold Coast Campus, Griffith University, Gold Coast, QLD 4222, Australia

**Interests:** drug discovery; glycobiology; chemoenzymatic transformations; chemical virology; infectious diseases; cancer

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**Prof. Dr. Anan Yaghmur** (<https://sciprofiles.com/profile/873824>)

**Website** (<https://pharmacy.ku.dk/employees/?pure=en/persons/366190>)

*Section Editor-in-Chief*

Department of Pharmacy, Kobenhavns Universitet, Copenhagen, Denmark

**Interests:** biophysical characterization of nano-self-assemblies, cubosomes, hexosomes; nanodispersions of inverse non-lamellar liquid crystalline phases; drug and functional food soft self-assembled nanocarriers; lyotropic liquid crystalline phases; microemulsions

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**Dr. Shu-Kun Lin** (<https://sciprofiles.com/profile/2>)

**Website** (<http://www.mdpi.org/lin/>)

*Advisory Board Member*

MDPI, St. Alban-Anlage 66, CH-4052 Basel, Switzerland

**Interests:** gibbs paradox; entropy; symmetry; similarity; diversity; information theory; thermodynamics; process irreversibility or spontaneity; stability; nature of the chemical processes; molecular recognition; open access journals

**Prof. Dr. Alaa Abd-El-Aziz** (<https://sciprofiles.com/profile/150061>)

**Website** ([https://files.upel.ca/president/Short\\_CV\\_Abd-El-Aziz.pdf](https://files.upel.ca/president/Short_CV_Abd-El-Aziz.pdf))

*Editorial Board Member*

Chemistry Department, Faculty of Science, University of Prince Edward Island, Charlottetown, PE C1A 4P, Canada

**Interests:** metal-containing macromolecules; organometallic polymers; dendrimers



**Prof. Dr. Mohamed Abdel-Rehim** (<https://sciprofiles.com/profile/569092>)

**Website** (<https://staff.ki.se/people/mohaab1>)

*Editorial Board Member*

1. MedSolutions Stockholm, Sweden

2. Department of Clinical Neuroscience, Centre for Psychiatry Research, Karolinska Institutet, SE-171 76 Stockholm, Sweden

**Interests:** drug research; bioanalysis; sampling and sample preparation for biological samples; mass spectrometry; liquid and gas chromatography

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**Dr. Kamyar Afarinkia** (<https://sciprofiles.com/profile/11016>)

**Website** (<https://www.uwl.ac.uk/staff/kamyar-afarinkia>)

*Editorial Board Member*

Head of Medicinal Chemistry, Institute of Cancer Therapeutics, Bradford BD7 1DP, UK

**Interests:** synthetic organic chemistry; medicinal chemistry; organophosphorus chemistry

**Prof. Dr. Igor Alabugin** (<https://sciprofiles.com/profile/386991>)

**Website** (<https://www.chem.fsu.edu/~alabugin/>)

*Editorial Board Member*

Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL, USA

**Interests:** organic reaction mechanisms; stereoelectronic effects; organic photochemistry; DNA photocleavage; carbon-rich materials; chemistry of alkynes; radical chemistry; cyclizations; cycloaromatizations; cycloadditions

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**Dr. Jonathan Albo** (<https://sciprofiles.com/profile/351157>)

**Website** ([https://www.researchgate.net/profile/Jonathan\\_Albo](https://www.researchgate.net/profile/Jonathan_Albo))

*Editorial Board Member*

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Chemical and Biomolecular Department, Universidad de Cantabria, Santander, Spain

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**Interests:** electro- and photocatalytic reduction of CO<sub>2</sub>; membrane separation processes; ionic liquids; environmental sustainability assessment

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**Dr. Mauricio Alcolea Palafox** (<https://sciprofiles.com/profile/533515>)

**Website** (<https://orcid.org/0000-0001-5353-993X>)

*Editorial Board Member*

Departamento de Química-Física, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040 Madrid, Spain

**Interests:** DFT study in biomolecules; anticancer drugs; antiviral; DNA structure; nucleosides

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**Prof. Dr. Hristiyan A. Aleksandrov** (<https://sciprofiles.com/profile/1302467>)

**Website** ([https://www.unisofia.bg/index.php/eng/the\\_university/faculties/faculty\\_of\\_chemistry\\_and\\_pharmacy/structures/departments/organic\\_chemistry\\_and\\_pharmacognos](https://www.unisofia.bg/index.php/eng/the_university/faculties/faculty_of_chemistry_and_pharmacy/structures/departments/organic_chemistry_and_pharmacognos))

*Editorial Board Member*

Faculty of Chemistry and Pharmacy, Sofia University, 1126 Sofia, Bulgaria

**Interests:** computational chemistry; heterogeneous catalysis; nanomaterials; computational materials science; molecular modeling; reaction mechanism; organic chemistry; drug delivery systems



**Prof. Dr. M. Esmail Alikhani**

**Website** (<https://www.monaris.cnrs.fr/annuaire/>)

*Editorial Board Member*

Sorbonne Université, Paris, France

**Interests:** topological and orbital description of chemical bonding; AIM, ELF, and NBO; theoretical modeling of non-covalent molecular complexes (hydrogen bonding); methodological study and applications; theoretical modeling of transition-metal containing molecular complexes: non-dynamic correlation and electronic structure



**Prof. Dr. Cosimo Damiano Altomare** (<https://sciprofiles.com/profile/161024>)

**Website** (<https://persone.ict.uniba.it/rubrica/cosimodamiano.altomare>)

*Editorial Board Member*

Department of Pharmacy-Drug Sciences, University of Bari, Bari, Italy

**Interests:** organic and medicinal chemistry of medium-sized azaheterocyclic compounds; design and synthesis of multitarget-directed ligands (LTDLs) for treating Alzheimer's disease and other neurodegeneration syndromes; design and synthesis of new oral anticoagulants (NOACs); physicochemical parametrization in ADMET studies; computational chemistry and three-dimensional quantitative structure–activity relationships (3D-QSARs)

**Special Issues, Collections and Topics in MDPI journals**



**Prof. Dr. Valeria Amendola** (<https://sciprofiles.com/profile/524377>)

**Website** (<http://chimica.unipv.eu/site/home/persone/scheda700003443.html>)

*Editorial Board Member*

Department of Chemistry, Università di Pavia, Viale Taramelli, 12-27100 Pavia, Italy

**Interests:** supramolecular chemistry; molecular recognition; chemosensing; molecular cages and containers; self-assembly; molecular machines

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**Prof. Dr. Arturo Anadón** (<https://sciprofiles.com/profile/2255426>)

**Website** ([https://www.researchgate.net/profile/Arturo\\_Anadon2](https://www.researchgate.net/profile/Arturo_Anadon2))

*Editorial Board Member*

Department of Toxicology and Pharmacology, Complutense University of Madrid, Madrid, Spain

**Interests:** pharmacokinetics; toxicokinetics; pharmacodynamics; toxicodynamics; therapy; toxicology; risk assessment; public health

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**Prof. Dr. Paula B. Andrade** (<https://sciprofiles.com/profile/3977>)

**Website** ([https://sigarra.up.pt/ffup/en/func\\_geral.formview?p\\_codigo=230912](https://sigarra.up.pt/ffup/en/func_geral.formview?p_codigo=230912))

*Editorial Board Member*

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REQUIMTE/LAQV, Laboratory of Pharmacognosy, Faculty of Pharmacy, University of Porto, Rua de Jorge Viterbo Ferreira 228, 4050-313 Porto, Portugal

**Interests:** metabolite profiling of natural matrices; natural agents for inflammation; neurodegenerative disorders

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**Dr. Marco Anni** (<https://sciprofiles.com/profile/494187>)

**Website** (<http://www.marco.anni.unisalento.it/CVengl.htm>)

*Editorial Board Member*

Dipartimento di Matematica e Fisica Ennio de Giorgi, Università del Salento, 73100 Lecce, Italy

**Interests:** conjugated molecules; lead halide perovskites; amplified spontaneous emission; confocal spectroscopy

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**Prof. Dr. Yitzhak Apeloig** (<https://sciprofiles.com/profile/10679>)

**Website** (<https://rbi.technion.ac.il/node/262>)

*Editorial Board Member*

Distinguished University Professor, past president of the Technion- Israel Institute of Technology, Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa 32000, Israel

**Interests:** organosilicon chemistry; in particular compounds with multiple bonds; organic reaction mechanisms; computational chemistry



**Prof. Dr. Eugenio Aprea** (<https://sciprofiles.com/profile/87680>)

**Website** (<https://webapps.unitn.it/du/en/Persona/PER0000552/Curriculum>)

*Editorial Board Member*

Center Agriculture Food Environment, University of Trento/Fondazione Edmund Mach, Via E. Mach, 1 - 38010 S. Michele all'Adige (TN), Italy

**Interests:** gas chromatography; mass spectrometry; physical and chemical properties of food and relationship with human sensory perception; sensory analysis

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**Dr. Maria Carla Aragoni** (<https://sciprofiles.com/profile/1016607>)

**Website** ([http://www.researchgate.net/profile/Maria\\_Aragoni](http://www.researchgate.net/profile/Maria_Aragoni))

*Editorial Board Member*

Department of Chemical and Geological Science, Cittadella Universitaria, 09042 Monserrato - Cagliari, Italy

**Interests:** supramolecular chemistry; crystal engineering; polypyridyl donors; solid state chemistry; chalcogen donors; halogens; coordination chemistry; d8 metal ions; optical properties; structure-property relationship

**Prof. Dr. Didier Astruc** (<https://sciprofiles.com/profile/148215>)

★ (<https://clarivate.com/highly-cited-researchers/2022/>) **Website** (<http://astruc.didier.free.fr/welcome.htm>)

*Editorial Board Member*

ISM, UMR CNRS 5255, University of Bordeaux, 351 Cours de la Libération, 33405 Talence, CEDEX, France

**Interests:** nanomaterials; functional Au and other transition metal nanoparticles; targeted drug delivery; taxanes; sensors; dendrimers; polymers; catalysis; redox processes

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**Prof. Dr. Atanas G. Atanasov** (<https://sciprofiles.com/profile/388755>)

★ (<https://recognition.webofscience.com/awards/highly-cited/2021/>) **Website** (<https://inpst.net/contact/>)

*Editorial Board Member*

1. Ludwig Boltzmann Institute for Digital Health and Patient Safety, Medical University of Vienna, Spitalgasse 23, 1090 Vienna, Austria

2. Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences, Jastrzebiec, 05-552 Magdalenka, Poland

**Interests:** natural products

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**Prof. Dr. Pierre Audebert** (<https://sciprofiles.com/profile/176000>)  
**Website** (<http://www.iufrance.fr/les-membres-de-liuf/membre/1178-pierre-audebert.html>)

*Editorial Board Member*

IUF honorary member, Laboratoire Photophysique et Photochimie Supramoléculaires et Macromoléculaires, Cachan, France

**Interests:** organic heterocyclic chemistry (polyazaaromatics); tetrazines; electrochemistry; NLO; sol-gel chemistry; nanomaterials; fluorescence; perovskites

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**Prof. Dr. Eugene Babaev** (<https://sciprofiles.com/profile/10846>)

**Website** (<http://www.chem.msu.ru/eng/misc/babaev/>)

*Editorial Board Member*

Chemistry Department, Moscow State University, GSP-3, 119991 Moscow, Russia

**Interests:** heterocyclic chemistry; periodic table

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**Dr. Alejandro Baeza** (<https://sciprofiles.com/profile/566910>)

**Website** (<http://www.organicnanotechnology.com/>)

*Editorial Board Member*

Materials and Aerospace Production Department, Polymer Materials Research Group, 28040 Madrid, Spain

**Interests:** nanomedicine; stimuli-responsive drug nanocarriers; nano-oncology; nanomotors for clinical diagnosis; nanomaterials; development of targeting moieties based on synthetic small molecules for antitumoral therapy; protein encapsulation; polymeric nanocapsules for protein delivery in medicine; nanorobots

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**Prof. Dr. Elena G. Bagryanskaya** (<https://sciprofiles.com/profile/624960>)

**Website** (<http://web.nioch.nsc.ru/nioch/en/institute-nav/director>)

*Editorial Board Member*

N.N.Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS, Pr. Lavrentieva 9, 630090 Novosibirsk, Russia

**Interests:** pulse dipole EPR; nitroxide radicals; triarylmethyl radicals; NMR; DNP; electron spin relaxation; nitroxide-mediated radical polymerization; spin probes and spin labels; supramolecular complexes; biopolymers

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**Dr. Amay J. Bandodkar** (<https://sciprofiles.com/profile/209669>)

**Website** (<https://clarivate.com/highly-cited-researchers/2022/>) **Website** (<https://research.ece.ncsu.edu/bandodkargroup/>)

*Editorial Board Member*

Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27605, USA

**Interests:** wearable sensors, energy harvesters, batteries, hybrid manufacturing, soft electronics

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**Dr. Bimal K. Banik** (<https://sciprofiles.com/profile/845841>)

**Website** (<https://www.scientificarchives.com/editor/bimal-k.-banik>)

*Editorial Board Member*

Department of Mathematics and Natural Sciences, College of Sciences and Human Studies, Deanship of Research Development, Prince Mohammad Bin Fahd University, P. O. Box 1664, Al Khobar 31952, Kingdom of Saudi Arabia

**Interests:** organic synthesis; medicinal chemistry; beta lactams; polyaromatic compounds; catalysis; microwave-induced reactions; synthetic methods

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**Dr. Joseph J. Barchi Jr.** (<https://sciprofiles.com/profile/23724>)

**Website** ([https://www.ccr.nc.nih.gov/ChemicalBiologyLaboratory/joseph-j-barchi#qt-staff\\_profile\\_tabs-ui-tabs6](https://www.ccr.nc.nih.gov/ChemicalBiologyLaboratory/joseph-j-barchi#qt-staff_profile_tabs-ui-tabs6))

*Editorial Board Member*

Chemical Biology Laboratory, Center for Cancer Research National Cancer Institute, Building 376, Room 209, Frederick, MD, USA

**Interests:** synthetic organic chemistry; carbohydrate/glycopeptide chemistry; small molecule nmr spectroscopy; glycoimmunology



**Prof. Dr. David Barker** (<https://sciprofiles.com/profile/127127>)

**Website** (<https://unidirectory.auckland.ac.nz/profile/d-barker>)

*Editorial Board Member*

School of Chemical Sciences, University of Auckland, Private Bag 92019, Auckland, New Zealand

**Interests:** medicinal chemistry; natural products total synthesis; asymmetric synthesis; bioactive natural products; polymeric materials; anticancer treatments; synthesis from biowaste-derived materials; isotopically labelled materials

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**Prof. Dr. Ana Barros** (<https://sciprofiles.com/profile/84790>)

**Website** (<https://orcid.org/0000-0001-5834-6141>)

*Editorial Board Member*

1. Centre for the Research and Technology of Agro-Environmental and Biological Sciences (CITAB), Institute for Innovation, Capacity Building and Sustainability of Agri-Food Production (Inov4Agro), University of Trás-os-Montes and Alto Douro (UTAD), Quinta de Prados, 5000-801 Vila Real, Portugal  
2. Mesosystem Investigação & Investimentos by Spinpark, Barco, 4805-017 Guimarães, Portugal

**Interests:** by-products; bioactive compounds; circular economy; industrial symbiosis; HPLC-MS; spectroscopic analysis

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**Dr. Danila Barskiy** (<https://sciprofiles.com/profile/1965497>)

**Website** ([https://www.uni-mainz.de/presse/aktuell/12130\\_ENG\\_HTML.php](https://www.uni-mainz.de/presse/aktuell/12130_ENG_HTML.php))

*Editorial Board Member*

1. GSI Helmholtzzentrum für Schwerionenforschung, Helmholtz-Institut Mainz, 55128 Mainz, Germany

2. Institut für Physik, Arbeitsgruppe Quanten-, Atom- und Neutronenphysik (QUANTUM), Johannes Gutenberg-Universität Mainz, 55128 Mainz, Germany

**Interests:** NMR; MRI; hyperpolarization; nuclear spin dynamics; chemical kinetics; catalysis

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**Prof. Dr. Martin Baumgarten** (<https://sciprofiles.com/profile/203983>)

**Website** (<http://www2.mpij-mainz.mpg.de/~baumgart/>)

*Editorial Board Member*

Max Planck Institute for Polymer Research, Mainz, Germany

**Interests:** conjugated polymers; OLEDs; TADF; spin in organics; spin networks; high spin molecules; organic bose einstein condensates

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**Prof. Dr. Carla Bazzicalupi** (<https://sciprofiles.com/profile/231677>)

**Website** (<https://www.unifi.it/p-doc2-2017-200010-B-3f2a3d3036272e-0.html>)

*Editorial Board Member*

Department of Chemistry, University of Florence, Via della Lastruccia, 3-13 - 50019 Sesto Fiorentino, Florence, Italy

**Interests:** X-ray diffraction; molecular modelling techniques; supramolecular chemistry; weak interactions; coordination of environmental and/or biologically relevant species; non-B DNA foldings; DNA G-quadruplexes

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**Prof. Dr. Dimitrios Bikiaris** (<https://sciprofiles.com/profile/8950>)

**Website1** ([https://www.researchgate.net/profile/Dimitrios\\_Bikiaris](https://www.researchgate.net/profile/Dimitrios_Bikiaris)) **Website2** (<https://bikiarislab.wixsite.com/bikiarislab>)

*Editorial Board Member*

Laboratory of Polymer Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR 54124 Thessaloniki, Greece

**Interests:** synthesis and characterization of polymers; development of biobased polymers; biodegradable polymers; polymer composites and nanocomposites; synthesis and characterization of copolymers; polymer blends; recycling of polymers with various techniques; enzymatic hydrolysis studies; modification of natural polymers; polymer for wastewater treatment pollutant removal; polymers for tissue engineering and drug delivery



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**Interests:** synthesis and characterization of polymers; development of biobased polymers; biodegradable polymers; polymer composites and nanocomposites; synthesis and characterization of copolymers; polymer blends; recycling of polymers with various techniques; enzymatic hydrolysis studies; modification of natural polymers; polymer for wastewater treatment pollutant removal; polymers for tissue engineering and drug delivery

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polymer solid dispersions; drug targeting; drug nanoencapsulation and microencapsulation

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**Prof. Dr. Roberto Bini**

**Website** (<https://www.unifi.it/p-doc2-2015-0-A-2b33382e3a29-0.html>)

*Editorial Board Member*

LENS European Laboratory for Non-Linear Spectroscopy; Dipartimento di Chimica "Ugo Schiff" dell'Università degli Studi di Firenze, 50019 Sesto Fiorentino FI, Italy

**Interests:** molecular systems

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**Dr. Geir Bjerklund** (<https://sciprofiles.com/profile/223575>)

**Website** (<http://www.conem.org/people/bjorklundbio/>)

*Editorial Board Member*

Council for Nutritional and Environmental Medicine (CONEM), Mo i Rana, Norway

**Interests:** biofactors; vitamins; minerals; trace elements; transition metals; toxic metals; metal interaction; chelating agents; chelation therapy; neurodegeneration; autism spectrum disorder; nutrition; nutritional biochemistry; peptides; polyphenols

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**Prof. Dr. Lluís Blancafort**

**Website** (<http://stark.udg.edu/wordpress/portfolio/lluís-blancafort/>)

*Editorial Board Member*

Institut de Química Computacional i Catàlisi and Departament de Química, Universitat de Girona, Facultat de Ciències, C/M. Aurèlia Campany 69, 17003 Girona, Spain

**Interests:** computational photochemistry; excited-state reactivity; photostability; dynamics; conical intersections

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**Prof. Dr. Robert Bogdanowicz** (<https://sciprofiles.com/profile/629179>)

**Website** (<https://www.diamondized.eu/>)

*Editorial Board Member*

Department of Metrology and Optoelectronics, Faculty of Electronics, Telecommunications and Informatics, Gdansk University of Technology, 80-233 Gdansk, Poland

**Interests:** CVD diamond; nanodiamond; doped nanocarbons; electrochemical sensors

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**Dr. Klemen Bohinc** (<https://sciprofiles.com/profile/198974>)

**Website** (<http://physics.fe.uni-lj.si/members/klemenb/klemenb.htm>)

*Editorial Board Member*

Faculty of Health Sciences, University of Ljubljana, 1000 Ljubljana, Slovenia

**Interests:** electrostatics and statistical physics of biological macromolecules and membranes; charge determination of nanoparticles; microbial adhesion to material surfaces; separation chemistry

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**Prof. Dr. Nadezhda A. Bokach** (<https://sciprofiles.com/profile/664363>)

**Website1** (<http://en-chem.spbu.ru/index.php/institute/people/102-bokach-nadezhda-a>)

**Website2** (<http://en-chem.spbu.ru>)

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*Editorial Board Member*

Saint Petersburg State University, Saint Petersburg (ex Leningrad), Russia

**Interests:** ligand reactivity; metal-involving organic synthesis; coordination chemistry; organometallic chemistry; weak nonvalent interactions

**Dr. Werner Bonrath** (<https://sciprofiles.com/profile/10723>)

**Website** ([https://www.researchgate.net/profile/Werner\\_Bonrath](https://www.researchgate.net/profile/Werner_Bonrath))

*Editorial Board Member*

DSM Nutritional Products, Research and Development, CH-4002 Basel, Switzerland

**Interests:** catalysis (general); vitamins (general); chemistry under non-classical conditions (ionic liquids; supercritical fluids; ultrasound and microwaves)

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**Prof. Dr. Nicola Borbone** (<https://sciprofiles.com/profile/144836>)

**Website** (<https://sites.google.com/view/nicola-borbone>)

*Editorial Board Member*

HybridBioSystems Lab, Department of Pharmacy, University of Naples Federico II, Via Domenico Montesano 49, 80131 Naples, Italy

**Interests:** nucleic acid chemistry and biology; DNA quadruplexes formed by telomers, aptamers and synthetic G-rich oligonucleotides; chemical-physical characterization of soft-interface; hybrid interfaces; therapeutics; diagnostics

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**Prof. Dr. Laszlo G. Boros** (<https://sciprofiles.com/profile/292174>)

**Website** (<https://www.laszlogboros.com>)

*Editorial Board Member*

Division of Endocrinology and Metabolism, Department of Pediatrics, University of California Los Angeles, The Clinical & Translational Research and Lundquist Institutes at the Harbor-UCLA Medical Center, and the Center for Deuterium Depletion, 1124 West Carson Street, Torrance, CA 90502, USA

**Interests:** medicinal biochemistry; deutenomics; deuterium depletion; nutrition

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**Prof. Dr. Cyrille Boyer** (<https://sciprofiles.com/profile/92926>)

★ (<https://clarivate.com/highly-cited-researchers/2022>) **Website** (<https://www.boyerlab.com/>)

*Editorial Board Member*

School of Chemical Engineering, University of New South Wales (UNSW) Australia, Sydney, NSW 2052, Australia

**Interests:** photoredox chemistry; photopolymerization; functional polymers; nanomedicine

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**Dr. Mihai Brebu** (<https://sciprofiles.com/profile/262795>)

**Website** (<https://icmpp.ro/laboratories/l8/g2/team.php>)

*Editorial Board Member*

Laboratory of Physical Chemistry of Polymers, Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania

**Interests:** polymer degradation and stability; kinetics and mechanisms of thermal degradation; treatment/valorisation of polymer waste; removal of heteroatoms from pyrolysis oils; use of natural compounds (e.g. essential/vegetal oils) to improve the antimicrobial/antioxidant properties of polymeric materials (e.g. food packaging)

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**Prof. Dr. Vladimir Bregadze** (<https://sciprofiles.com/profile/165888>)

**Website** (<https://neos.ac.ru/en/employees/1/bregadze>)

*Editorial Board Member*

ANSCS Research Institute of Organic Chemistry of the Russian Academy of Sciences, Moscow, Russia

**Interests:** synthesis of boranes and their derivatives of main group metals, metallocarboranes of transition metals, especially carboranes and their derivatives of main group metals, metallacarboranes of transition metals, study of their reactivity and application in medicine (antitumour activity, boron-neutron capture therapy) and for design of materials; development of new synthetic methods for organic and inorganic derivatives of gallium, indium, thallium, arsenic, selenium and tellurium, study of their reactivity and application as

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precursors for preparation of semi-conductor materials by organometallic chemical vapor deposition

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**Prof. Dr. Wendy A Brown** (<https://sciprofiles.com/profile/1058609>)

**Website** (<http://www.sussex.ac.uk/lifesci/people/chemistry/person/316874>)

*Editorial Board Member*

Division of Chemistry, University of Sussex, Falmer, Brighton BN1 9QJ, UK

**Interests:** astrochemistry; infrared spectroscopy; physical chemistry; surface science; TPD



**Dr. Giovanna Bruni** (<https://sciprofiles.com/profile/158252>)

**Website** (<http://chimica.unipv.eu/site/home/persona/scheda700003455.html>)

*Editorial Board Member*

Università degli Studi di Pavia, Pavia, Italy

**Interests:** polymorphism of drugs; drug-excipient compatibility; pharmaceutical cocrystals; solid-liquid phase diagrams



**Prof. Dr. Bogumil E. Brycki** (<https://sciprofiles.com/profile/423>)

**Website** (<https://chemia.amu.edu.pl/wydzial/struktura-wydzialu/profesorowie-emerytowani/bogumil-brycki>)

*Editorial Board Member*

Department of Bioactive Compounds, Faculty of Chemistry, Adam Mickiewicz University, Uniwersytetu Poznańskiego 8, 61-614 Poznan, Poland

**Interests:** organic synthesis; molecular interactions; surface chemistry; microbiocide chemistry; smart materials; corrosion inhibition; environmental chemistry

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**Prof. Dr. Steven Bull**

**Website** ([http://www.bath.ac.uk/chemistry/contacts/academics/steve\\_bull/](http://www.bath.ac.uk/chemistry/contacts/academics/steve_bull/))

*Editorial Board Member*

Head of Organic Chemistry, Department of Chemistry, University of Bath, Bath BA27AY, UK

**Interests:** organic synthesis; novel synthetic transformations; catalysis; chemical sensing and medicinal chemistry

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**Prof. Dr. Tzi Bun NG** (<https://sciprofiles.com/profile/14326>)

**Website** (<https://researchdb.hsu.edu.hk/view/people/11724>)

*Editorial Board Member*

School of Biomedical Sciences, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, China

**Interests:** biomolecules of mammalian; plant and microbial origins with antipathogenic activities including lectins; antimicrobial peptides; and anticancer proteins and peptides

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**Prof. Dr. Richard A. Bunce** (<https://sciprofiles.com/profile/63392>)

**Website** (<http://chemistry.okstate.edu/bios/348-faculty-member-bio-bunce>)

*Editorial Board Member*

Department of Chemistry, Oklahoma State University, Stillwater, OK, USA

**Interests:** new synthetic methodology; heterocycles; antibacterial agents; anticancer agents; medicinal chemistry

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**Prof. Dr. Gioacchino Calapai** (<https://sciprofiles.com/profile/508523>)

**Website** (<https://archivio.unime.it/it/persona/gioacchino-calapai/curriculum>)

*Editorial Board Member*

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Department of Biomedical and Dental Sciences and Morphological and Functional Imaging, University of Messina, 98122 Messina, ME, Italy

**Interests:** herbal medicine; cannabinoids; cannabis; pain; clinical pharmacology; nutraceuticals

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**Prof. Dr. Moisés Canle** (<https://sciprofiles.com/profile/372083>)

**Website** (<http://pdi.udc.es/en/File/Pdi/4A48E>)

*Editorial Board Member*

Grupo ReactI, Departamento de Química, Facultade de Ciencias & CICA, Universidade da Coruña, E-15071 A Coruña, Spain

**Interests:** photocatalysis; photochemistry; green chemistry; reaction mechanisms

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**Prof. Dr. Raffaele Capasso** (<https://sciprofiles.com/profile/332691>)

**Website** (<https://www.docenti.unina.it/#/professor/5241464641454c454341504153534f43505352464c3733433038463833394a/riferimenti>)

*Editorial Board Member*

Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy

**Interests:** pharmacology; natural products; neurotransmission; behavioral pharmacology; experimental pharmacology; preclinical pharmacology; CB1 receptor;

PPARs; cannabinoids; endocannabinoids; CB2 receptor

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**Dr. Giuseppina Pinuccia Cerrato** (<https://sciprofiles.com/profile/422738>)

**Website** (<https://www.chimica.unito.it/do/docenti.pl/alias?giuseppina.cerrato#profilo>)

*Editorial Board Member*

Associate Professor, Department of Chemistry, Università degli Studi di Torino, Via Pietro Giuria, 7, 10125 Torino, Italy

**Interests:** oxide-based materials for (photo)catalysis; standard and innovative synthetic procedures; physicochemical characterization

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**Dr. Pierfrancesco Cerruti** (<https://sciprofiles.com/profile/227340>)

*Editorial Board Member*

Institute for Polymers, Composites and Biomaterials (IPCB)—CNR, Via Campi Flegrei, 34, 80078 Pozzuoli, Italy

**Interests:** sustainable polymers; blends and composites; stimulus-responsive micro and nanostructured polymer materials

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**Prof. Dr. Federico Cesano** (<https://sciprofiles.com/profile/255037>)

**Website 1** (<https://www.chimica.unito.it/do/docenti.pl/alias?federico.cesano#profilo>) **Website 2** (<https://publons.com/researcher/562638/federico-cesano/>)

*Editorial Board Member*

Department of Chemistry, Turin University, 10125 Torino, Italy

**Interests:** composite/hybrid materials and nanomaterials; surface science; microscopies and spectroscopies; catalysis and photocatalysis

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**Prof. Dr. Long Y Chiang** (<https://sciprofiles.com/profile/24843>)

**Website** (<https://www.uml.edu/Sciences/chemistry/faculty/chiang-long.aspx>)

**Website 2** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 3** (<https://publons.com/researcher/562638/federico-cesano/>)

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**Website 9** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 10** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 11** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 12** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 13** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 14** (<https://publons.com/researcher/562638/federico-cesano/>)

**Website 15** (<https://publons.com/researcher/562638/federico-cesano/>)

**Interests:** nonlinear photonic C60-chromophore nanoconjugates; core-shell C60-DPAF nanomaterials as photoswitching dielectrics; targeting C70-meso-chlorin as aPDI nanomedicine

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**Dr. Alessandro Chiasera** (<https://sciprofiles.com/profile/357539>)

**Website** (<https://www.tn.infn.cnr.it/people/chiasera-alessandro>)

*Editorial Board Member*

Consiglio Nazionale delle Ricerche, Rome, Italy

**Interests:** photonic; RF sputtering; luminescence; optical materials; rare earths; photonic crystals; waveguides; glasses; nanostructured materials

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**Dr. Maria Giovanna Chini** (<https://sciprofiles.com/profile/1526455>)

**Website** (<http://docenti.unimol.it/index.php?u=m.chini>)

*Editorial Board Member*

Department of Bioscience and Territory, University of Molise, C.da Fonte Lappone, 86090 Pesche (IS), Italy

**Interests:** drug discovery; drug repurposing; in silico methodologies; structural elucidation; NMR

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**Dr. Salvatore Chirumbolo** (<https://sciprofiles.com/profile/216521>)

**Website** (<https://www.dimi.univr.it/?ent=persona&id=4440&lang=en>)

*Editorial Board Member*

Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Verona, Italy

**Interests:** nutrition; autism spectrum disorder; polyphenols; adipose tissue physiology; chemical biochemistry; allergy diagnosis

**Prof. Dr. Lars Porskjær Christensen**

**Website** (<https://portal.findresearcher.sdu.dk/en/persons/lpc>)

*Editorial Board Member*

Faculty of Engineering, Department of Green Technology (IGT), University of Southern Denmark (SDU), Odense, Denmark

**Interests:** natural products chemistry; food chemistry; bioactive natural products; pharmaceuticals; drug development; metabolomics; pharmacokinetics;

mechanisms of action; cancer; inflammation; type 2 diabetes.



**Prof. Dr. Man-Kyo Chung** (<https://sciprofiles.com/profile/204079>)

**Website** (<https://www.dental.umaryland.edu/neuralpain/faculty-and-staff/dr-chung/>)

*Editorial Board Member*

Department of Neural and Pain Sciences, School of Dentistry, Program in Neuroscience, Center to Advance Chronic Pain Research, University of Maryland, Baltimore, MD, USA

**Interests:** ion channels; pain; electrophysiology; nociceptors; transient receptor potential ion channels, trigeminal ganglia

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**Prof. Dr. André Chwalibog** (<https://sciprofiles.com/profile/49945>)

**Website** ([https://research.ku.dk/search/result?pure=en%2Fpersons%2Fandre-chwalibog\(58d32614-fd52-4a13-9d64-99976fdb456e\)%2Fcv.html](https://research.ku.dk/search/result?pure=en%2Fpersons%2Fandre-chwalibog(58d32614-fd52-4a13-9d64-99976fdb456e)%2Fcv.html))

*Editorial Board Member*

Faculty of Health and Medical Sciences, University of Copenhagen, Groennegaardsvej 3, 1870 Frederiksberg, Denmark

**Interests:** energy and nutrient metabolism under different genetic and environmental conditions, during growth, reproduction and lactation; evaluation of energy and protein utilization and requirements; feed evaluation; mathematical models of nutrient and energy metabolism; substrate oxidation and utilization for gluconeogenesis, lipogenesis and protein turnover; metabolic programming; application of nanotechnology in nutrition and tumour therapy; investigations have been performed at cellular, tissue and whole body levels, both in vitro and in vivo

**Dr. Boiko Cohen** (<https://sciprofiles.com/profile/588041>)

**Website** (<https://www.uclm.es/grupos/fmg/members>)

*Editorial Board Member*

Departamento de Química Física, Facultad de Ciencias Ambientales y Bioquímica, and INAMOL, Universidad de Castilla-La Mancha, Avenida Carlos III, S/N, 45071 Toledo, Spain

**Interests:** optical microscopes; pulsed lasers; femtosecond laser; single molecule microscopy; ultrafast dynamics; confinement effect

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**Prof. Dr. Cesar M. Compadre** (<https://sciprofiles.com/profile/299068>)

**Website** (<https://www.mdpi.com/data/cv-compadre-2018-.pdf>)

*Editorial Board Member*

Department of Pharmaceutical Sciences, University of Arkansas for Medical Sciences, Little Rock, AR 72205, USA

**Interests:** natural product chemistry; molecular modeling computer aided; structure-activity relationship; anti-cancer compounds radiationprotection radiationmitigation; antioxidants

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**Prof. Dr. Edwin Charles Constable** (<https://sciprofiles.com/profile/10992>)

**Website** (<https://constable.chemie.unibas.ch/en/group/edwin-constable/>)

*Editorial Board Member*

Department of Chemistry, University of Basel, Building 1096, Mattenstrasse 24a, CH-4058 Basel, Switzerland

**Interests:** light harvesting using inorganic coordination complexes as dyes in dye-sensitized solar cells (DSCs); development of emissive complexes for application in light-emitting electrochemical cells (LECs); water splitting and water oxidation catalysts; functional coordination polymers and networks

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**Prof. Dr. Valeria Costantino** (<https://sciprofiles.com/profile/25776>)

**Website** (<https://www.docenti.unina.it/#!/professor/56414c45524941434f5354414e54494e4f435354564c523636443533463833394c/curriculum>)

*Editorial Board Member*

Department of Pharmacy, University of Naples Federico II, Via Montesano 149, 80131 Naples, Italy

**Interests:** sustainable exploitation and management of seas; marine natural products, isolation, and stereostructural elucidation of new lead compounds in antimicrobial and anticancer drug discovery; QQ and the QS system in bacteria symbiotic with sponges; cyanobacteria as source of novel lead compounds and toxins

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**Prof. Dr. Francois Couderc** (<https://sciprofiles.com/profile/880194>)

**Website** ([http://guiderecherche.univ-toulouse.fr/4DCGI/Entite\\_C\\_0092\\_10068](http://guiderecherche.univ-toulouse.fr/4DCGI/Entite_C_0092_10068))

*Editorial Board Member*

Laboratoire des IMRCP, Université Paul Sabatier, Université de Toulouse, 31062 Toulouse, France

**Interests:** mass spectrometry of biological molecules; quantitative analytical biochemistry; trace analysis

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**Prof. Dr. Francesco Crea** (<https://sciprofiles.com/profile/937989>)

**Website** (<https://archivio.unime.it/it/persona/francesco-crea>)

*Editorial Board Member*

Dipartimento di Scienze Chimiche, Università di Messina, Viale Ferdinando Stagno d'Alcontres, 31, I-98166 Messina (Vill. S. Agata), Italy

**Interests:** speciation of polyelectrolytes; acid-base properties and complexing ability towards different classes of organic and inorganic ligands; modelling in HPLC; modelling of separation of linear and branched polyamines by IC chromatography; speciation of UO22+ in different ionic media; interaction with carboxylic acids at low molecular weight and formation of hydrolytic hetero-metal species; determination of the solubility and activity coefficients of different classes of organic ligands in different ionic media

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**Dr. Manuela Curcio** (<https://sciprofiles.com/profile/23255>)

**Website** ([https://www2.unical.it/portale/struttura/dipartimento/2320/dssn/areastudenti/avvisi\\_docenti/curcimanuela/#](https://www2.unical.it/portale/struttura/dipartimento/2320/dssn/areastudenti/avvisi_docenti/curcimanuela/#))

*Editorial Board Member*

Department of Pharmacy, Health and Nutritional Sciences, University of Calabria, 87036 Rende, Italy

**Interests:** design, synthesis and characterization of polymer nanoparticles and hydrogels; synthesis and characterization of stimuli-responsive hydrogels

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nanoparticle systems for controlled drug release  
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**Prof. Dr. Salvatore Cuzzocrea** (<https://sciprofiles.com/profile/193752>)  
**Website** (<http://www.gasotransmitters.eu/index.php/the-action/management-committee/salvatore-cuzzocrea.html>)

*Editorial Board Member*  
Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy  
**Interests:** physiopathology of ischemia and reperfusion (myocardium, intestine, brain); physiopathology of Spinal Cord Injury; physiopathology of Alzheimer and Parkinson Diseases; physiopathology of acute and chronic inflammatory processes in: rheumatoid arthritis, pulmonary fibrosis, pleurisy, colitis; neuroinflammatory and neurodegenerative diseases; endocannabinoids and natural substances  
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**Prof. Dr. Marek Cypryk** (<https://sciprofiles.com/profile/403844>)  
**Website** (<https://www.cbmm.lodz.pl/pracownicy/marek-cypryk/>)

*Editorial Board Member*  
Centre of Molecular and Macromolecular Studies of Polish Academy of Sciences, Lodz, Poland  
**Interests:** organosilicon polymer chemistry; reaction mechanisms in organometallic chemistry; computational chemistry; molecular modeling  
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**Prof. Dr. Angelo Antonio D'Archivio** (<https://sciprofiles.com/profile/463541>)  
**Website** ([https://dsfc.univaq.it/it/?option=com\\_sppagebuilder&view=page&id=356](https://dsfc.univaq.it/it/?option=com_sppagebuilder&view=page&id=356))

*Editorial Board Member*  
Department of Physical and Chemical Sciences, University of L'Aquila, Via Vetoio Coppito, 67100 L'Aquila, Italy  
**Interests:** chromatographic analysis; application of chemometrics to data analysis and optimization; quantitative structure–property relationship methodology; food analysis; food traceability  
**Special Issues, Collections and Topics in MDPI journals**



**Dr. Giovanni D'Orazio** (<https://sciprofiles.com/profile/682588>)  
**Website** ([http://www.imc.cnr.it/wp\\_en/giovanni-dorazio/](http://www.imc.cnr.it/wp_en/giovanni-dorazio/))

*Editorial Board Member*  
Cnr- Consiglio Nazionale delle Ricerche Istituto per i Sistemi Biologici (ISB), Rome, Italy  
**Interests:** HPLC; nano-LC; capillary electrophoresis; electrochromatography; mass spectrometry; micro extraction; sample preparation; chiral separations; food analysis; pharmaceutical analysis  
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**Prof. Dr. Samuel Dagorne** (<https://sciprofiles.com/profile/364880>)  
**Website** (<http://institut-chimie.unistra.fr/equipes-de-recherche/srco-synthese-reactivite-et-catalyse-organometaliques/>)

*Editorial Board Member*  
Institut de Chimie de Strasbourg, CNRS-Université de Strasbourg, 1 Rue Blaise Pascal, 67000 Strasbourg, France  
**Interests:** organometallic complexes; homogeneous catalysis; polymerization; oxophilic and electrophilic metal species  
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**Prof. Dr. Albert Dahan** (<https://sciprofiles.com/profile/1343070>)  
**Website** (<https://www.universiteitleiden.nl/en/staff/profiles/albertdahan#tab-2>)

*Editorial Board Member*  
Leiden University Medical Center - LUMC, Albinusdreef 2, 2333 ZA Leiden, The Netherlands  
**Interests:** anesthesiology; opioids

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**Dr. Martin Danaher** (<https://sciprofiles.com/profile/95522>)  
**Website** (<https://www.teagasc.ie/contact/staff-directory/d/martin-danaher/>)

*Editorial Board Member*  
Principal Research Officer, Head of Residues Laboratory, Food Safety Department, Teagasc Food Research Centre, Ashtown, Dublin 15, Ireland  
**Interests:** chromatographic separations; sample purification; mass spectrometry; biosensors and immunoassays; residue analysis  
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**Dr. Piyali Dasgupta** (<https://sciprofiles.com/profile/2214520>)  
**Website** (<https://cesom.marshall.edu/research/office-of-research-and-graduate-education/research-faculty/biomedical-sciences/dasgupta/>)

*Editorial Board Member*  
Department of Biomedical Sciences, Joan C Edwards School of Medicine, Marshall University, Huntington, WV 25705, USA  
**Interests:** lung cancer; nutrition; capsaicin; nicotine; angiogenesis; metastasis; anti-cancer drug discovery

**Dr. Theodore K. Dayie** (<https://sciprofiles.com/profile/446840>)  
**Website** (<http://www2.chem.umd.edu/groups/dayie/>)

*Editorial Board Member*  
Department of Chemistry and Biochemistry, Center for Biomolecular Structure and Organization, University of Maryland, College Park, MD, USA  
**Interests:** NMR; SAXS; RNA; riboswitches; structural biology and dynamics; RNA-drug interactions; chemical-enzymatic labeling of nucleotides



**Prof. Dr. Vincenzo De Feo** (<https://sciprofiles.com/profile/697>)  
**Website** (<https://docenti.unisa.it/001592/home>)

*Editorial Board Member*  
Department of Pharmacy, University of Salerno, Via Giovanni Paolo II, 132, 84084 Fisciano, Italy  
**Interests:** herbs; essential oils; natural extracts; cytotoxicity; antimicrobial; biofilm  
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**Prof. Dr. Marina DellaGreca** (<https://sciprofiles.com/profile/690275>)  
**Website** (<https://www.docenti.unina.it/marina.dellagreca>)

*Editorial Board Member*  
Department of Chemical Sciences, University of Naples Federico II, Complesso Universitario Monte S. Angelo, 80126 Naples, Italy  
**Interests:** isolation and structure elucidation of natural compounds from microorganisms and plants; synthesis and derivatization of natural products; chromatographic techniques; analytical and spectroscopic techniques  
**Special Issues, Collections and Topics in MDPI journals**



**Prof. Dr. Claude Delmas**  
**Website** (<https://www.icmcb-bordeaux.cnrs.fr/membre/delmas-claude/>)

*Editorial Board Member*  
CNRS Centre National de la Recherche Scientifique, Paris, France  
**Interests:** layered oxides and hydroxides; positive electrodes for lithium and alkaline batteries  
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**Prof. Dr. Shuiquan Deng** (<https://sciprofiles.com/profile/752308>)  
**Website** ([http://www.fjirms.ac.cn/sdeng/dsq\\_deng/](http://www.fjirms.ac.cn/sdeng/dsq_deng/))

*Editorial Board Member*  
State Key Laboratory of Structural Chemistry, Fujian Institute of Research on the Structure of Matter (FJIRSM), Chinese Academy of Sciences, Fuzhou 350002, China  
**Interests:** crystal growth; crystal structure; ferroic properties of solid materials; electronic structures theory based on first-principles calculations; many-body interactions such as electron–phonon, electron–magnon; rare-earth-based laser crystals and other luminescent materials; theory and first-principles study of photo-catalysis  
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**Prof. Dr. Ratmir Derda** (<https://sciprofiles.com/profile/10026>)  
**Website** (<https://apps.ualberta.ca/directory/person/ratmir>)

*Editorial Board Member*

University of Alberta, Edmonton, Canada

**Interests:** genetically-encoded libraries of small molecules for ligand discovery; immobilized chemical inducers of differentiation (iCID) and asymmetric cell division; diagnostics



**Prof. Dr. Eric Deslandes** (<https://sciprofiles.com/profile/2553482>)

**Website** (<https://www.iuem.univ-brest.fr/lemar/equipe/deslandes-eric/>)

*Editorial Board Member*

LEMAR UMR 6539 UBO CNRS Ifremer IRD, European Institute of Marine Studies (IUEM), Université de Bretagne Occidentale (UBO), Technopôle Brest-Iroise, Rue Dumont d'Urville, 29280 Plouzané, France

**Interests:** marines plants (seaweed and angiosperms) and their importance related to various marine ecosystems; ecophysiology, biochemistry and analysis of marines plants and the adaptations to abiotic and biotic stresses; marines plants invasives (seaweed) and the problem of conservation



**Dr. Paola Di Donato** (<https://sciprofiles.com/profile/578032>)

**Website** ([https://www.scienzeetecnologie.uniparthenope.it/docenti\\_pagina.php?id\\_nomina=23](https://www.scienzeetecnologie.uniparthenope.it/docenti_pagina.php?id_nomina=23))

*Editorial Board Member*

1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale - Isola C4, 80143 Napoli, Italy  
2. Institute of Biomolecular Chemistry, National Research Council of Italy, Via Campi Flegrei, 34, 80078 Pozzuoli (NA), Italy

**Interests:** microbial exopolysaccharides; vegetable polysaccharides; extremophilic microorganisms

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**Prof. Dr. Claudia Dragonetti** (<https://sciprofiles.com/profile/376473>)

**Website** (<https://sites.unimi.it/dacgroup/about-group/prof-claudia-dragonetti/>)

*Editorial Board Member*

Department of Chemistry, University of Milan, Milan, Italy

**Interests:** coordination complexes; luminescent compounds; nonlinear optical materials; DSSCs

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**Dr. Luisa Durães** (<https://sciprofiles.com/profile/482854>)

**Website** ([https://www.uc.pt/fctuc/deq/pessoas/docentes/luisa\\_duraes](https://www.uc.pt/fctuc/deq/pessoas/docentes/luisa_duraes))

*Editorial Board Member*

Department of Chemical Engineering, Chemical Process Engineering and Forest Products Research Centre, University of Coimbra, 3004-531 Coimbra, Portugal

**Interests:** aerogels; nanoparticles; soft-solution synthesis; environmental remediation; thermal insulation materials

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**Prof. Dr. Susan E. Ebeler** (<https://sciprofiles.com/profile/309174>)

**Website** (<https://ebeler.faculty.ucdavis.edu/>)

*Editorial Board Member*

Department of Viticulture and Enology, University of California, Davis, CA, USA

**Interests:** the development and application of analytical chemistry; techniques to study wine flavor chemistry; the physico-chemical; interactions of flavors with nonvolatile wine components

**Dr. Ian Eggleston** (<https://sciprofiles.com/profile/2213832>)

**Website** (<https://researchportal.bath.ac.uk/en/persons/ian-eggleston/>)

*Editorial Board Member*

Department of Pharmacy & Pharmacology, University of Bath, Bath BA2 7AY, UK

**Interests:** organic synthesis; peptide chemistry; medicinal chemistry; photodynamic therapy (PDT)

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**Prof. Dr. Johannes A. W. Elemans** (<https://sciprofiles.com/profile/71567>)

**Website** (<https://www.ru.nl/science/molecularnanotechnologie/people/members/dr-hans-elemans/>)

*Editorial Board Member*

Institute for Molecules and Materials, Radboud University, Heyendaalseweg 135, 6525 AJ Nijmegen, The Netherlands

**Interests:** supramolecular chemistry; (metal-)organic synthesis; porphyrins; catalysis; surface chemistry; scanning probe microscopy

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**Prof. Dr. Ramon Eritja** (<https://sciprofiles.com/profile/10026>)

**Website** (<https://www.iqac.csic.es/research/departments/surfactants-and-nanobiotechnology/nucleic-acids-chemistry/>)

*Editorial Board Member*

1. Institute for Advanced Chemistry of Catalonia (IQAC-CSIC), Jordi Girona 18-26, E-08034 Barcelona, Spain

2. Networking Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Jordi Girona 18-26, E-08034 Barcelona, Spain

**Interests:** siRNA; antisense oligonucleotides; G-quadruplex; DNA triplex; i-motif; DNA nanotechnology; gene silencing; aptamers; drug delivery; DNA; RNA; oligonucleotide synthesis

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**Prof. Dr. Francesco Paolo Fanizzi** (<https://sciprofiles.com/profile/22972>)

**Website** (<https://www.unisalento.it/scheda-utente/-/people/fp.fanizzi>)

*Editorial Board Member*

Department of Biological and Environmental Sciences and Technologies (DISTEBA), University of Salento, Lecce, Italy

**Interests:** transition metals (specially Platinum) coordination organometallic; bioinorganic chemistry; applications of high field NMR Spectroscopy in the fields of chemistry, biology, pharmaceutical and food sciences



**Prof. Dr. Pedro Fardim** (<https://sciprofiles.com/profile/1123354>)

**Website** (<https://cit.kuleuven.be/creas/people/00102157>)

*Editorial Board Member*

Department of Chemical Engineering, University of Leuven, Celestijnenlaan 200F, 3001 Leuven, Belgium

**Interests:** biomaterials; bionanohybrids; biomass engineering; biostructures; polysaccharides

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**Dr. Marinella Farré Urgell** (<https://sciprofiles.com/profile/1025583>)

**Website** (<https://www.idaea.csic.es/person/marinella-farre-urgell/>)

*Editorial Board Member*

Spanish National Research Council (CSIC), Institute of Environmental Diagnosis and Water Studies (IDAEA), Department of Environmental Chemistry, Barcelona, Spain

**Interests:** environmental analysis; food safety; contaminants of emerging concern; chromatography; high-resolution mass-spectrometry; suspected screening; immunoassays; biosensors; metabolomics; nanomaterials; micro/nanoplastics



**Prof. Dr. Gianfranco Favi** (<https://sciprofiles.com/profile/588007>)

**Website** (<https://www.uniurb.it/persone/gianfranco-favi>)

*Editorial Board Member*

School of Pharmacy, Department of Biomolecular Sciences, University of Urbino "Carlo Bo", Urbino, Italy

**Interests:** organic synthesis; synthetic methodologies; sustainable chemistry; heterocyclic chemistry; chemistry of azaalkenes; indole based molecules; cyclizations; cycloadditions; C-H activation

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**Prof. Dr. Roberto Fernandez-Lafuente** (<https://sciprofiles.com/profile/2784>)

**Website** (<https://www.repositorio.uva.es/works/highly-cited/2021/>) **Website** (<http://www.icp.csic.es/personal.php?id=134>)

*Editorial Board Member*

Institute of Catalysis and Petrochemistry-CSIC, Campus UAM-CSIC, C/ Marie Curie 2, Cantoblanco, 28049 Madrid, Spain

**Interests:** biocatalysis; enzyme immobilization; enzyme stabilization; enzyme chemical modification; bioprocess optimization

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**Dr. Erika Ferrari** (<https://sciprofiles.com/profile/190308>)

**Website** (<http://personale.unimore.it/rubrica/dettaglio/erikaf>)

*Editorial Board Member*

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, via Campi, 103-41125 Modena, Italy

**Interests:** curcumin; metal-based drugs; PET-radiotracers; gallium-68; curcuminoids; NMR spectroscopy

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**Prof. Dr. Maria José U. Ferreira** (<https://sciprofiles.com/profile/355354>)

**Website** (<https://imed.ulisboa.pt/research/program-areas/drug-design/natural-products-chemistry/>)

*Editorial Board Member*

Faculty of Pharmacy, University of Lisbon, Avenida Professor Gama Pinto, 1649-003 Lisbon, Portugal

**Interests:** natural products chemistry; isolation and structure elucidation; hemi-synthesis of plant-derived compounds; bioactive compounds; anticancer compounds; multidrug resistance (MDR); ABC transporter modulators; P-glycoprotein; antibacterial compounds

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**Prof. Dr. Rute A.S. Ferreira** (<https://sciprofiles.com/profile/384779>)

**Website** (<http://hybrids.web.ua.pt/group-members.html>)

*Editorial Board Member*

Physics Department, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

**Interests:** luminescence; green photonics; solid state lighting; luminescent solar concentrators; integrated optics; spectroscopic ellipsometry; organic-inorganic hybrids; lanthanide ions

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**Prof. Dr. George Fleet** (<https://sciprofiles.com/profile/828832>)

**Website** (<http://users.ox.ac.uk/~gwjfl/GeorgeFleetWEB.htm>)

*Editorial Board Member*

Chemistry Research Laboratory, Department of Chemistry, University of Oxford, Oxford OX1 3TA, UK

**Interests:** carbohydrate chemistry; monosaccharides; iminosugars; synthesis; sugar amino acids

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**Dr. Claudio Fontanesi** (<https://sciprofiles.com/profile/149714>)

**Website** (<http://personale.unimore.it/rubrica/dettaglio/fontanesi>)

*Editorial Board Member*

DIEF, University of Modena and Reggio Emilia, 41125 Modena, Italy

**Interests:** physical electrochemistry; organic electronics; spin dependent electrochemistry

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**Prof. Dr. Shunichi Fukuzumi** (<https://sciprofiles.com/profile/1802988>)

**Website** ([http://www.chem.s.u-tokyo.ac.jp/~shunichi/Welcome\\_to\\_Fukuzumis\\_Group.html](http://www.chem.s.u-tokyo.ac.jp/~shunichi/Welcome_to_Fukuzumis_Group.html))

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1. Department of Material and Life Science, Graduate School of Engineering, Osaka University, 2-1 Yamada-oka, Suita, Osaka 565-0871 Japan
2. Faculty of Science and Engineering, Meijo University, Nagoya, Aichi 468-8502, Japan
3. Department of Chemistry and Nano Science, Ewha Womans University, Seoul 03760, Korea

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**Interests:** artificial photosynthesis; electron transfer chemistry; organic photocatalysis; redox catalysis; dioxygen activation



**Prof. Dr. Julien Furrer** (<https://sciprofiles.com/profile/736373>)

**Website** ([https://www.dcbp.unibe.ch/ueber\\_uns/personen/prof\\_dr\\_furrer\\_julien/index\\_ger.html](https://www.dcbp.unibe.ch/ueber_uns/personen/prof_dr_furrer_julien/index_ger.html))

*Editorial Board Member*

Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, CH-3012 Bern, Switzerland

**Interests:** nuclear magnetic resonance; bioorganometallic chemistry; bioinorganic chemistry

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**Dr. Suresh Gadde** (<https://sciprofiles.com/profile/524816>)

**Website** (<https://www.uottawa.ca/en/repertoire-directory/employe-employee/89f2b804>)

*Editorial Board Member*

Department of Biochemistry, Microbiology, and Immunology, Faculty of Medicine, University of Ottawa, Ottawa, ON K1N 6N5, Canada

**Interests:** nanomedicine; drug delivery; nano-biointeractions; biomaterials; targeted drug delivery

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**Prof. Dr. Jean-Francois Gal** (<https://sciprofiles.com/profile/1695071>)

**Website** ([https://www.researchgate.net/profile/Jean\\_Francois\\_Gal](https://www.researchgate.net/profile/Jean_Francois_Gal))

*Editorial Board Member*

Université Côte d'Azur, Nice, France

**Interests:** physical organic chemistry; analytical chemistry; lewis basicity; gas-phase basicity; mass spectrometry; ion/molecule reactions



**Prof. Dr. Fabio Ganazzoli** (<https://sciprofiles.com/profile/545591>)

**Website** (<http://www.cmic.polimi.it/en/personedocenti-e-ricercatori/ganazzoli-fabio/>)

*Editorial Board Member*

Department of Chemistry, Chemical, and Material Engineering "G. Natta", Polytechnic University of Milan, Milan, Italy

**Interests:** polymer conformations and dynamics; branched polymers and dendrimers; molecular dynamics simulations; protein adsorption on biomaterials and nanomaterials; modeling of surface physisorption; modeling of molecular recognition

**Special Issues, Collections and Topics in MDPI journals**

**Prof. Dr. Gabriella Garbarino** (<https://sciprofiles.com/profile/236798>)

**Website** (<https://rubrica.unige.it/personale/V0pDX1pu>)

*Editorial Board Member*

Università degli Studi di Genova, Genoa, Italy

**Interests:** heterogeneous catalysis; chemical reaction engineering, CO<sub>2</sub> capture and utilisation; adsorption and reaction engineering



**Dr. Carlos A. Garcia-González** (<https://sciprofiles.com/profile/181127>)

**Website1** (<https://cost-aerogels.eu/main-contacts/dr-carlos-a-garcia-gonzalez/>) **Website2** (<https://cost-aerogels.eu/>)

*Editorial Board Member*

Department of Pharmacology, Pharmacy and Pharmaceutical Technology, University of Santiago de Compostela, 15782 Santiago de Compostela, Spain

**Interests:** aerogels; supercritical fluids; regenerative medicine; pharmaceutical technology; 3D-bioprinting; porous materials; scaffolds; biomedical applications

**Special Issues, Collections and Topics in MDPI journals**



**Prof. Dr. Joss V. Garcia-Perez** (<https://sciprofiles.com/profile/2274704>)

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**Website** (<https://foodpeel.blogs.upv.es/>)

*Editorial Board Member*

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Department of Food Technology, Universitat Politècnica de València, Valencia, Spain  
**Interests:** high power ultrasound; pulsed electric fields-PEF; moderate electric fields-MEF; supercritical fluids; drying; extraction; heat transfer; modeling; non-destructive ultrasonic testing; texture  
**Special Issues, Collections and Topics in MDPI journals**



**Prof. Dr. Victor M. García-Suárez** (<https://sciprofiles.com/profile/1219073>)  
**Website** (<http://www.uniovi.es/en/-/garcia-suarez-victor-manuel>)

*Editorial Board Member*  
University of Oviedo - Centro de investigación en Nanomateriales y Nanotecnología (CINN), El Entrego, Spain

**Interests:** materials science; nanotechnology; carbon-based materials; graphene; nanoribbons

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**Dr. Rosalba Gaudiuso**  
**Website** ([https://www.researchgate.net/profile/Rosalba\\_Gaudiuso](https://www.researchgate.net/profile/Rosalba_Gaudiuso))

*Editorial Board Member*  
Department of Chemistry, University of Bari "A. Moro", Bari, Italy

**Interests:** spectroscopy and spectrochemical analysis; laser-induced plasmas; biomedical sciences; cultural heritage science; laser ablation; nanomaterials



**Prof. Dr. Haibo Ge** (<https://sciprofiles.com/profile/1141373>)  
**Website** (<https://www.depts.ttu.edu/chemistry/Faculty/ge/index.php>)

*Editorial Board Member*  
Department of Chemistry, Texas Tech University, Box 41061, Lubbock, TX, USA  
**Interests:** transition metal catalysis; C–H functionalization; organic synthesis; green chemistry; electrochemistry; medicinal chemistry

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**Dr. Yurii V. Geletii** (<https://sciprofiles.com/profile/239658>)  
**Website** (<https://scholarblogs.emory.edu/hill/people/research-fellows-and-post-docs/>)

*Editorial Board Member*  
Department of Chemistry, Emory University, Atlanta, GA 30322, USA  
**Interests:** artificial photosynthesis; water splitting; water oxidation catalysts; electron transfer reactions

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**Dr. Corrada Geraci** (<https://sciprofiles.com/profile/1092247>)  
**Website1** (<http://www.ct.icb.cnr.it/>) **Website2** (<https://www.icb.cnr.it/personale/dipendenti/catania/catania-ricercatori/geraci-corrada/>)

*Editorial Board Member*  
CNR Istituto Di Chimica Biomolecolare, Catania, Italy  
**Interests:** supramolecular chemistry; food chemistry; natural preservative agents nanoencapsulation of bioactives



**Prof. Dr. Pascal Gerbault** (<https://sciprofiles.com/profile/13824>)  
**Website** (<http://staff.umons.ac.be/pascal.gerbault/activites.html>)

*Editorial Board Member*  
Organic Synthesis & Mass Spectrometry Lab, University of Mons, 19, avenue Maistriau, B-7000 Mons, Belgium  
**Interests:** organic chemistry; mass spectrometry; structural characterization; gas phase ion chemistry; natural products; macromolecules  
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**Prof. Dr. Silvano Geremia** (<https://sciprofiles.com/profile/208292>)  
**Website** (<http://dsf.units.it/en/department/people/geremia-silvano/1181>)

*Editorial Board Member*  
CEB Centre of Excellence in Biocrystallography, Department of Chemical and Pharmaceutical Sciences, University of Trieste, Trieste, Italy  
**Interests:** crystallography; structural biology; Vitamin B12 proteins; redox-proteins; drug delivery; diagnostics; metals in medicine; bioinorganic chemistry; supramolecular chemistry; nanostructures  
**Special Issues, Collections and Topics in MDPI journals**



**Dr. Francesca Giampieri** (<https://sciprofiles.com/profile/1107537>)  
★ (<https://clarivate.com/highly-cited-researchers/2022>) **Website** (<https://scholar.google.com/citations?user=o8ozYC4AAAAAJ&hl=it>)

*Editorial Board Member*  
1. Department of Clinical Sciences, Faculty of Medicine, Polytechnic University of Marche, 60131 Ancona, Italy  
2. Research Group on Foods, Nutritional Biochemistry and Health, Universidad Europea del Atlántico, Isabel Torres 21, 39011 Santander, Spain  
**Interests:** nutrition; health; disease prevention; dietary bioactive compounds; oxidative stress; aging; mitochondrial functionality; inflammation; bioenergetics  
**Special Issues, Collections and Topics in MDPI journals**



**Dr. Evagelos Gikas** (<https://sciprofiles.com/profile/1189456>)  
**Website** (<http://en.pharm.uoa.gr/personnel/faculty-members/pharmaceutical-chemistry/gikas-euaggelos.html>)

*Editorial Board Member*  
School of Health Sciences, Faculty of Pharmacy, Laboratory of Pharmaceutical Analysis, University of Athens, Athens, Greece  
**Interests:** pharmaceutical analysis; method development for the determination of bioactive substances in biological fluids; separation methods (GC, HPLC, UPLC); mass spectrometry (TQ, QqToF, orbitrap, ion-trap); synthesis of fluorescent probes; computational chemistry (ab-initio, DFT, CASSCF)  
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**Dr. Dimosthenis L. Giokas** (<https://sciprofiles.com/profile/431286>)  
**Website** (<https://urci.unit.uoi.gr/imsc/en/members/giokas.html>)

*Editorial Board Member*  
Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece  
**Interests:** analytical chemistry; molecular and atomic spectroscopy; separation and preconcentration techniques; flow analysis; supramolecular analytical chemistry and organized assemblies; nanomaterials; chromatography; applied chemometrics  
**Special Issues, Collections and Topics in MDPI journals**



**Dr. José A. González-Pérez** (<https://sciprofiles.com/profile/291268>)  
**Website** (<https://www.irnas.csic.es/personal/nombre/jose-antonio-gonzalez-perez/>)

*Editorial Board Member*  
MOSS Group, Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC), 41012 Sevilla, Spain  
**Interests:** environmental organic geochemistry, including organic matter and soil health; organic contaminants in nature; refractory C forms in nature; molecular characterization of soil organic matter and its agronomic and environmental implications; biogeochemical markers in soils and sediments; the use of advanced techniques for organic matter and biopolymer characterization (GC/MS, Py-GC/MS, FT-IR, ED-XRF, IRMS, CSIA, 13C-MAS-NMR; high resolution MS, GC/Q-TOF)  
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**Dr. Edmond Gravel** (<https://sciprofiles.com/profile/261976>)  
**Website1** ([http://onr.ca/fr/fr/10107/1/Pages/Research%20en%20m%C3%A9decine\\_healthcare\\_technologies/scbm/mt.aspx](http://onr.ca/fr/fr/10107/1/Pages/Research%20en%20m%C3%A9decine_healthcare_technologies/scbm/mt.aspx)) **Website2** ([http://onr.ca/en/en/10107/1/Pages/Research%20in%20medicine\\_healthcare\\_technologies/scbm/mt.aspx](http://onr.ca/en/en/10107/1/Pages/Research%20in%20medicine_healthcare_technologies/scbm/mt.aspx))  
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*Editorial Board Member*  
Service de Chimie Bioorganique et de Marquage (SCBM), CEA, Université Paris-Saclay, 91191 Gif-sur-Yvette, France  
**Interests:** nanomedicine; nanomaterials; heterogeneous catalysis; organic synthesis; supramolecular chemistry

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**Dr. Mark Gray** (<https://sciprofiles.com/profile/973199>)

**Website** (<https://www.sunderland.ac.uk/about/staff/pharmacy-pharmaceutical-and-cosmetic-sciences/markgray/>)

*Editorial Board Member*

School of Pharmacy, University of Sunderland, Sunderland SR1 3SD, UK

**Interests:** medicinal chemistry; diagnostic tools; antimicrobial resistance; molecular modelling; drug design; supramolecular chemistry; physical organic chemistry

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**Dr. Tamar Greaves** (<https://sciprofiles.com/profile/544325>)

**Website** (<https://www.rmit.edu.au/contact/staff-contacts/academic-staff/g/greaves-associate-professor-tamar>)

*Editorial Board Member*

School of Science, RMIT University, Melbourne, VIC 3000, Australia

**Interests:** Ionic liquids; protic ionic liquids; self-assembly; SAXS; liquid crystals; high throughput

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**Prof. Dr. Alexander Greer** (<https://sciprofiles.com/profile/10994>)

**Website** (<https://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Chemistry/Faculty-Bios/Alexander-Greer/>)

*Editorial Board Member*

Department of Chemistry, Graduate Center and CUNY, Brooklyn College, Brooklyn, NY 11210, USA

**Interests:** physical-organic chemistry; singlet molecular oxygen; photooxidation mechanisms; reactive intermediates and cytotoxic agents; antitumor and antifungal compounds; natural products; organism chemical defense mechanisms; natural selection of biological substances; chemical evolution; molecular bilateral symmetry



**Dr. Alexandru Mihai Grumezescu** (<https://sciprofiles.com/profile/28219>)

**Website** (<http://grumezescu.com/>)

*Editorial Board Member*

Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest, RO-011061 Bucharest, Romania

**Interests:** synthesis and characterization of nanobiomaterials; polymers; pharmaceutical nanotechnology; drug delivery; anti-biofilm surfaces; nanomodified surfaces; natural products

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**Prof. Dr. Stefano Guido** (<https://sciprofiles.com/profile/2835205>)

**Website** (<https://www.ceinge.unina.it/stefano-guido>)

*Editorial Board Member*

1. Dipartimento di Ingegneria chimica, dei Materiali e della Produzione Industriale Università di Napoli "Federico II", Napoli, Italy

2. CEINGE Advanced Biotechnologies, Napoli, Italy

**Interests:** flow, phase behaviour and rheological properties of complex fluids, such as emulsions, foams, surfactant solutions, mucus and blood; microfluidics and microreactors; clogging in microchannels; cell migration; electrospinning; biofilms



**Prof. Dr. Ricardo Gutiérrez-Gallego** (<https://sciprofiles.com/profile/368186>)

**Website** (<https://producciocientifica.upf.edu/CawDOS/jsf/seleccionActividades/seleccionActividades.jsf?id=4e6ba3a53624fea6&idioma=en&tipo=activ&elmeucv=N>)

*Editorial Board Member*

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**Interests:** analytical chemistry; carbohydrate; biomolecular interactions; glycobiology; and protein/peptide pharmaceuticals

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**Dr. Julien Haines** (<https://sciprofiles.com/profile/769376>)

**Website** (<https://www.icgm.fr/Julien-Haines>)

*Editorial Board Member*

ICGM, CNRS, Université de Montpellier, ENSCM, 34095 Montpellier, CEDEX 5, France

**Interests:** crystallography; zeolites; high pressure science



**Prof. Dr. Peter C. Hauser** (<https://sciprofiles.com/profile/10765>)

**Website** (<https://chemie.unibas.ch/en/persons/peter-c-hauser/>)

*Editorial Board Member*

Department of Chemistry, University of Basel, Spitalstrasse 51, 4056 Basel, Switzerland

**Interests:** analytical chemistry; miniaturization; on-site and field instruments; capillary electrophoresis; flow-injection analysis; chemical sensors; open hardware



**Prof. Dr. Jiuming He** (<https://sciprofiles.com/profile/679693>)

**Website** (<https://www.imm.ac.cn/kydw/yjzkyg/6b77b1f6dbeb42118cd42d46e586ddb7.htm>)

*Editorial Board Member*

State Key Laboratory of Bioactive Substance and Function of Natural Medicines, NMPA Key Laboratory of safety research and evaluation of Innovative Drug, National Research Center for Analysis of Drugs and Metabolites, Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, 1 Xian Nong Tan Street, Beijing 100050, China

**Interests:** mass spectrometry (MS) and medicine; ambient MS ionization; imaging method; their application in molecular mapping for cancer research, neuroscience, drug research and development; Air Flow-Assisted Desorption Ionization (FADESI)-Mass Spectrometry Imaging (MSI); cancer metabolism; pharmacokinetics; pharmacodynamics

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**Prof. Dr. Karoly Heberger** (<https://sciprofiles.com/profile/433352>)

**Website** (<http://aki.ttk.mta.hu/scientist/heberger/>)

*Editorial Board Member*

Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary

**Interests:** chemometrics; pattern recognition; ranking; chromatography



**Prof. Dr. Petra Hellwig** (<https://sciprofiles.com/profile/641291>)

**Website** (<http://complex-matter.unistra.fr/en/research-teams/laboratory-of-bioelectrochemistry-and-spectroscopy/home/>)

*Editorial Board Member*

CNRS Univ Strasbourg, Lab Bioelectrochim & Spect, UMR 7140, F-67000 Strasbourg, France

**Interests:** biophysics; vibrational spectroscopy; bioelectrochemistry; membrane proteins

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**Prof. Dr. Evamarie Hey-Hawkins** (<https://sciprofiles.com/profile/644815>)

**Website** (<https://www.uni-leipzig.de/personenprofil/mitarbeiter/prof-dr-evamarie-hey-hawkins>)

*Editorial Board Member*

Institute of Inorganic Chemistry, Leipzig University, Johannisallee 29, D-04103 Leipzig, Germany

**Interests:** inorganic chemistry; (chiral, functionalised) phosphorus compounds; carboranes; homogeneous catalysis with mono- and multinuclear transition metal complexes; biological and medicinal chemistry with inorganic compounds

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**Dr. Hajime Hirao**

**Website** (<https://lhs.cuhk.edu.cn/teacher/231>)

*Editorial Board Member*

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School of Medicine, The Chinese University of Hong Kong, Shenzhen, Longgang District, Shenzhen 518172, China

**Interests:** computational chemistry; energy decomposition analysis; catalysis; cytochrome P450

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**Dr. Jennifer R. Hiscock** (<https://sciprofiles.com/profile/650299>)

**Website** (<https://www.kent.ac.uk/physical-sciences/people/1318/hiscock-jennifer>)

*Editorial Board Member*

School of Physical Sciences, Ingram Building, University of Kent, Canterbury CT2 7NH, UK

**Interests:** self-association; hydrogen bonding; amphiphiles; antimicrobial development; anticancer drug development; membranes; host-guest chemistry

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**Prof. Dr. Mark R. Hoffmann** (<https://sciprofiles.com/profile/520734>)

**Website** (<https://und.edu/directory/mark.hoffmann>)

*Editorial Board Member*

Department of Chemistry, University of North Dakota, Grand Forks, Grand Forks, ND 58202-9024, USA

**Interests:** electronic structure theory; multireference perturbation theory; embedding; excited electronic states; strong correlation

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**Dr. Jahir Orozco Holguin** (<https://sciprofiles.com/profile/1153707>)

**Website1** (<https://scholar.google.com/citations?user=AMAMUJAAAAJ&hl=en>) **Website2**

([http://www.udea.edu.co/wps/portal/udea/web/inicio/investigacion/grupos-investigacion/max-planck/nanobioengineering/!ut/p/z/1jZDBDolwEES\\_xS\\_otrQEj0spCgUKCUTsxXAyTRQ9GL\\_fxhgPosjeJnkmxliSU\\_sONzdcbi5yzicvN7b8FA1QIEmoTB](http://www.udea.edu.co/wps/portal/udea/web/inicio/investigacion/grupos-investigacion/max-planck/nanobioengineering/!ut/p/z/1jZDBDolwEES_xS_otrQEj0spCgUKCUTsxXAyTRQ9GL_fxhgPosjeJnkmxliSU_sONzdcbi5yzicvN7b8FA1QIEmoTB))

*Editorial Board Member*

Max Planck Tandem Group in Nanobioengineering, Universidad de Antioquia, Antioquia, Colombia

**Interests:** nano-bioengineering; nanomotors; micro(nano)carriers; nano-encapsulation; selective and controlled drug delivery; chemical (bio)sensors and nano(micro)devices; electrochemistry

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**Prof. Dr. Mee Young Hong** (<https://sciprofiles.com/profile/487872>)

**Website** (<https://ens.sdsu.edu/people/mee-young-hong/>)

*Editorial Board Member*

San Diego State University, San Diego, USA

**Interests:** Nutrition; colon cancer; colitis; cardiovascular diseases; inflammation; satiety; functional foods

**Prof. Dr. Seungpyo Hong** (<https://sciprofiles.com/profile/1413709>)

**Website** (<https://pharmacy.wisc.edu/hong-lab/>)

*Editorial Board Member*

Milton J. Henrichs Chair in Pharmaceutical Sciences; Professor of Pharmaceutical Sciences, Carbone Cancer Center, and Biomedical Engineering; Director of Wisconsin Center for NanoBioSystems (WisCNano), University of Wisconsin, Madison, WI 53705, USA

**Interests:** nanomedicine; polymer chemistry; surface engineering; circulating tumor cell; cancer biomarker

**Dr. Ekram Hossain** (<https://sciprofiles.com/profile/804639>)

**Website** (<https://clarivate.com/highly-cited-researchers/2022>) **Website** (<https://home.cc.umanitoba.ca/~hossaina/>)

**Website** (<https://www.researchgate.net/publication/311111111>)

**Website** (<https://www.researchgate.net/publication/311111111>)

*Editorial Board Member*

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**Interests:** metabolomics; LC-MS/MS; HPLC; high resolution mass spectrometry; gas phase ion chemistry; method development; small molecule quantitation; CID; HCD; PRM; chagas diseases; peptide sequencing; fragmentation mechanism; biomarker; liver cancer; photoelectron spectroscopy

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**Prof. Dr. Christian Huck** (<https://sciprofiles.com/profile/93067>)

**Website** (<https://www.uibk.ac.at/acrc/mitarbeiter/huck/>)

*Editorial Board Member*

Institute of Analytical Chemistry and Radiochemistry, CCB-Center for Chemistry and Biomedicine, Leopold-Franzens University, Innrain 80-82, 6020 Innsbruck, Austria

**Interests:** vibrational spectroscopy; separation science; enrichment techniques; mass spectrometry

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**Prof. Dr. Peter Huszthy**

**Website** ([https://doktori.hu/index.php?menuid=192&lang=EN&sz\\_ID=3268](https://doktori.hu/index.php?menuid=192&lang=EN&sz_ID=3268))

*Editorial Board Member*

Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, Szent Gellért tér 4, 1111 Budapest, Hungary

**Interests:** synthesis and molecular recognition of macrocycles

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**Prof. Dr. Muhammad Ilias** (<https://sciprofiles.com/profile/407632>)

**Website** (<https://pharmacy.olemiss.edu/blog/team/dr-muhammad-ilias/>)

*Editorial Board Member*

National Center for Natural Products Research, Research Institute of Pharmaceutical Sciences, School of Pharmacy, Thad Cochran Research Center, University of Mississippi, University, MS 38677, USA

**Interests:** isolation and structure elucidation of anti-infective; anticancer; chemopreventive; neuroprotective and agrochemical constituents from plants and their use in human and plant health

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**Prof. Dr. Roberto Improta** (<https://sciprofiles.com/profile/966541>)

**Website** (<https://sites.google.com/site/rimprotaibcnr/>)

*Editorial Board Member*

Istituto Biostrutture e Bioimmagini- Consiglio Nazionale delle Ricerche. V. Mezzocannone 16, 80134 Napoli, Italy

**Interests:** photophysics and photochemistry; computational spectroscopy; DNA photodamage; multichromophore systems; solvation models



**Prof. Dr. Denis Jacquemin** (<https://sciprofiles.com/profile/761487>)

**Website1** (<http://www.univ-nantes.fr/site-de-l-universite-de-nantes/m-denis-jacquemin-1431210.kjsp>) **Website2**

(<https://www.scopus.com/authid/detail.uri?authorid=22944502300>)

*Editorial Board Member*

CEISAM Lab, UMR CNRS 6230, Science and Technology Faculty, BP 92208, University of Nantes, 2, rue de la Houssinière, 44322 Nantes, CEDEX 3, France

**Interests:** theoretical chemistry; first-principle modelling; optical spectra; organic photochromes (single and multiple); ESIPT processes



**Prof. Dr. Sami Jannin**

**Website** (<https://www.hmrlab.eu/>)

*Editorial Board Member*

Université Claude Bernard Lyon 1, Villeurbanne, France

**Interests:** nuclear magnetic resonance; hyperpolarization; dynamic nuclear polarization

**Prof. Dr. Petr Dvořák** (<https://sciprofiles.com/profile/1413709>)

**Website** (<https://www.researchgate.net/publication/311111111>)

*Editorial Board Member*

Faculty of Environment, University of Jan Evangelista Purkyně in Ústí nad Labem, Králova výšina 3132/7, 400 96 Ústí nad Labem, Czech Republic

**Interests:** environmental chemistry; material sciences; environmental impacts assessments; non-conventional sorbents

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**Prof. Dr. Boon Siang Jason Yeo**

**Website** ([https://www.chemistry.nus.edu.sg/people/academic\\_staff/yeobsj.htm](https://www.chemistry.nus.edu.sg/people/academic_staff/yeobsj.htm))

*Editorial Board Member*

Department of Chemistry, Faculty of Science, National University of Singapore, 3 Science Drive 3, Singapore, Singapore

**Interests:** electrocatalysis; electrochemical reduction of carbon dioxide; hydrogen evolution reaction; oxygen evolution reaction; water splitting; solar fuels; Operando spectroscopies



**Prof. Dr. Philippe Jeandet** (<https://sciprofiles.com/profile/48183>)

**Website** ([https://www.univ-reims.eu/who-is-who/champagne-viticulture/jeandet-philippe.18438.32276.html?sit\\_id=45](https://www.univ-reims.eu/who-is-who/champagne-viticulture/jeandet-philippe.18438.32276.html?sit_id=45))

*Editorial Board Member*

Research Unit Induced Resistance and Plant Bioprotection, University of Reims, EA 4707 USC INRAe 1488, SFR Condorcet FR CNRS 3417, 51100 Reims, France

**Interests:** plant–microbe interaction; crop protection; biological control

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**Prof. Dr. Lucjan Jerzykiewicz**

**Website** (<https://chem.uni.wroc.pl/pl/pracownik/151#>)

*Editorial Board Member*

Faculty of Chemistry, University of Wrocław, Wrocław, Poland

**Interests:** crystallography; coordination chemistry; bioorganic chemistry; solid state characterization of pharmaceuticals



**Prof. Dr. Alfonso Jimenez** (<https://sciprofiles.com/profile/847379>)

**Website** (<https://web.ua.es/en/nanobiopol/members/alfonso-jimenez.html>)

*Editorial Board Member*

Department of Analytical Chemistry, Nutrition & Food Sciences, University of Alicante, San Vicente del Raspeig, ES-03690 Alicante, Spain

**Interests:** biopolymers; analytical methods; valorization; sustainable extraction methods; active food packaging

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**Dr. Ciril Jimeno** (<https://sciprofiles.com/profile/217605>)

**Website** ([https://www.researchgate.net/profile/Ciril\\_Jimeno](https://www.researchgate.net/profile/Ciril_Jimeno))

*Editorial Board Member*

Department of Biological Chemistry and Molecular Modelling, Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), c/Jordi Girona 18-26, E08034 Barcelona, Spain

**Interests:** asymmetric catalysis; organocatalysis; supramolecular catalysis; bioinspired catalysis

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**Dr. Stephane Jobic** (<https://sciprofiles.com/profile/600998>)

**Website** (<https://www.cnrs-imn.fr/index.php/accueil-l-imn/annuaire-imn-membres-de-l-imn-par-noms-et-par-services/item/jobic-stephane>)

*Editorial Board Member*

Institut des Matériaux Jean Rouxel (IMN), Université de Nantes, CNRS, 2 rue de la Houssinière, BP 32229, 44322 Nantes, CEDEX 3, France

**Interests:** solid state chemistry (inorganic and organic-inorganic materials); optical materials (pigments, UV-absorbers, TCO, X-chromes, fluorescent and long lasting phosphorescent materials, p-type semiconductors, photovoltaics, etc.); structure-property relationship; impact of defects on properties

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**Prof. Dr. Krzysztof Józwiak** (<https://sciprofiles.com/profile/1439788>)

**Website** (<https://www.umlub.pl/uczelnia/pracownicy/szczegoly.1695.html>)

*Editorial Board Member*

Department of Biopharmacy, Medical University of Lublin, Chodzki 4A Str, 20093 Lublin, Poland

**Interests:** medicinal chemistry of GPCR and LGIC receptors; biased agonisms; modeling of drug - target molecular interactions; chiral recognition; multitarget drugs



**Dr. Christian Jungnickel** (<https://sciprofiles.com/profile/1083991>)

**Website** (<https://chem.pg.edu.pl/ktkil/dr-hab.-christian-jungnickel>)

*Editorial Board Member*

Department of Colloid and Lipid Science, Faculty of Chemistry, Gdańsk University of Technology, ul. Narutowicza 11/12, 80-233 Gdańsk, Poland

**Interests:** ionic liquids; predictive modelling; environmental fate; rhamnolipids; digestion; bile salts

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**Dr. Dimitrios Kalderis** (<https://sciprofiles.com/profile/876176>)

**Website** (<https://www.linkedin.com/in/dimitrios-kalderis-4342a51b5/?originalSubdomain=gr>)

*Editorial Board Member*

Department of Electronic Engineering, Hellenic Mediterranean University, Chania, 73100 Crete, Greece

**Interests:** biochar; hydrochar; carbon-based nanocomposite materials; hydrothermal carbonization; biomass utilization for the production of added-value materials

**Special Issues, Collections and Topics in MDPI journals**

**Dr. Ko-ichi Kawahara**

**Website** (<http://www.oit.ac.jp/bio/english/laboratory/kawahara/>)

*Editorial Board Member*

Department of Biomedical Engineering, Osaka Institute of Technology, Osaka, Japan

**Interests:** inflammation; thrombosis; innate immunology; ER stress



**Prof. Krzysztof Kazmierczuk**

**Website** (<http://nmr.cent.uw.edu.pl/group-members/krzysztof-kazmierczuk/>)

*Editorial Board Member*

UW - Centre of New Technologies, University of Warsaw, Warsaw, Poland

**Interests:** compressed sensing in NMR spectroscopy; new NMR methods: fast, time-resolved, diffusion-ordered, homo-decoupled and others



**Prof. Dr. György Keglevich** (<https://sciprofiles.com/profile/35866>)

**Website** (<https://oct.bme.hu/oct/hu/keglevich>)

*Editorial Board Member*

Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

**Interests:** P-heterocycles; aromatic phospholes; low-coordinated P-fragments; phosphine-transition metal complexes; phosphine-boranes

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**Dr. Sergey A. Khrapak** (<https://sciprofiles.com/profile/1035454>)

**Website** (<https://www.mathnet.ru/eng/person44930>)

**Website** (<https://www.researchgate.net/profile/Sergey-A-Khrapak>)

**Website** ([https://www.dlr.de/fo/fo.nsf/\(openDocument\)?open=1](https://www.dlr.de/fo/fo.nsf/(openDocument)?open=1))

**Interests:** classical strongly coupled systems; plasmas and complex plasmas; soft condensed matter; phase transitions; thermodynamics and transport properties of fluids

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**Prof. Dr. Cheal Kim** (<https://sciprofiles.com/profile/868708>)

**Website** (<http://fchem.seoultech.ac.kr/en/intro/faculty/>)

*Editorial Board Member*

Department of Fine Chemistry, Seoul National University of Science and Technology, Seoul 136-741, Korea

**Interests:** development of chemical sensors; reactivity study of the transition metal complexes; DNA cleavage by their metal complexes; MOF

**Prof. Dr. Hye Jung Kim** (<https://sciprofiles.com/profile/512132>)

*Editorial Board Member*

Department of Pharmacology, School of Medicine, Gyeongsang Nat'l University, Jinjudaero 817beongil 16, Korea

**Interests:** breast cancer; metastasis; anticancer drugs; signaling pathways; endothelial dysfunction



**Prof. Dr. Yun-Bae Kim** (<https://sciprofiles.com/profile/36228>)

**Website** (<https://redmine.mdpi.com/issues/1185131>)

*Editorial Board Member*

Department of Toxicology, College of Veterinary Medicine, Chungbuk National University, 1 Chungdaero (Gaesin-dong), Seowon-gu, Cheongju, Chungbuk 28644, Korea

**Interests:** screening and evaluation of bioactive materials; animal model development and treatment with stem cells or natural products of aging and neurodegenerative diseases (Alzheimer disease and senescence, cerebral palsy, multiple sclerosis, Lou Gehrig dis; toxicology of stress: stress-induced malformations, gastric ulcers, immune dysfunction and memory impairment; reproductive and developmental toxicology: prevention of malformations

**Prof. Dr. Masato Kitamura**

**Website** ([http://www.ps.nagoya-u.ac.jp/teaching\\_staff/kitamura/](http://www.ps.nagoya-u.ac.jp/teaching_staff/kitamura/))

*Editorial Board Member*

Graduate School of Pharmaceutical Sciences, Nagoya University, Nagoya, Japan

**Interests:** molecular catalyst; reaction mechanism, environmentally friendly organic synthesis; total synthesis



**Prof. Dr. Jürgen Köhler** (<https://sciprofiles.com/profile/787912>)

**Website** ([https://www.fkf.mpg.de/187100/Prof\\_Dr\\_Juergen\\_Koehler](https://www.fkf.mpg.de/187100/Prof_Dr_Juergen_Koehler))

*Editorial Board Member*

Max Planck Institute for Solid State Research, Heisenbergstrasse 1, 70569 Stuttgart, Germany

**Interests:** materials chemistry; inorganic chemistry; solid-state chemistry; X-ray diffraction, superconductors; material characterization; DFT calculations; crystal structure; synthesis; perovskites; oxides; fluorides; crystallography

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**Prof. Dr. Chojiro Kojima** (<https://sciprofiles.com/profile/335275>)

**Website** (<https://researchmap.jp/read0072023>)

*Editorial Board Member*

Graduate School of Engineering, Yokohama National University, Tokiwadai 79-5, Hodogaya-ku, Yokohama 240 8501, Japan

**Interests:** structural biology; NMR, protein; nucleic acids; structure; dynamics; interaction; drug screening

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**Prof. Dr. László Kollár** (<https://sciprofiles.com/profile/1114037>)

**Website** (<http://kemia.ttk.pte.hu/szervetlen/kollarl>)

*Editorial Board Member*

Department of Inorganic Chemistry, Faculty of Sciences, University of Pécs, Ifjúság 6, H 7624 Pécs, Hungary

**Interests:** homogeneous catalysis; coordination chemistry; transition metal complexes



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**Prof. Dr. Hinant Koltai** (<https://sciprofiles.com/profile/990985>)

**Website** (<https://www.koltailab.net/>)

*Editorial Board Member*

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Institute of Plant Sciences, Agricultural Research Organization (ARO), Volcani Center, Rishon LeZion, Israel

**Interests:** medicinal plants; medical cannabis; anti-inflammatory activity; anti-cancer activity; neuronal activity

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**Prof. Dr. Tomasz Norbert Koltunowicz** (<https://sciprofiles.com/profile/203972>)

**Website** (<https://nauka-polska.pl/#/profile/scientist?id=233543&lang=en&k=mu44u2>)

*Editorial Board Member*

Department of Electrical Devices and High Voltage Technology, Lublin University of Technology, 38A Nadbystrzycka Street, 20-618 Lublin, Poland

**Interests:** diagnostics of power transformers; insulation condition diagnostics; failure prevention; environmental pollution; nanocomposite materials

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**Prof. Dr. Miroslav Kooš** (<https://sciprofiles.com/profile/11031>)

**Website** (<http://www.chem.sk/people/koosmiroslav/>)

*Editorial Board Member*

Institute of Chemistry, Slovak Academy of Sciences, Dúbravská cesta 9, SK-845 38 Bratislava, Slovakia

**Interests:** carbohydrate chemistry; glycoconjugates; N,O-heterocycles; organic synthesis; structure determination



**Dr. George E. Kostakis** (<https://sciprofiles.com/profile/138517>)

**Website** (<http://www.sussex.ac.uk/lifesci/kostakislab/>)

*Editorial Board Member*

Department of Chemistry, School of Life Sciences, University of Sussex, Brighton BN1 9QJ, Sussex, UK

**Interests:** synthetic coordination chemistry; copper catalysis; 3d-4f bimetallic catalysts; benzotriazoles

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**Prof. Dr. Panayiotis A. Koutentis** (<https://sciprofiles.com/profile/193>)

**Website** (<http://ucy.ac.cy/dir/en/component/comprofiler/userprofile/koutenti/>)

*Editorial Board Member*

Department of Chemistry, University of Cyprus, P. O. Box 20537, Nicosia 1678, Cyprus

**Interests:** heterocyclic chemistry; sulfur-nitrogen heterocycles; synthetic methods; azacenes; zwitterionic acenes; stable organic radicals; biologically active heterocycles; isothiazoles; 1,2,3-dithiazoles; 1,2,6-thiadiazines; 1,2,4-benzotriazines

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**Prof. Dr. Lajos Kovacs** (<https://sciprofiles.com/profile/27141>)

**Website** (<http://www.mdche.u-szeged.hu/~kovacs/nal.html>)

*Editorial Board Member*

Nucleic Acids Laboratory, Department of Medicinal Chemistry, University of Szeged, Dóm tér 8, H-6720 Szeged, Hungary

**Interests:** G quadruplexes; supramolecular chemistry; synthetic organic chemistry of carbohydrates; nucleobases; nucleosides; C-nucleosides; peptide nucleic acids; heterocycles; protecting groups

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**Prof. Dr. Marek M. Kowalczyk** (<https://sciprofiles.com/profile/440587>)

**Website** ([https://cmw.pan.edu.pl/index.php?option=com\\_k2&view=item&layout=item&id=1671&Itemid=589&lang=en](https://cmw.pan.edu.pl/index.php?option=com_k2&view=item&layout=item&id=1671&Itemid=589&lang=en))

*Editorial Board Member*

Centre of Polymer and Carbon Materials Polish Academy of Sciences, PL-41819 Zabrze, Poland

**Interests:** biocompatible and biodegradable polymer systems; polymer mass spectrometry; bioactive oligomers; controlled drug delivery systems; ring-opening polymerization; forensic engineering of advanced polymeric materials

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**Dr. Tomasz Kowalkowski** (<https://sciprofiles.com/profile/697877>)  
**Website** (<https://www.chem.umk.pl/kchsib/pracownicy/tomasz-kowalkowski-2/>)

*Editorial Board Member*

Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University Gagarina 7, 87-100 Toruń, Poland

**Interests:** chemometrics; modelling; elemental analysis; ICP-MS; atomic absorption spectroscopy; field flow fractionation; SPLITT; heavy metals and nutrients in the environment

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**Dr. Reinhard Karl Kremer** (<https://sciprofiles.com/profile/1126241>)

**Website** (<https://www.fkf.mpg.de/person/31478/5302167>)

*Editorial Board Member*

Max Planck Institute for Solid State Research, Heisenbergstrasse 1, 70569 Stuttgart, Germany

**Interests:** electrical; thermal and magnetic properties of new materials; magnetic systems with unusual ground states properties; low-dimensional and frustrated quantum antiferromagnets; multiferroics; new superconductors

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**Prof. Dr. Kamil Kuca** (<https://sciprofiles.com/profile/259531>)

**Website** (<http://eng.fnhk.cz/cbv/our-team/kuca-kamil>)

*Editorial Board Member*

University of Hradec Kralove, Hradec Kralove, Czech Republic

**Interests:** antidotes for pesticide and nerve agent poisonings; Alzheimer's disease treatment; detergents as disinfectants, nanoparticles; decontamination means; toxins; drug design and development; nanotechnology; IT, parallel computing, ANN; project management; scientific management; technology transfer; health economics and pharmacoconomics

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**Dr. Daniela Lanari** (<https://sciprofiles.com/profile/796507>)

**Website** (<https://www.unipg.it/personale/daniela.lanari/en/teaching>)

*Editorial Board Member*

Dipartimento di Scienze Farmaceutiche, Università di Perugia, Via del Liceo 1, 06123 Perugia, Italy

**Interests:** sustainable chemistry; heterogeneous catalysis; benign reaction media; flow chemistry

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**Prof. Dr. Anna Lankoff** (<https://sciprofiles.com/profile/author/LzBTZ0hhMFJFbmQ1Q3JNMI9LUVpPeVdEUWFwcXNmRngwbFFxRndmUXhDaz0=>)

**Website** ([https://nauka-polska.pl/#/profile/scientist?id=81599&\\_k=1j9rr7](https://nauka-polska.pl/#/profile/scientist?id=81599&_k=1j9rr7))

*Editorial Board Member*

1. Centre for Radiobiology and Biological Dosimetry, Institute of Nuclear Chemistry and Technology, Dorodna 16, 03-195 Warsaw, Poland

2. Department of Medical Biology, Institute of Biology, Jan Kochanowski University, Uniwersytecka 7, 24-406 Kielce, Poland

**Interests:** radiobiology; molecular biology; genetics; radiation-induced DNA damage and repair; cancer; biomarkers; radiopharmaceuticals for targeted cancer therapy

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**Prof. Dr. Anette Larsson** (<https://sciprofiles.com/profile/501704>)

**Website** (<https://www.chalmers.se/en/Staff/Pages/anette-larsson.aspx>)

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*Editorial Board Member*  
Department of Chemical and Biological Engineering, Chalmers University of Technology, 41296 Goteborg, Sweden

**Interests:** controlled drug release; cellulose derivatives; thermoplastic biobased polymers

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**Dr. Jose Luis Lavandera** (<https://sciprofiles.com/profile/456173>)

**Website** ([https://www.researchgate.net/profile/Jose-Luis\\_Lavandera](https://www.researchgate.net/profile/Jose-Luis_Lavandera))

*Editorial Board Member*

Institute of Applied Molecular Medicine, CEU San Pablo University, Madrid, Spain

**Interests:** neuroregeneration; neurodegeneration; neuroprotection; neuroinflammation; oxidative stress; molecular physiology; physiopathology; molecular pharmacology; medicinal chemistry; drug-discovery

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**Prof. Dr. Albert Lebedev** (<https://sciprofiles.com/profile/1144481>)

**Website** ([http://www.chem.msu.ru/rus/chair/org\\_w/welcome.html](http://www.chem.msu.ru/rus/chair/org_w/welcome.html))

*Editorial Board Member*

Department of Organic Chemistry, Lomonosov Moscow State University, Moscow, Russia

**Interests:** organic mass spectrometry; environmental chemistry; peptide sequencing; disinfection by-products

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**Prof. Dr. Isabelle Ledoux-Rak**

**Website** (<http://ipqm.ens-paris-saclay.fr/version-anglaise/top/directory/ledoux-rak-isabelle-586.kjsp>)

*Editorial Board Member*

Department of Physics, Ecole Normale Supérieure Paris Saclay, Paris, France

**Interests:** molecular and supramolecular engineering for photonic applications; investigation of gold nanostructures for quadratic nonlinear optics; elaboration of waveguiding polymer devices for sensor applications

**Dr. Seung Seo Lee** (<https://sciprofiles.com/profile/582857>)

**Website** (<https://www.southampton.ac.uk/chemistry/about/staff/ssl1e12.page>)

*Editorial Board Member*

Lecturer in Chemical Biology, School of Chemistry, University of Southampton, Southampton, UK

**Interests:** glycosyltransferase; glycosidase; CAZy enzymes; enzymology; biocatalysts; carbohydrate chemistry; antimicrobial resistance; two component system; enzyme inhibitors; fluorinated carbohydrate; deubiquitinase inhibitor

**Special Issues, Collections and Topics in MDPI journals**



**Dr. Vladimir Ya. Lee** (<https://sciprofiles.com/profile/2304736>)

**Website** (<https://biography.omicsonline.org/japan/tokyo-city-university/vladimir-ya-lee-1515224>)

*Editorial Board Member*

Department of Chemistry, Faculty of Pure and Applied Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba 305-8571, Ibaraki, Japan

**Interests:** experimental and theoretical studies of the low-coordinate derivatives of the main group elements: cations, free radicals, anions, carbenes, multiply-bonded species, aromatic compounds, clusters, and their transition metal complexes



**Prof. Dr. Young Jin Lee** (<https://sciprofiles.com/profile/2214130>)

**Website** (<https://www.ipb.iastate.edu/people/young-jin-lee>)

*Editorial Board Member*

Department of Chemistry, Iowa State University, Ames, IA, USA

**Interests:** mass spectrometry imaging; matrix-assisted laser desorption ionization; plant metabolites; bio-oils; high-resolution mass spectrometry

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**Prof. Dr. Christian Lehmann** (<https://sciprofiles.com/profile/222766>)

**Website** (<https://medicine.dal.ca/departments/departments/sites/anesthesia/our-people/christian-lehmann.html>)

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*Editorial Board Member*  
Department of Anesthesiology, Dalhousie University, Halifax, NS, Canada

**Interests:** cannabinoids; infection; sepsis and its early indications; intravital imaging microcirculation; septic shock stroke

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**Prof. Dr. Francisco Lemos** (<https://sciprofiles.com/profile/863470>)

**Website** (<https://cerena.tecnico.ulisboa.pt/user/571>)

*Editorial Board Member*

CERENA, Departamento de Engenharia Química, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal

**Interests:** catalysis; system dynamics and process control; fuels; circular economy; waste valorisation; zeolites



**Prof. Dr. Paola Lenzi** (<https://sciprofiles.com/profile/872748>)

**Website** ([https://www.researchgate.net/profile/Paola\\_Lenzi](https://www.researchgate.net/profile/Paola_Lenzi))

*Editorial Board Member*

Department of Translational Research and, New Technologies in Medicine and Surgery, Human Anatomy, Università di Pisa, Pisa, Italy

**Interests:** autophagy; ubiquitin proteasome pathway; transmission electron microscopy; mitochondria; cellular ultrastructure; neurodegeneration; brain tumor; drug abuse

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**Dr. Marcello Leopoldo** (<https://sciprofiles.com/profile/1248205>)

**Website** (<https://persone.ict.uniba.it/rubrica/marcello.leopoldo>)

*Editorial Board Member*

Dipartimento di Farmacia—Scienze del Farmaco, Università degli Studi di Bari, Bari, Italy

**Interests:** medicinal chemistry; serotonin receptors; dopamine receptors; formyl peptide receptors; positron emission tomography; fluorescent ligands

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**Prof. Dr. Zbigniew Jan Leśnikowski** (<https://sciprofiles.com/profile/465180>)

**Website** (<http://www.ibmpan.pl/en/labs/molecular-virology-and-biological-chemistry/group-leader>)

*Editorial Board Member*

Institute of Medical Biology, Polish Academy of Sciences, 106 Lodowa St., 92-232 Lodz, Poland

**Interests:** nucleic acids chemistry; medicinal chemistry; nucleosides; antivirals; therapeutic nucleic acids; medicinal chemistry of boron clusters; BNCT (boron neutron capture therapy); boron carriers

**Dr. Thomas Letzel** (<https://sciprofiles.com/profile/701217>)

**Website** (<https://www.cce.ed.tum.de/en/sww/team/former-members/pd-dr-thomas-letzel/>)

*Editorial Board Member*

Chair of Urban Water Systems Engineering, Technical University of Munich, Am Coulombwall 3, 85748 Garching, Germany

**Interests:** analytical chemistry; environmental analysis; biofunctional analysis; non-target screening workflows; liquid phase separation strategies (RPLC, HILIC, SFC, etc.); mass spectrometry (ionization techniques and analysers)

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**Dr. Virginie L. Lhiaubet-Vallet** (<https://sciprofiles.com/profile/212600>)

**Website** (<https://itq.upv-csic.es/empleado/lhiaubet-virginie-lyria>)

*Editorial Board Member*

Instituto de Tecnología Química (ITQ), Universitat Politècnica de València, Consejo Superior de Investigaciones Científicas, Valencia, Spain

**Interests:** DNA photochemistry; DNA photorepair; drug photosensitization, photoprotection; energy transfer processes

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**Prof. Dr. Dan Li** (<https://sciprofiles.com/profile/2776903>)

**Website** (<https://person.zju.edu.cn/lidan>)

*Editorial Board Member*

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College of pharmaceutical sciences, Zhejiang University, Hangzhou 310012, China

**Interests:** computer-aided drug design; androgen receptor antagonists; glucocorticoid receptor modulators; prostate cancer; anti-inflammatory drugs; anti-TB (tuberculosis) drugs

**Prof. Dr. Guigen Li** (<https://sciprofiles.com/profile/10989>)

**Website** (<http://www.depts.ttu.edu/chemistry/faculty/li/>)

*Editorial Board Member*

Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409-1061, USA

**Interests:** halo aldol reaction; alkene additions; aminohalogenation; diamination; Baylis-Hillman reaction

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**Dr. Li Li** (<https://sciprofiles.com/profile/390300>)

**Website** (<https://aibn.uq.edu.au/profile/2571/ll-li>)

*Editorial Board Member*

Australian Institute for Bioengineering and Nanotechnology, University of Queensland, Brisbane 4072, Australia

**Interests:** nanomaterials; clay materials; targeting drug delivery; oral vaccine delivery; development of functional nanoparticles for targeted drug delivery and vaccine delivery; engineering novel nanopatform for oral vaccine delivery; development of nano-formulations in feed for disease control in poultry; porous materials for energy production and storage

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**Prof. Dr. Shaoping Li** (<https://sciprofiles.com/profile/1952>)

**Website** (<https://sklqrcm.um.edu.mo/shao-ping-li/>)

*Editorial Board Member*

State Key Laboratory for Quality Research in Chinese Medicine, University of Macau, Macao, China

**Interests:** herbal glyco-analysis; quality control methods and standards development of Chinese medicines; study of edible and medicinal mushroom

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**Prof. Dr. Xinyong Li** (<https://sciprofiles.com/profile/528692>)

**Website** ([http://faculty.dlut.edu.cn/ecmxyll/zh\\_CN/index.htm](http://faculty.dlut.edu.cn/ecmxyll/zh_CN/index.htm))

*Editorial Board Member*

State Key Laboratory of Fine Chemicals, Key Laboratory of Industrial Ecology and Environmental Engineering (MOE), School of Environmental Science and Technology, Dalian University of Technology, Dalian 116024, China

**Interests:** nanotechnology; chemical and biological nano based-sensors; sustainable energy; catalytic engineering; green catalysis



**Prof. Dr. Alessia Ligresti** (<https://sciprofiles.com/profile/1541963>)

**Website** (<https://www.icb.cnr.it/teams/alessia-ligresti/>)

*Editorial Board Member*

Institute of Biomolecular Chemistry, National Research Council, Via Campi Flegrei 34, 80078 Pozzuoli (Napoli), Italy

**Interests:** cannabinoids; drug-discovery; metabolism; ligand–receptor interactions; cell and molecular mechanisms of cancer pathogenesis and treatment; medicinal chemistry



**Dr. Kok Hwa Lim** (<https://sciprofiles.com/profile/461726>)

**Website** (<https://www.singaporetech.edu.sg/directory/faculty/kok-hwa-lim>)

*Editorial Board Member*

Chemical Engineering and Food Technology Cluster, Singapore Institute of Technology, Singapore City, Singapore

**Interests:** computational chemistry and material sciences; heterogeneous catalytic reactions and surface sciences; green chemistry and processes; process safety; systems and biological structure you get the best experience.

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**Prof. Dr. Tsung-Hsien Lin** (<https://sciprofiles.com/profile/1223887>)

**Website** ([https://www.engnsysu.com.tw/members\\_info.asp?id=23](https://www.engnsysu.com.tw/members_info.asp?id=23))

*Editorial Board Member*

Department of Photonics, National Sun Yat-Sen University, Kaohsiung, Taiwan

**Interests:** optics and photonics; liquid crystal physics; liquid crystal materials and devices; advanced liquid crystal displays



**Dr. Marc A. Little** (<https://sciprofiles.com/profile/1135265>)

**Website1** (<https://orcid.org/0000-0002-1994-0591>) **Website2** (<https://www.liverpool.ac.uk/chemistry/staff/marc-little/>)

*Editorial Board Member*

University of Liverpool, Liverpool, UK

**Interests:** supramolecular chemistry; crystal engineering; host-guest chemistry; porous materials



**Prof. Dr. Aimin Liu** (<https://sciprofiles.com/profile/668055>)

**Website** (<http://feradical.utsa.edu>)

*Editorial Board Member*

Department of Chemistry, The University of Texas at San Antonio, San Antonio, TX, USA

**Interests:** metalloproteins; protein engineering; protein evolution; transition metals; metals in biology

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**Prof. Dr. Xinyong Liu** (<https://sciprofiles.com/profile/518968>)

**Website** (<https://www.pharm.sdu.edu.cn/info/1058/4169.htm>)

*Editorial Board Member*

Department of Medicinal Chemistry, School of Pharmaceutical Sciences, Shandong University, Jinan, Shandong, China

**Interests:** innovative drug research; antiviral drug; drug design; medicinal chemistry; antigout drug

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**Dr. Pui Chi Lo** (<https://sciprofiles.com/profile/1915534>)

**Website** (<https://www.cityu.edu.hk/bms/profile/gigilo.htm>)

*Editorial Board Member*

Department of Biomedical Sciences, City University of Hong Kong, Tat Chee Avenue, Kowloon, China

**Interests:** bioimaging; drug delivery; nanomedicine; phototherapy; supramolecular chemistry

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**Prof. Dr. Pierandrea Lo Nostro** (<https://sciprofiles.com/profile/2542627>)

**Website** (<https://www.unifi.it/p-doc2-2018-0-A-2b33392b322b-1.html>)

*Editorial Board Member*

Department of Chemistry, University of Florence, Sesto Fiorentino, Italy

**Interests:** physical chemistry; supramolecular chemistry; specific ion effects; soft matter; complex fluids; nanoscience and nanotechnology; formulations; gels;

molecular liquids



**Dr. Marcello Locatelli** (<https://sciprofiles.com/profile/27235>) \*

**Website** (<https://www.unich.it/ugov/person/5669>)

*Editorial Board Member*

Department of Pharmacy, University "G. d'Annunzio" of Chieti and Pescara, Chieti, Italy

**Interests:** innovative (micro)extraction procedures; hyphenated instrument configurations; bioactive compounds; characterization; fingerprints; method

validation; HPLC; mass spectrometry; biological matrices; chromatography; analytical chemistry; sample preparation; green analytical methodologies

\* **Website** (<https://www.unich.it/ugov/person/5669>) **Interests:** to approval, 10 book chapters and 2 books, and guest editor for 10 special issues

and 10 review articles on ScienceDirect (July 2019), h-index 26, 1644 citations)

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**Dr. Bernhard Loll** (<https://sciprofiles.com/profile/772209>)

**Website** ([https://www.bcp.fu-berlin.de/en/chemie/biochemie/research-groups/wahl-group/mitarbeiter/Dr\\_Bernhard\\_Loll.html/](https://www.bcp.fu-berlin.de/en/chemie/biochemie/research-groups/wahl-group/mitarbeiter/Dr_Bernhard_Loll.html/))

*Editorial Board Member*

Institute of Chemistry and Biochemistry, Freie Universität Berlin, Takustr. 6, D-14195 Berlin, Germany

**Interests:** structural Biology; terpene synthases; biotechnologically relevant enzymes; enzyme mechanism; protein engineering; natural product synthesis;

white biotechnology

**Prof. Dr. Jesús Lozano-Sánchez** (<https://sciprofiles.com/profile/87022>)

**Website** (<https://www.ugr.es/~nutricion/personal.php>)

*Editorial Board Member*

Department of Food Science and Nutrition, University of Granada, Campus Universitario s/n, 18071 Granada, Spain

**Interests:** phenolic compounds; green extraction; encapsulation; bioactive properties; digestion; food byproducts

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**Dr. Yi Lu** (<https://sciprofiles.com/profile/445364>)

**Website** ([https://spfd.fudan.edu.cn/eng\\_pharmacy/4b/29/c28916a412457/page.htm](https://spfd.fudan.edu.cn/eng_pharmacy/4b/29/c28916a412457/page.htm))

*Editorial Board Member*

Key Laboratory of Smart Drug Delivery of MOE, School of Pharmacy, Fudan University, Shanghai 201203, China

**Interests:** drug delivery; micro/nanoparticles; oral; transdermal

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**Prof. Dr. William D. Lubell** (<https://sciprofiles.com/profile/505185>)

**Website** (<https://www.wdlubellgroup.com/>)

*Editorial Board Member*

Department of Chemistry, University of Montreal, Montreal, QC H3C 3J7, Canada

**Interests:** peptide science; chemical biology; conformational restriction; amino acid; polyamide and heterocycle synthesis; medicinal chemistry; diversity-

oriented synthesis; peptidomimetic; drug discovery

**Special Issues, Collections and Topics in MDPI journals**



**Dr. Bono Lučić** (<https://sciprofiles.com/profile/10834>)

**Website** (<https://www.irb.hr/eng/About-RBI/People/Bono-Lucic>)

*Editorial Board Member*

Rudjer Bošković Institute, NMR Centre, Zagreb, Croatia

**Interests:** QSAR; QSPR; modelling in chemistry and molecular biophysics; development of molecular descriptors; model selection methods; model validation

algorithms; classification modelling; antioxidant activity modelling; cheminformatics; bioinformatics

**Special Issues, Collections and Topics in MDPI journals**



**Prof. Dr. Nathan W. Luedtke**

**Website** (<http://www.bioorganic-chemistry.com>)

*Editorial Board Member*

Department of Chemistry, University of Zurich, Zurich, Switzerland

**Interests:** chemical biology; fluorescent probes; synthesis and application of nucleosides; nucleotides and oligonucleotides



**Dr. Yangchao Luo** (<https://sciprofiles.com/profile/917098>) **Interests:** post experience.

**Website** (<https://nusc.uconn.edu/yangchao-luo/>)

*Editorial Board Member*

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

**Interests:** biomaterials; hydrogels; nanoparticles; encapsulation; controlled delivery

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**Dr. Konstantin Luzyanin**

**Website** (<https://www.liverpool.ac.uk/chemistry/staff/konstantin-luzyanin/>)

*Editorial Board Member*

Department of Chemistry, University of Liverpool, Crown Street, Liverpool L69 7ZD, UK

**Interests:** organometallic chemistry; catalysis; synthetic organic chemistry; NMR spectroscopy



**Dr. Rosanna Maccari** (<https://sciprofiles.com/profile/1257438>)

**Website** (<https://www.unime.it/it/persona/rosanna-maccari>)

*Editorial Board Member*

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm), University of Messina, Messina, Italy

**Interests:** medicinal chemistry; drug design and discovery; structure-activity relationships; enzyme inhibitors; antidiabetic agents; anti-inflammatory agents; anticancer agents; multitarget agents

**Special Issues, Collections and Topics in MDPI journals**

**Prof. Dr. Leonard R. MacGillivray** (<https://sciprofiles.com/profile/788780>)

**Website** (<https://chem.uiowa.edu/macgillivray-research-group>)

*Editorial Board Member*

Department of Chemistry, University of Iowa, Iowa City, IA 52242, USA

**Interests:** supramolecular chemistry; crystal engineering; noncovalent bonding; solid-state reactions; photochemistry



**Dr. Toshiaki Makino** (<https://sciprofiles.com/profile/468034>)

**Website** (<http://www.phar.nagoya-cu.ac.jp/hp/syg/makino-e.html>)

*Editorial Board Member*

Department of Pharmacognosy, Graduate School of Pharmaceutical Science, Nagoya City University, Nagoya, Japan

**Interests:** pharmaceutical sciences for traditional medicines; clinical pharmacognosy; medicinal historiytical sciences for traditional medicines; medicinal history



**Prof. Dr. Ricardo L. Mancera** (<https://sciprofiles.com/profile/953145>)

**Website** (<https://staffportal.curtin.edu.au/staff/profile/view/R.Mancera>)

*Editorial Board Member*

School of Pharmacy and Biomedical Sciences, Curtin Health Innovation Research Institute and Curtin Institute for Computation, Curtin University, Perth, WA

6845, Australia

**Interests:** computational biophysics; computational chemistry; structural bioinformatics

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**Dr. Richard J. Mandle** (<https://sciprofiles.com/profile/533415>)

**Website** (<https://eps.leeds.ac.uk/physics/staff/8300/dr-richard-mandle>)

*Editorial Board Member*

School of Physics and Astronomy, University of Leeds, Leeds, UK

**Interests:** soft matter; liquid crystals; organic synthesis; materials chemistry; nanomaterials

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**Prof. Dr. Georg Manolikakes** (<https://sciprofiles.com/profile/718103>)

**Website** (<https://chem.rptu.de/en/manolikakes/group-members/prof-dr-georg-manolikakes>)

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*Editorial Board Member*

MDPI

Department of Chemistry-Organic Chemistry, TU Kaiserslautern, Erwin-Schrödinger-Str. Geb. 54, D-67663 Kaiserslautern, Germany

**Interests:** organic synthesis; synthetic methodology; stereoselective synthesis; sustainable synthesis; multicomponent reactions; fixation of sulfur dioxide into small organic molecules

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**Dr. Sergei Manzhos** (<https://sciprofiles.com/profile/34792>)

**Website** (<https://sites.google.com/site/sergeimanzhos/>)

*Editorial Board Member*

Department of Mechanical Engineering, National University of Singapore, Singapore 117575, Singapore

**Interests:** electrochemical batteries; photoelectrochemical cells; computational spectroscopy; potential energy surfaces; machine learning; ab initio modeling; large scale density functional methods

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**Prof. Dr. José Marco-Contelles** (<https://sciprofiles.com/profile/157102>)

**Website** (<http://www.mutalig.eu/2016/06/prof-jose-marco-contelles/>)

*Editorial Board Member*

Laboratory of Medicinal Chemistry (IQOG, CSIC), C/Juan de la Cierva 3, 28006 Madrid, Spain

**Interests:** Alzheimer's disease; biological evaluation; drug discovery; medicinal chemistry; molecular design; neurodegenerative diseases; stroke; synthesis

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**Prof. Dr. Michal Jan Markuszewski** (<https://sciprofiles.com/profile/100584>)

**Website** ([https://www.researchgate.net/profile/Michal\\_Markuszewski](https://www.researchgate.net/profile/Michal_Markuszewski))

*Editorial Board Member*

Department of Biopharmacy and Pharmacodynamics, Medical University of Gdańsk, Gdańsk, Poland

**Interests:** bioanalysis; metabolomics; pharmacokinetics; liquid chromatography; mass spectrometry



**Dr. Alfonso Martinez-Felipe** (<https://sciprofiles.com/profile/492257>)

**Website** (<https://www.abdn.ac.uk/engineering/people/profiles/a.martinez-felipe>)

*Editorial Board Member*

School of Engineering, University of Aberdeen, Scotland, UK

**Interests:** liquid crystals; polymers; hydrogen bonding; supramolecular chemistry; Fourier-transform infrared spectroscopy - FT-IR; thermal analysis; dielectric spectroscopy; fuel cells; electrolytes; ionic conductivity; light-responsive materials

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**Prof. Dr. Luisa Margarida Martins** (<https://sciprofiles.com/profile/509978>)

**Website** (<https://cqe.tecnico.ulisboa.pt/members/474>)

*Editorial Board Member*

Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

**Interests:** functionalized materials; C-scorpionate-based catalysts; sustainable catalytic systems; homogeneous and supported catalysis; nanocatalysis; molecular electrochemistry

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*Editorial Board Member*

CSIC - Instituto de Catálisis y Petroleoquímica (ICP), Madrid, Spain

**Interests:** biocatalysis; CO<sub>2</sub> transformation; redox processes; cofactor regeneration; enzyme immobilization

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**Prof. Dr. Cédric R Mayer** (<https://sciprofiles.com/profile/662922>)

**Website** (<https://www.lumin.universite-paris-saclay.fr/fr/node/87>)

*Editorial Board Member*

Department of Chemistry, UFR of Science, Versailles, France

**Interests:** hybrid organic-inorganic materials; design of composites and nanocomposites; polyoxometalate; Ru(II) and Ir(III) coordination chemistry and photophysical applications

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**Dr. Bruno Medronho** (<https://sciprofiles.com/profile/298232>)

**Website** (<https://plantbiotechnologylab.uaig.pt/index.php/en/team/29-bruno-medronho>)

*Editorial Board Member*

1. MED—Mediterranean Institute for Agriculture, Environment and Development, Faculty of Sciences and Technology, Campus de Gambelas, University of Algarve, Ed. 8, 8005-139 Faro, Portugal

2. FSCN, Surface and Colloid Engineering, Mid Sweden University, SE-851 70 Sundsvall, Sweden

**Interests:** rheology; biopolymers; biomaterials; colloids; lignocellulose; polyphenol dissolution and extraction

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**Prof. Dr. Markus Meuwly**

**Website** (<https://quantitative-md-lab.org/>)

*Editorial Board Member*

Department of Chemistry, University of Basel, 4001 Basel, Switzerland

**Interests:** quantitative molecular mechanics simulations; gas- and condensed-phase systems



**Prof. Dr. Nikolaos Michailidis** (<https://sciprofiles.com/profile/1437364>)

**Website** (<http://euromat2017.fems.eu/committees/managing-committee/prof-dr-eng-nikolaos-michailidis-p2.html>)

*Editorial Board Member*

Department of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

**Interests:** coatings technologies; fatigue and stress; corrosion cracking; nanoindentation; material characterization; finite elements method (FEM); additive manufacturing; nanotechnology; biomaterials and bioengineering; shape memory alloys; porous materials

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**Prof. Dr. Marco Milanesio** (<https://sciprofiles.com/profile/194007>)

**Website1** ([https://www.researchgate.net/profile/Marco\\_Milanesio](https://www.researchgate.net/profile/Marco_Milanesio)) **Website2** (<http://people.unipmn.it/marcomi/>)

*Editorial Board Member*

Università del Piemonte Orientale "A Avogadro", Via Michel 11, 15100 Alessandria, Italy

**Interests:** molecular and crystal structure of chemical compounds and materials; single-crystal and powder X-ray diffraction



**Dr. Oscar Millet** (<https://sciprofiles.com/profile/299919>)

**Website** (<https://www.cicbiogune.es/people/omillet>)

*Editorial Board Member*

CIC bioGUNE, Bizkaia Technology Park, Building 800, 48160 Derio, Spain

**Interests:** chemical biology; medicinal chemistry; infectious diseases; cancer; rare diseases; **Read more about our cookies here (about/privacy).**

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**Prof. Dr. Thomas L. Mindt** (<https://sciprofiles.com/profile/190936>)

**Website** (<http://www.applied-diagnostics.at/team-imaging-biomarkers/>)

*Editorial Board Member*

Head of Imaging Biomarkers, Ludwig Boltzmann Institute Applied Diagnostics, Vienna, Austria

**Interests:** radiopharmaceutical sciences; radiochemistry; radiometals; molecular imaging; theranostics; peptides



**Prof. Dr. Grzegorz Mloston**

**Website** (<http://www.chemia.uni.lodz.pl/professors/gmloston.html>)

*Editorial Board Member*

Department of Organic & Applied Chemistry, Faculty of Chemistry, University of Łódź, Tamka 12, PL-91403 Łódź, Poland

**Interests:** organic chemistry; chemistry of heterocyclic compounds; organic chemistry of sulfur; organic synthesis; reaction mechanisms; reactive intermediates; electrophilic and nucleophilic carbenes



**Dr. Barbara Modec** (<https://sciprofiles.com/profile/41288>)

**Website** ([https://www.fkkt.uni-lj.si/sl/zaposleni/oseba/modec-barbara/?no\\_cache=1&Hash=c64568c37934d275e47f802e28673e1a](https://www.fkkt.uni-lj.si/sl/zaposleni/oseba/modec-barbara/?no_cache=1&Hash=c64568c37934d275e47f802e28673e1a))

*Editorial Board Member*

Department of Chemistry and Chemical Technology, University of Ljubljana, 1000 Ljubljana, Slovenia

**Interests:** coordination chemistry of molybdenum; polyoxomolybdates; coordination chemistry of zinc; metal complexes in catalysis; crystal structure; vibrational spectroscopy

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**Dr. Antonio Monari** (<https://sciprofiles.com/profile/370663>)

**Website** (<https://www.inc.cnrs.fr/fr/personne/antonio-monari>)

*Editorial Board Member*

Theoretical Physics and Theoretical Chemistry Laboratory (LPCT), University of Lorraine and CNRS, Nancy, France

**Interests:** molecular modeling and simulation; theoretical photophysics and photochemistry; time resolved spectroscopy; non-adiabatic phenomena; structural biophysics; DNA photosensitization; DNA lesions and repair mechanism; epigenetic regulations

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**Prof. Dr. Manuel J. S. Monte** (<https://sciprofiles.com/profile/1924524>)

**Website** ([https://sigarra.up.pt/fcup/pt/func\\_geral.formview?p\\_codigo=201519](https://sigarra.up.pt/fcup/pt/func_geral.formview?p_codigo=201519))

*Editorial Board Member*

Department of Chemistry and Biochemistry, Faculty of Science, Centro de Investigação em Química (CIQUP), Rua do Campo Alegre, University of Porto, 4169-007 Porto, Portugal

**Interests:** thermochemistry; vapor pressure of pure compounds; energy of hydrogen bonding; enthalpy of phase transitions; solubility



**Prof. Dr. Daniela Montesarchio** (<https://sciprofiles.com/profile/33951>)

**Website** (<https://www.docenti.unina.it/daniela.montesarchio>)

*Editorial Board Member*

Department of Chemical Sciences, University of Naples Federico II, via Cintia 4, 80126 Naples, Italy

**Interests:** oligonucleotides; nucleoside analogues; unusual structures of DNA; G-quadruplex; Ru(II)-complexes; Pt(II)-complexes; metal-DNA interactions; small molecule-DNA interactions

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**Prof. Dr. Simone Morais** (<https://sciprofiles.com/profile/331210>)

**Website** ([https://laqv.requimte.pt/people/541-simone\\_morais](https://laqv.requimte.pt/people/541-simone_morais))

*Editorial Board Member*

REQUIMTE/LAQV, School of Engineering, Polytechnic Institute of Porto, 4249-015 Porto, Portugal

**Interests:** environmental chemistry; green chemistry; circular economy; (Bio)sensors; monitoring and biomonitoring; nanotechnology

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**Prof. Dr. Franca Morazzoni** (<https://sciprofiles.com/profile/975205>)

**Website** (<https://www.mater.unimib.it/en/research/research-areas/environment-and-energy-materials/chemistry-inorganic-and-organometallic-materials>)

*Editorial Board Member*

Laboratory of Inorganic and Hybrid Materials, Department of Materials Science, University of Milano-Bicocca, 20125 Milano, Italy

**Interests:** sensor materials; photocatalysis materials; inorganic-organic interphases; spectromagnetic characterization

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**Prof. Dr. Toshio Morikawa** (<https://sciprofiles.com/profile/32253>)

**Website** (<http://www.phar.kindai.ac.jp/research/curriculum/lab/o-03.html>)

*Editorial Board Member*

Pharmaceutical Research and Technology Institute, Kindai University, 3-4-1 Kowakae, Higashi-osaka, Osaka 577-8502, Japan

**Interests:** isolation and structure determination of bioactive natural products; synthetic studies on bioactive natural products; structure-activity relationship studies on bioactive natural products; studies of bioactive natural products on the application to pharmaceuticals, nutraceuticals, dietary supplements, cosmetics, and food additives; mechanisms of action of bioactive natural products

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**Prof. Dr. Gordon Morris** (<https://sciprofiles.com/profile/335181>)

**Website** (<https://pure.hud.ac.uk/en/persons/gordon-morris>)

*Editorial Board Member*

Department of Chemical Sciences, University of Huddersfield, Huddersfield, UK

**Interests:** hydrocolloids; chitosan; pectins; molecular weight; glycosaminoglycans

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**Prof. Dr. Thomas Müller** (<https://sciprofiles.com/profile/958432>)

**Website** (<https://www.ls-csc.rub.de/>)

*Editorial Board Member*

Carbon Sources and Conversion, Institut für Thermo- und Fluidodynamik, Fakultät für Maschinenbau, Ruhr-Universität Bochum, IC 2/145, Universitätsstraße 150, 44801 Bochum, Germany

**Interests:** energy system transformation; power-to-X; industrial chemistry; chemical reaction engineering of multiphase reactions; process intensification; heterogeneous and homogeneous catalysis; sustainability; green chemistry; carbon; CO<sub>2</sub> chemistry; hydrogen economy; life-cycle assessment

**Dr. Gerald Anthony Murphy** (<https://sciprofiles.com/profile/34623>)

*Editorial Board Member*

Formerly Colorants Research Basel, BASF Schweiz AG (retired), CH 4132 Muttenz, Switzerland

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**Interests:** synthesis of dyes and pigments; anthraquinone, cyanine, azo and cationic dyes; electronic materials; process development and process safety

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**Prof. Dr. Robert Musiol** (<https://sciprofiles.com/profile/24780>)

**Website** (<https://www.us.edu.pl/us-addressbook/emp/18502>)

*Editorial Board Member*

Institute of Chemistry, Faculty of Mathematics, Physics and Chemistry, University of Silesia, Szkolna 9, Katowice, Poland

**Interests:** quinoline chemistry and applications; anticancer agents; antifungals; drug design

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**Dr. Stephen Myers** (<https://sciprofiles.com/profile/309602>)

**Website** (<https://www.utas.edu.au/profiles/staff/health-sciences/stephen-myers>)

*Editorial Board Member*

Metabolic Disease Research Group, Senior Lecturer Laboratory Medicine, School of Health Sciences, College of Health and Medicine, University of Tasmania, Building C, Room C111, Newnham Campus, Launceston TAS 7250, Australia

**Interests:** Type 2 diabetes; cell signalling; insulin resistance; zinc biology; gene expression

**Prof. Dr. Atsushi Nakagawa** (<https://sciprofiles.com/profile/551617>)

**Website** (<http://www.protein.osaka-u.ac.jp/rcsfp/supracryst/en/>)

*Editorial Board Member*

Laboratory of Supramolecular Crystallography, Osaka University, Suita, Japan

**Interests:** structural Biology, X-ray crystallography, protein



**Dr. Monica Nardi** (<https://sciprofiles.com/profile/188305>)

**Website** (<https://web.unicz.it/it/page/dipartimento-di-scienze-della-salute>)

*Editorial Board Member*

Dipartimento di Scienze della Salute, Università Magna Graecia, Viale Europa, Germaneto, Catanzaro, Italy

**Interests:** catalysis; green chemistry; organic synthesis; natural compounds; sustainable chemical processes

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**Dr. Ali Nazemi** (<https://sciprofiles.com/profile/500395>)

**Website** (<https://professeurs.uqam.ca/professeur/nazemi.ali/>)

*Editorial Board Member*

Département de Chimie, Université du Québec à Montréal, C.P. 8888, Succursale Centre-Ville, Montréal, QC H3C 3P8, Canada

**Interests:** polymers; dendrimers; functional nanomaterials; self-assembly; inorganic nanoparticles; linear-dendritic block copolymers; metal-containing polymers and dendrimers; fluorinated materials; drug delivery; theranostics

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**Dr. Florentina Neatu** (<https://sciprofiles.com/profile/644777>)

**Website** (<http://infim.ro/@florentina-neatuintim-ro/>)

*Editorial Board Member*

National Institute of Materials Physics, Atomistilor 405A, 077125 Magurele, Romania

**Interests:** heterogeneous catalysis; selective oxidation reaction; green chemistry; nanomaterials

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**Dr. Nuno Neng** (<https://sciprofiles.com/profile/420910>)

**Website** (<https://cqe.tecnico.ulisboa.pt/members/12789>)

*Editorial Board Member*

Centro de Química Estrutural, Institute of Molecular Sciences, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Campo Grande, 1749-016 Lisboa, Portugal

**Interests:** analytical chemistry; sample preparation; microextraction techniques; chromatography; hyphenated techniques (GC-MS and LC-MS); environmental analysis; biological analysis

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**Dr. Ignacio Nevares** (<https://sciprofiles.com/profile/335104>)

**Website** (<https://investigacion.uva.es/CawDOS//jsf/seleccionActividades/seleccionActividades.jsf?id=5a2635728c0ade28&idioma=es&tipo=activ.&elmeucv=N>)

*Editorial Board Member*

Department of Agricultural and Forestry Engineering, University of Valladolid, Valladolid, Spain

**Interests:** oxygen; micro-oxygenation; woods for enology; oak barrel; permeability; solubility; automatization; wine aging; oak chips

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**Prof. Dr. Ferdinando Nicoletti** (<https://sciprofiles.com/profile/306473>)

**Website** (<http://www.biometec.unict.it/faculty/ferdinando.nicoletti>)

*Editorial Board Member*

Department of Biomedical and Biotechnological Sciences, University of Catania, 95124 Catania, Italy

**Interests:** autoimmune diseases; cancer; neurological diseases; psychiatric diseases; reactive oxygen species; reactive nitrogen species; nitric oxide; hydrogen sulfide; carbon monoxide; heme oxygenase

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**Prof. Dr. Francesco Nicotra** (<https://sciprofiles.com/profile/1582124>)

**Website** (<http://bioorgunimib.com/btbs/people-2/francesco-nicotra/>)

*Editorial Board Member*

Department of Biotechnology and Biosciences, Università degli Studi di Milano—Bicocca, Milan, Italy

**Interests:** organic chemistry; organic and biomolecular chemistry

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**Prof. Dr. Koh-hei Nitta** (<https://sciprofiles.com/profile/95743>)

**Website** ([https://ridb.kanazawa-u.ac.jp/public/detail\\_en.php?id=2560](https://ridb.kanazawa-u.ac.jp/public/detail_en.php?id=2560))

*Editorial Board Member*

Institute of Science and Engineering, Kanazawa University, Kakuma Campus, Kanazawa 920-1192, Japan

**Interests:** mechanical properties; morphology; polymer rheology

**Prof. Dr. Masha Niv** (<https://sciprofiles.com/profile/262796>)

**Website** (<https://biochem-food-nutrition.agri.huji.ac.il/mashaniv>)

*Editorial Board Member*

Hebrew University of Jerusalem, Jerusalem, Israel

**Interests:** Chemical senses; tastants; taste receptors; GPCRs; homology modeling; machine learning; sensory evaluation; bitter; sweet



**Prof. Dr. Valeria M. Nurchi** (<https://sciprofiles.com/profile/306666>)

**Website** ([https://unica.it/unica/it/ateneo\\_s07\\_ss01\\_page?contentId=SHD30642](https://unica.it/unica/it/ateneo_s07_ss01_page?contentId=SHD30642))

*Editorial Board Member*

Department of Life and Environmental Sciences, University of Cagliari, Cittadella Universitaria, I-09042 Monserrato, Cagliari, Italy

**Interests:** analytical chemistry; solution equilibria; bioorganic chemistry; chelating agents; toxic metal ions; environmental chemistry

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**Prof. Dr. Elisa Nuti** (<https://sciprofiles.com/profile/1141354>)

**Website** (<https://www.unipi.it/tema/risorse/gettingibashipie62ft&template=dettaglio3.tp>)

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Department of Pharmacy, University of Pisa, Via Bonanno 6, 56126 Pisa, Italy

**Interests:** medicinal chemistry; metallo-enzyme inhibitors; drug discovery; synthesis of biologically active compounds; fluorescent probes

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**Prof. Dr. Yasuko Obata**

**Website** (<https://researchmap.jp/read0044794>)

*Editorial Board Member*

Department of Pharmaceutics, Hoshi University, Tokyo, Japan

**Interests:** lipid lamellar structure in stratum corneum and development of transdermal formulation

**Prof. Dr. Tomohisa Ogawa** (<https://sciprofiles.com/profile/317198>)

**Website** (<https://tohoku.pure.elsevier.com/en/persons/tomohisa-ogawa>)

*Editorial Board Member*

Graduate School of Life Sciences, Tohoku University, 1-1 Tsutsumidori-amamiyamachi, Aoba-ku, Sendai 981-8555, Japan

**Interests:** proteins; peptides; protein engineering; molecular evolution; snake venom; lectin; biomimetic mineralization

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**Prof. Dr. Giorgia Oliviero** (<https://sciprofiles.com/profile/389427>)

**Website** (<https://www.docenti.unina.it/#!/professor/47494f524749414f4c49564945524f4c565247524737305336324739303256/riferimenti>)

*Editorial Board Member*

Department of Molecular Medicine and Medical Biotechnologies, University of Naples Federico II, Via Sergio Pansini 5, 80131 Napoli, Italy

**Interests:** nucleoside; nucleotide and nucleic acid analogues; spectrometric and spectroscopic analysis

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**Prof. Dr. Abdelwahab Omri** (<https://sciprofiles.com/profile/900500>)

**Website** (<https://laurentian.ca/faculty/aomri>)

*Editorial Board Member*

The Novel Drug & Vaccine Delivery Systems Facility, Department of Chemistry and Biochemistry, Laurentian University, Sudbury, ON P3E 2C6, Canada

**Interests:** antimicrobial resistances; antibiotic-antibiotic interactions; Pharmacokinetics and Pharmacodynamics and Natural products pharmacology

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**Dr. Jimmie C. Oxley**

**Website** (<https://www.chm.uri.edu/index.php/person-page/?person=joxley>)

*Editorial Board Member*

Chemistry Department, University of Rhode Island, Kingston, RI, USA

**Interests:** explosives; propellants; pyrotechnics; energetic materials; thermal hazards; kinetics

**Prof. Dr. Vittorio Pace**

**Website** (<https://drugsynthesis.univie.ac.at/>)

*Editorial Board Member*

Department of Chemistry, University of Turin, Turin, Italy

**Interests:** synthetic medicinal chemistry

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**Dr. Tibor Páli**

**Website** ([http://www.brc.hu/biophys\\_membrane\\_biophysics.php](http://www.brc.hu/biophys_membrane_biophysics.php))

*Editorial Board Member*

Institute of Biophysics, Biological Research Centre, Szeged, Hungary

**Interests:** biomembranes; biophysics; membrane proteins; protein structure prediction; protein folding; lipid-protein interaction; rotary enzymes; V-ATPase; free radicals; nitric oxide; food preservation; spectroscopy; electron paramagnetic resonance; electron spin; fluorescence; infrared spectroscopy; microcalorimetry; molecular modelling; computer programming



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**Prof. Dr. Yuanjiang Pan**

**Website** (<https://person.zju.edu.cn/0094165>)

*Editorial Board Member*

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Department of Chemistry, Zhejiang University, Hangzhou 310027, China  
**Interests:** mass spectrometric analysis; chiral analysis; pharmaceutical analysis



**Prof. Dr. Irene Panderi** (<https://sciprofiles.com/profile/354187>)  
**Website** ([https://www.researchgate.net/profile/Irene\\_Panderi](https://www.researchgate.net/profile/Irene_Panderi))

*Editorial Board Member*

Laboratory of Pharmaceutical Analysis, Division of Pharmaceutical Chemistry, School of Pharmacy, National and Kapodistrian University of Athens, Panepistimiopolis, Zografou, 15771 Athens, Greece

**Interests:** pharmaceutical analysis; analytical chemistry; drug analysis, metabolites; bioactive compounds; pharmaceuticals; cosmetics

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**Prof. Dr. Assunta Pandolfi** (<https://sciprofiles.com/profile/438513>)  
**Website** (<https://www.cast.unich.it/research-groups/pandolfi>)

*Editorial Board Member*

Department of Medical, Oral and Biotechnological Sciences, University "G. d'Annunzio", CeS.I.MeT, Via Luigi Polacchi, 11, 66013 Chieti, Italy

**Interests:** endothelial dysfunction; nitric oxide; insulin resistance; diabetes; inflammation and atherosclerosis; adult stem cells; regenerative medicine



**Dr. Gheorghe Dan Pantos** (<https://sciprofiles.com/profile/597085>)  
**Website** (<http://people.bath.ac.uk/gp304/>)

*Editorial Board Member*

Department of Chemistry, University of Bath, Bath BA2 7AY, UK

**Interests:** supramolecular chemistry; dynamic combinatorial chemistry; DNA ligands; borazine; host-guest interactions; chirality; porphyrinoid chemistry



**Dr. Constantina Papatrifiantafyllopoulou** (<https://sciprofiles.com/profile/683061>)

**Website** (<https://www.universityofgalway.ie/science-engineering/staff-profiles/constantinapapatrifiantafyllopo/>)

*Editorial Board Member*

School of Chemistry, National University of Ireland Galway, Galway, Ireland

**Interests:** magnetic sensors; single-molecule magnets; multifunctional materials; metal-organic frameworks; drug carriers

**Special Issues, Collections and Topics in MDPI journals**



**Dr. Mariacecilia Pasini** (<https://sciprofiles.com/profile/900845>)

**Website** (<http://www.scitec.cnr.it/personale/corti/mariacecilia-pasini>)

*Editorial Board Member*

Istituto di Scienze e Tecnologie Chimiche "Giulio Natta" (SCITEC), Consiglio Nazionale delle Ricerche (CNR), Sede Via A. Corti 12, 20133 Milano, Italy

**Interests:** conjugated molecules; semiconducting polymers; conjugated polar materials; optoelectronic applications; new lasing materials; OLED; OPV OFET; sensor; Carbon-dots; micro /nanostructured materials

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**Prof. Dr. Marçal Pastor-Anglada** (<https://sciprofiles.com/profile/503079>)

**Website** (<https://www.websid.es/ensayo/061-the-best-experiences-de-transport-rst/>)

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1. Department of Biochemistry and Molecular Biomedicine, Institute of Biomedicine (IBUB), University of Barcelona, Barcelona, Spain

2. Pediatric Oncology Program, Institut de Recerca Sant Joan de Déu (IR SJD), Esppluges de Llobregat, Barcelona, Spain

3. Oncology Program, National Biomedical Research Institute of Liver and Gastrointestinal Diseases (CIBER EHD), Instituto de Salud Carlos III, Madrid, Spain

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**Interests:** drug transporters; nucleoside analogs; anticancer therapy; antiviral therapy; mechanisms of drug action; nucleotide metabolism; oncogenesis



**Dr. Milosz Pawlicki** (<https://sciprofiles.com/profile/743407>)  
**Website** (<https://profile.chem.uni.wroc.pl/api/pl/profile/459>)

*Editorial Board Member*

Wydział Chemii, Uniwersytet Wrocławski, F. Joliot-Curie14, 50-383 Wrocław, Poland

**Interests:** organic synthesis; polycyclic aromatic hydrocarbons; aromaticity; antiaromaticity; macrocycles; porphyrinoids; fluorescence; supramolecular chemistry; nuclear magnetic resonance

**Dr. Beatriz Pelacho** (<https://sciprofiles.com/profile/523493>)

**Website** ([https://www.researchgate.net/profile/Beatriz\\_Pelacho](https://www.researchgate.net/profile/Beatriz_Pelacho))

*Editorial Board Member*

Center for Applied Medical Research, Regenerative Medicine Department, Pamplona, Spain

**Interests:** cardiovascular; regenerative medicine; stem cells; nanotechnology



**Prof. Dr. Alice L. Perez** (<https://sciprofiles.com/profile/11060>)

**Website** (<https://vinv.ucr.ac.cr/sigpro/web/researchers/106230486>)

*Editorial Board Member*

Universidad de Costa Rica, Escuela de Química, 2060 San Pedro, San Jose, Costa Rica

**Interests:** organic synthesis; 1,4-naphthoquinones; antitumoral; alkylation; lawsone; antiparasite



**Prof. Dr. Maurizio Peruzzini** (<https://sciprofiles.com/profile/996770>)

**Website** (<https://www.iupac.cnr.it/members/16-members/43-maurizio-peruzzini-en>)

*Editorial Board Member*

Consiglio Nazionale delle Ricerche (CNR) Istituto di Chimica dei Composti OrganoMetallici (ICCOM), Via Madonna del Piano 10, 50019 Sesto Fiorentino, FI, Italy

**Interests:** activation and functionalization of elemental phosphorus; activation of small inorganic and organic molecules; transition-metal hydrides and molecular hydrogen chemistry; materials for H-storage; carbon dioxide capture and valorization

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**Prof. Dr. Leonidas A. Phylactou** (<https://sciprofiles.com/profile/12660>)

**Website** (<https://www.cing.ac.cy/easyconsole.cfm/id/618>)

*Editorial Board Member*

Chief Executive Officer and Medical Director, The Cyprus Institute of Neurology & Genetics, PO Box 23462, Nicosia 1683, Cyprus

**Interests:** RNA biology; regulatory RNA molecules; extracellular vesicles; identification of genetic defects in inherited diseases

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**Dr. Vincenzo Piccialli** (<https://sciprofiles.com/profile/9313>)

**Website** ([https://www.docenti.unina.it/#/professor/56494e43454e5a4f5049434349414c4c4950434356434e35384532374230373755/orari\\_ricevimento](https://www.docenti.unina.it/#/professor/56494e43454e5a4f5049434349414c4c4950434356434e35384532374230373755/orari_ricevimento))

*Editorial Board Member*

Department of Chemical Sciences, University of Naples Federico II, Via Cinthia 4, 80126 Naples, Italy

**Interests:** organic and medicinal chemistry; organic synthesis; catalytic oxidative processes; marine natural products; nucleosides chemistry

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**Prof. Dr. Krzysztof Pieliuchowski** (<https://sciprofiles.com/profile/771266>)

**Website** (<https://recenzenci.opi.org.pl/sss-web/site/people-details?personId=ca53fc82b71f689>)

*Editorial Board Member*

Department of Chemistry and Technology of Polymers, Cracow University of Technology, ul. Warszawska 24, 31-155 Kraków, Poland

**Interests:** polymer nanocomposites; organic-inorganic hybrid materials; POSS; nanocellulose; layered silicates; functionalization; thermal properties; flammability; structure-property relationships

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**Prof. Dr. Mauro Pineschi** (<https://sciprofiles.com/profile/926518>)

**Website** ([https://people.unipi.it/mauro\\_pineschi/](https://people.unipi.it/mauro_pineschi/))

*Editorial Board Member*

Department of Pharmacy, University of Pisa, Pisa, Italy

**Interests:** synthetic methodologies; asymmetric synthesis; sustainable synthesis; copper catalysis; strained heterocycles; synthesis of heterocyclic scaffolds of medicinal interest

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**Dr. Thomas Poisson** (<https://sciprofiles.com/profile/511005>)

**Website** (<https://www.insa-rouen.fr/recherche/chercheurs/tpoisson>)

*Editorial Board Member*

Institut National Des Sciences Appliquées de Rouen Normandie, Saint-Etienne-du-Rouvray, France

**Interests:** catalyst; synthesis; organic synthesis; synthetic organic; chemistry; organic chemistry synthesis; organometallics; heterocyclic chemistry; synthetic chemistry; multistep synthesis; chemical synthesis

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**Prof. Dr. Ewa Poleszak** (<https://sciprofiles.com/profile/585567>)

**Website** (<https://www.umlub.pl/uczelnia/pracownicy/szczegoly.1637.html>)

*Editorial Board Member*

Chair and Department of Applied and Social Pharmacy, Medical University of Lublin, 20-093 Lublin, Poland

**Interests:** depression; anxiety; preclinical study; neuropharmacology; neuropsychopharmacology; toxicological and biochemical analysis

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**Prof. Dr. Vladimir A. Potapov** (<https://sciprofiles.com/profile/24116>)

**Website** (<https://irkinstchem.ru/laboratoriya-khalkogenorganicheskikh-soedinenij/>)

*Editorial Board Member*

AE Favorsky Irkutsk Institute of Chemistry, Siberian Branch, Russian Academy of Sciencesdisabled, Irkutsk, Russia

**Interests:** chalcogen-containing heterocycles; functionalized organoselenium compounds; chalcogen electrophilic reagents; organotellurium compounds; chalcogen cyclofunctionalization reactions; vinyl chalcogenides; chalcogen annelation reactions

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**Dr. Sanja Potgieter-Vermaak** (<https://sciprofiles.com/profile/672301>)

**Website** (<https://www.mmu.ac.uk/natural-sciences/staff/profile/index.php?id=2369>)

*Editorial Board Member*

Department of Natural Science, Ecology and Environment Research Centre, Manchester Metropolitan University, Manchester M1 5GD, UK

**Interests:** air quality; health; bioaccessibility of pollutants; automated single particle analysis; micro Raman spectroscopy



**Prof. Dr. Cristina Prandi** (<https://sciprofiles.com/profile/39729>)

**Website** (<https://www.chemis.unife.it/do/documenti/Alas2spitlaa/grandi>)

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Department of Chemistry, University of Turin, via P. Giuria 7, 10125 Torino, Italy

**Interests:** organometallic chemistry; organic synthesis in nonconventional solvents; green chemistry; DES; gold catalysis; natural products synthesis

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**Prof. Dr. Marcelo Daniel Preite** (<https://sciprofiles.com/profile/11065>)

**Website** (<http://quimica.uc.cl/en/faculty/faculty/116-preite-marcelo>)

*Editorial Board Member*

Facultad de Química, Pontificia Universidad Católica de Chile, VicuñaMackenna 4860, Casilla 306, 7820436 Macul, Santiago, Chile

**Interests:** organic synthesis; stereoselective synthesis; asymmetric synthesis; chiral auxiliaries and catalysts; main-group metals in synthesis

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**Prof. Dr. Alicia Prieto** (<https://sciprofiles.com/profile/658597>)

*Editorial Board Member*

Centro de Investigaciones Biológicas Margarita Salas, Consejo Superior de Investigaciones Científicas, Ramiro de Maeztu 9, 28040 Madrid, Spain

**Interests:** biotransformations catalyzed by lipases and glycosyl hydrolases; enzyme immobilization; valorization of biomass and wastes; biofuels, materials, and chemicals from renewable resources; enzymatic synthesis and degradation of plastics; polysaccharides



**Dr. Thomas E. Prisinzano** (<https://sciprofiles.com/profile/521092>)

**Website** (<https://pharmacy.uky.edu/people/thomas-prisinzano>)

*Editorial Board Member*

University of Kentucky, Lexington, United States

**Interests:** medicinal chemistry; natural products; organic synthesis; structure-activity relationships; neuroscience



**Dr. Stefano Protti** (<https://sciprofiles.com/profile/635652>)

**Website** ([http://www-2.unipv.it/photogreenlab/protti\\_en.php](http://www-2.unipv.it/photogreenlab/protti_en.php))

*Editorial Board Member*

PhotoGreen Lab, Department of Chemistry, University of Pavia, Viale Taramelli 12, 27100 Pavia, Italy

**Interests:** photochemistry; visible light processes; green chemistry; multicomponent reactions



**Prof. Dr. Francesco Puoci** (<https://sciprofiles.com/profile/462>)

**Website** ([https://www2.unical.it/portale/strutture/dipartimenti\\_240/dfssn/areastudenti/avvisi\\_docenti/puoci/](https://www2.unical.it/portale/strutture/dipartimenti_240/dfssn/areastudenti/avvisi_docenti/puoci/))

*Editorial Board Member*

Dipartimento di Scienze Farmaceutiche, Università della Calabria, Edificio Polifunzionale, 87036 Arcavacata di Rende, Italy

**Interests:** molecularly imprinted polymers; functional materials for biomedical applications

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**Prof. Dr. Paolo Quadrelli** (<https://sciprofiles.com/profile/76650>)

**Website** (<http://chimica.unipv.eu/site/home/persona/scheda700003454.html>)

*Editorial Board Member*

Department of Chemistry, Università degli Studi di Pavia, Pavia, Italy

**Interests:** pericyclic reactions; 1,3-dipolar cycloadditions; hetero diels-alder reactions; antivirals; catalysis; polymers

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**Prof. Dr. Maria João Queiroz** (<https://sciprofiles.com/profile/129860>)

**Website** (<http://www.cq.uminho.pt/team/maria-joao-queiroz>)

*Editorial Board Member*

Centre of Chemistry (CQUM), Campus de Gualtar, University of Minho, 4710-057 Braga, Portugal

**Interests:** metal-catalyzed reactions (cross-couplings; C-H activation; and carbonylations); nucleophilic aromatic substitution; heterocycles of N and/or S; antitumoral compounds

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**Prof. Dr. Andrzej Rajca** (<https://sciprofiles.com/profile/11072>)

**Website** (<http://www.chem.unl.edu/rajca/rajcahome.html>)

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*Editorial Board Member*

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Department of Chemistry, University of Nebraska, Lincoln, NE 68588-0304, USA

**Interests:** stable organic radicals and polyradicals; synthesis; magnetism and biomedical applications (paramagnetic contrast agents and spin labels);

Helicenes and tetraarylenes; asymmetric and diastereoselective syntheses; chiroptical properties

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**Prof. Dr. Olof Ramström**

**Website** (<https://www.uml.edu/sciences/chemistry/faculty/ramstrom-olof.aspx>)

*Editorial Board Member*

1. Department of Chemistry, University of Massachusetts Lowell, One University Ave., Lowell, MA 01854, USA
2. Department of Chemical and Biomedical Sciences, S-39182 Kalmar, Sweden

**Interests:** bioorganic chemistry, dynamic chemistry, supramolecular chemistry, carbohydrate chemistry, molecular recognition, biointerfaces, biomimetic chemistry



**Dr. Imma Ratera** (<https://sciprofiles.com/profile/217797>)

**Website** (<https://projects.icmab.es/nanomol/>)

*Editorial Board Member*

Nanomol Group, Institut of Materials Science of Barcelona (ICMAB-CSIC), Barcelona, Spain

**Interests:** functional molecular materials; nanomaterials; biomaterials; molecular electronics and optoelectronics; electroactive molecules; donor-acceptor molecules; switchable molecular materials; self-assembly monolayers (SAMs); supramolecular chemistry; organic radicals; organic (soft) nanoparticles; hydrogels; surface science; cell-material interface

**Dr. Jeremy M. Rawson**

**Website** (<http://www.thiazyl.com/Biography.html>)

*Editorial Board Member*

Canada Research Chair in Molecular Materials, Dept of Chemistry and Biochemistry, The University of Windsor, 401 Sunset Avenue, Windsor, ON N9B 3P4, Canada

**Interests:** molecular magnetism; organic magnet; ferromagnet; antiferromagnet; ferrimagnet; density functional theory; exchange interaction

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**Prof. Dr. Suman Sinha Ray** (<https://sciprofiles.com/profile/931782>)

**Website** (<https://mie.uic.edu/profiles/suman-sinha-ray/>)

*Editorial Board Member*

Department of Mechanical and Industrial Engineering, University of Illinois Chicago, Chicago, IL 60607-7022, USA

**Interests:** nonwovens; electrospinning; solution blowing; melt blowing; advanced manufacturing; micro/nanoscale thermal-fluid; polymer and oxide materials; nano-structured materials; drug delivery; alternative energy; building science; acoustics

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**Prof. Dr. Oliver Reiser** (<https://sciprofiles.com/profile/10710>)

**Website** (<http://www-oc.chemie.uni-regensburg.de/reiser/index.html>)

*Editorial Board Member*

Institut für Organische Chemie, Universität Regensburg, Universitätsstr. 31, 93053 Regensburg, Germany

**Interests:** asymmetric catalysis; stereoselective synthesis; natural product; synthesis; unnatural amino acids; foldamers

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**Prof. Dr. Olivier Renaudet** (<https://sciprofiles.com/profile/2218855>)

**Website** (<http://dcm.ujf-grenoble.fr/DCM-SITE/I2BM/index.php?page=DCM-SITE/I2BM/curriculum&Code=crenol&labo=I2BM>)

*Editorial Board Member*

Department of Molecular Chemistry, University Grenoble-Alpes, Saint-Martin-d'Hères, France

**Interests:** carbohydrates; peptides; multivalency; chemical ligations; glycoconjugates; synthetic vaccines; antiadhesive agents; lectins; microarrays

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**Prof. Dr. MoReza Ghafari** (<https://sciprofiles.com/profile/2215398>)

**Website** (<http://www.scripps.edu/~ghafari/> (privacy)).

*Editorial Board Member*

Department of Chemistry, The Scripps Research Institute, San Diego, CA, USA

**Interests:** chemistry; supramolecular chemistry; chemical biology; peptides; synthetic proteins; molecular computation; antimicrobials; gut microbiome

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**Dr. Silvie Rimpelová** (<https://sciprofiles.com/profile/845565>)

**Website** (<https://telefon.vsch.tz/en/Person/796>)

*Editorial Board Member*

Department of Biochemistry and Microbiology, University of Chemistry and Technology Prague, Technická 5, Prague 6, Czech Republic

**Interests:** biocompatible materials; mammalian cells; cell adhesion; antimicrobial activity; anticancer activity; plasma treatment; laser modification; fluorescence microscopy; photodynamic therapy; theranostics

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**Dr. Teresa A. P. Rocha-Santos** (<https://sciprofiles.com/profile/114405>)

**Website** (<https://clarivate.com/highly-cited-researchers/2022/>) **Website** (<http://www.cesam.ua.pt/teralex>)

*Editorial Board Member*

Centre for Environmental and Marine Studies (CESAM) & Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal

**Interests:** plastics; nanoplastics; microplastics

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**Dr. Michelle Roche** (<https://sciprofiles.com/profile/1140965>)

**Website** (<https://www.nuigalway.ie/our-research/people/michelleroche/>)

*Editorial Board Member*

Physiology, School of Medicine, National University of Ireland, Galway, Ireland

**Interests:** animal models; pain; depression; autism; stress; cannabinoid; neuroinflammation; brain

**Special Issues, Collections and Topics in MDPI journals**

**Prof. Dr. Camillo Rosano** (<https://sciprofiles.com/profile/1086234>)

**Website** ([https://www.researchgate.net/profile/Camillo\\_Rosano](https://www.researchgate.net/profile/Camillo_Rosano))

*Editorial Board Member*

Azienda Ospedaliera Universitaria San Martino di Genova

**Interests:** structural biology and protein crystallography; rational drug design; drug discovery in oncology; calix[n]pyrroles in medicinal chemistry; natural compounds



**Dr. Andrei Rotaru** (<https://sciprofiles.com/profile/158291>)

**Website** (<https://scholar.google.com/citations?user=Wm7uNKYAAAAJ&hl=en&oi=ao>)

*Editorial Board Member*

1. Department of Biology and Environmental Engineering, University of Craiova, Str. A.I. Cuza, Nr. 13, 200585 Craiova, Romania

2. Institute of Physical Chemistry "Ilie Murgulescu", Romanian Academy, Department of Chemical Thermodynamics, Splaiul Independentei, Nr. 202, 060021 Bucharest, Romania

**Interests:** physical chemistry of materials, thermophysical properties of solids, thermal analysis and calorimetry, kinetics & thermodynamics of heterogeneous processes; diffusional properties; dynamic processes in relaxors; structure-properties relation in electroceramics; thin films of soft molecular compounds

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**Prof. Dr. René Roy** (<https://sciprofiles.com/profile/11066>)

**Website** (<https://www.nanoqam.uqam.ca/professeur.php?id=8&lang=en>)

*Editorial Board Member*

Department of Chemistry, Université du Québec à Montréal, P.O. Box 8888, Succ. Centre-Ville, Montreal, QC H3C 3P8, Canada

**Interests:** carbohydrate chemistry; vaccines; dendrimers

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**Prof. Dr. Wilfried Rozhon** (<https://sciprofiles.com/profile/211222>)

**Website** (<https://www.hs-anhalt.de/hochschule-anhalt/service/personenverzeichnis/prof-dr-wilfried-rozhon.html>)

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*Editorial Board Member*

Department of Agriculture, Ecotrophology, and Landscape Development, Anhalt University of Applied Sciences, 06406 Bernburg, Saxony-Anhalt, Germany

**Interests:** plant nutrition; orphan crops; analytical methods, including HPLC, UHPLC, GC, mass spectrometry, optical spectroscopy, electrophoresis and quantitative PCR; separation and analysis of chiral molecules; enzyme assays; inhibitors

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**Prof. Dr. Ramón G. Rubio** (<https://sciprofiles.com/profile/2258317>)

**Website** (<https://www.ucm.es/quimicafisica1/directorio/?id=1865>)

*Editorial Board Member*

Department of Physical Chemistry and Instituto Pluridisciplinar, Complutense University, 28040 Madrid, Spain

**Interests:** interfacial rheology; microrheology; vesicles; liposomes and nanocapsules; polyelectrolyte and surfactant mixtures; adsorption at interfaces; pickering emulsions



**Prof. Dr. H. P. Vasantha Rupasinghe** (<https://sciprofiles.com/profile/45116>)

**Website** (<https://www.dal.ca/faculty/agriculture/plant-food-env/faculty-staff/our-faculty/vasantha-rupasinghe.html>)

*Editorial Board Member*

Department of Plant, Food, and Environmental Sciences, Faculty of Agriculture, Dalhousie University, Truro, NS B2N 5E3, Canada

**Interests:** dietary antioxidants; phytochemicals; polyphenols; flavonoids and their derivatives; chemoprevention; molecular mechanisms of action; DNA damage signaling and DNA repair

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**Prof. Dr. Patrizia Russo** (<https://sciprofiles.com/profile/15441>)

**Website** (<https://www.uniroma5.it/>)

*Editorial Board Member*

1. IRCCS San Raffaele Pisana, Area of Clinical and Molecular Epidemiology, 00166 Rome, Italy

2. Department of Human Sciences and Quality of Life Promotion, San Raffaele University, Via di Val Cannuta, 247, I-00166 Rome, Italy

**Interests:** general pathology; history of medicine; SARS-COV-2; COPD; cancer; nicotine addiction

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**Prof. Dr. Peter J. Rutledge** (<https://sciprofiles.com/profile/86725>)

**Website** (<https://www.sydney.edu.au/science/about/our-people/academic-staff/peter-rutledge.html>)

*Editorial Board Member*

School of Chemistry, The University of Sydney, Sydney, NSW 2006, Australia

**Interests:** antibiotics chemistry; biosynthesis; chemosensors and molecular probes; biocatalysis and bioinspired catalysis; hydrocarbon oxidation and C-H activation

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**Prof. Dr. Jacek Ryl** (<https://sciprofiles.com/profile/517905>)

**Website** (<https://mostwiedzy.pl/en/jacek-ryl,740034-1>)

*Editorial Board Member*

Institute of Nanotechnology and Materials Engineering, Faculty of Applied Physics and Mathematics, Gdansk University of Technology, 80-233 Gdansk, Poland

**Interests:** applied electrochemistry; corrosion science; surface engineering; surface chemistry; non-stationary processes

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**Dr. Simona Sagona** (<https://sciprofiles.com/profile/946202>)

**Website** (<https://etd.adm.unipi.it/etd-05172013-135858/>)

*Editorial Board Member*

Department of Pharmacy, University of Pisa, Via Bonanno 6, 56126 Pisa, Italy

**Interests:** honeybees; solitary bees; enzymes; biochemistry; diet effect; bees' behaviour; glucose oxidase; phenoloxidase; antioxidant enzymes; proteome

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**Dr. Nurettin Sahiner** (<https://sciprofiles.com/profile/1142322>)

**Website** (<https://health.usf.edu/medicine/eye/faculty/nsahiner/>)

*Editorial Board Member*

1. Department of Ophthalmology, Morsani College of Medicine, University of South Florida, 12901 Bruce B. Down Blvd., MDC 21, Tampa, FL 33612, USA

2. Department of Chemistry, Faculty of Science and Arts, Terzioyluc Campu, 17100 Canakkale, Turkey

**Interests:** macromolecules; biopolymer; biomolecules; polymers; natural polymer; biocompatibility; hydrogel; cryogel; microgel; nanogel; drug delivery; catalyst; energy; hydrogen (H<sub>2</sub>); antioxidant

**Prof. Dr. Maria Luisa Saladino** (<https://sciprofiles.com/profile/614665>)

**Website** (<https://www.unipa.it/persone/docenti/marialuisa.saladino>)

*Editorial Board Member*

STEBICEF Department, University of Palermo, Palermo, Italy

**Interests:** luminescent nanoparticles; mesoporous silica materials; controlled release systems; polymeric nanocomposites; innovative materials for conservation of cultural heritage; non invasive methods and multi

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**Dr. Claudio J. Salomón** (<https://sciprofiles.com/profile/10849>)

**Website** (<https://dai.unr.edu.ar/noticia/3467/observatorio-de-acciones-internacionales-entrevista-al-dr-claudio-salomon>)

*Editorial Board Member*

Rosario Institute of Chemistry, National Council for Scientific and Technical Research, National University of Rosario (IQUIR—CONICET—UNR), Rosario 2000, Argentina

**Interests:** design of pharmaceutical dosage forms; micro- and nanotechnology; tropical neglected diseases; pharmaceutical quality by design approaches; polymers gels

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**Prof. Dr. Claudio Santi** (<https://sciprofiles.com/profile/114651>)

**Website** (<https://csgroup.jimdofree.com/santi/>)

*Editorial Board Member*

Department of Pharmaceutical Sciences, Group of Catalysis and Organic Grenn Chemistry, University of Perugia, 06123 Perugia PG, Italy

**Interests:** selenium and sulfur chemistry; redox catalysis; bioorganic chemistry

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**Prof. Dr. Satyajit Sarker** (<https://sciprofiles.com/profile/67387>)

**Website** (<https://www.jmu.ac.uk/about-us/staff-profiles/faculty-of-science/pharmacy-and-biomolecular-sciences/satyajit-sarker>)

*Editorial Board Member*

School of Pharmacy and Biomolecular Sciences, Faculty of Science, Liverpool John Moores University, 81 Tithebarn St, Liverpool L2 2ER, UK

**Interests:** phytochemistry; phytomedicine; phytotherapy; natural products synthesis; structure elucidation; NMR, HPLC, chromatography; bioassay

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**Dr. Michele Simeone** (<https://sciprofiles.com/profile/1394931>)

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*Editorial Board Member*

Istituto di Cristallografia- Consiglio Nazionale delle Ricerche via Amendola 122/O, 70126 Bari, Italy

**Interests:** molecular recognition; molecular and structural biology and biochemistry; structural biology (crystallography and EM); biological systems analysis;

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### Hormesis and Ginseng: Ginseng Mixtures and Individual Constituents Commonly Display Hormesis Dose Responses, Especially for Neuroprotective Effects

by Edward J. Calabrese

Molecules 2020, 25(11), 2719; <https://doi.org/10.3390/molecules25112719> - 11 Jun 2020

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**Abstract** This paper demonstrates that ginseng mixtures and individual ginseng chemical constituents commonly induce hormetic dose responses in numerous biological models for endpoints of biomedical and clinical relevance, typically providing a mechanistic framework. The principal focus of ginseng hormesis-related research has been directed toward [...] [Read more.](#)

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by Jiapeng Li and Hao-Jie Zhu

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**Abstract** Liquid chromatography-tandem mass spectrometry (LC-MS/MS)-based proteomics is a powerful tool for identifying and quantifying proteins in biological samples, outperforming conventional antibody-based methods in many aspects. LC-MS/MS-based proteomics studies have revealed the protein abundances of many drug-metabolizing enzymes and transporters (DMETs) in tissues relevant [...] [Read more.](#)

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by Ulrike Junghans, Justin J. Bernhardt, Ronja Wollnik, Dominik Triebert, Gerd Unkelbach and Daniela Pufky-Heinrich

Molecules 2020, 25(11), 2717; <https://doi.org/10.3390/molecules25112717> - 11 Jun 2020

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**Abstract** The extraction and characterization of defined and carboxyl-rich oligomeric lignin fragments with narrow molecular weight distribution is presented herein. With regard to the well-known pulp bleaching process, oxidative lignin depolymerization was investigated using hydrogen peroxide in an aqueous alkaline solution (i.e., at T [...] [Read more.](#)

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*Molecules* 2020, 25(11), 2502; <https://doi.org/10.3390/molecules25112502> - 28 May 2020

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**Abstract** Parkinson's disease (PD) is a multifactorial neurodegenerative disease. In recent years, several studies demonstrated that the gastroenteric system and intestinal microbiome influence central nervous system function. The pathological mechanisms triggered thereby change neuronal function in neurodegenerative diseases including dopaminergic neurons in Parkinson's disease. [...] [Read more.](#)


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by  Retno Widyowati,  Melanny Ika Sulistyowaty,  Nguyen Hoang Uyen,

 Sachiko Sugimoto,  Yoshi Yamano,  Hideaki Otsuka and  Katsuyoshi Matsunami

*Molecules* 2020, 25(11), 2500; <https://doi.org/10.3390/molecules25112500> - 28 May 2020

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**Abstract** In our continuing research for bioactive constituents from natural resources, a new methyl threonolactone glucopyranoside (**1**), a new methyl threonolactone fructofuranoside (**2**), 2 new pyroglutamates (**3** and **4**), and 10 known compounds (**5–14**) [...] [Read more.](#)

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*Molecules* 2020, 25(11), 2499; <https://doi.org/10.3390/molecules25112499> - 27 May 2020

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*Molecules* 2020, 25(11), 2498; <https://doi.org/10.3390/molecules25112498> - 27 May 2020

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**Abstract** Abnormal protein aggregation has been intensively studied for over 40 years and broadly discussed in the literature due to its significant role in neurodegenerative diseases etiology. Structural reorganization and conformational changes of the secondary structure upon the aggregation determine aggregation pathways and cytotoxicity [...] [Read more.](#)

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Article

# New Methyl Threonolactones and Pyroglutamates of *Spilanthes acmella* (L.) L. and Their Bone Formation Activities

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**Abstract:** In our continuing research for bioactive constituents from natural resources, a new methyl threonolactone glucopyranoside (**1**), a new methyl threonolactone fructofuranoside (**2**), 2 new pyroglutamates (**3** and **4**), and 10 known compounds (**5–14**) were isolated from the whole plant of *Spilanthes acmella* (L.) L. The structures of these compounds were determined based on various spectroscopic and chemical analyses. All of the isolated compounds were evaluated on bone formation parameters, such as ALP (alkaline phosphatase) and mineralization stimulatory activities of MC3T3-E1 cell lines. The results showed that the new compound, 1,3-butanediol 3-pyroglutamate (**4**), 2-deoxy-D-ribo-1,4-lactone (**6**), methyl pyroglutamate (**7**), ampelopsionoside (**10**), icaraside B<sub>1</sub> (**11**), and benzyl  $\alpha$ -L-arabinopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside (**12**) stimulated both ALP and mineralization activities.

**Keywords:** *Spilanthes acmella*; alkaline phosphatase; mineralization; methyl threonolactone; pyroglutamate

## 1. Introduction

Osteoporosis is an age-related chronic disease characterized by a decrease of bone mineral density and an increased risk of bone fracture. As the population in the world ages, osteoporosis is becoming an important social problem. In the world, more than 200 million people are suffering from osteoporosis. Approximately 50% of women over 50 years old will have an osteoporosis-related fracture in their lifetime. An imbalance of bone remodeling causes osteoporosis through bone resorption by osteoclasts and bone formation by osteoblasts. Insufficient bone formation is an essential cause of osteoporosis. Mesenchymal stem cells differentiate to osteoblasts with activation of alkaline phosphatase (ALP) and bone mineralization, which are regulated by a variety of molecules such as Runt-related transcription factor 2 (Runx2), bone morphogenetic proteins (BMPs), and estrogen [1].

*Spilanthes* is a genus comprising over 60 species that are widely distributed in tropical and subtropical regions of the world, such as Africa, America, Borneo, India, Sri Lanka, and Asia [2,3]. *Spilanthes acmella* (L.) L. (Asteraceae) has commonly been used as a folk remedy, e.g., for toothaches,



skin diseases, sexual deficiencies [4], rheumatism, fever, antioxidant [5], dysentery, snakebite, stammering in children [3], antiseptics, antibacterials, antifungals, antimalarials, influenza, cough, rabies, and tuberculosis [6,7]. It is also known to have been used as a panacea (Sumatra, Indonesia), the remedy of toothaches (Sudan), stomatitis (Java, Indonesia), and wound healing (India) [8].

The main constituents from the whole aerial parts, flower heads, and roots of this plant are spilanthol and acmellonate used to reduce toothaches, to induce saliva secretion [4,6,9], as powerful insecticides [10,11], and as local anesthetics [3]. It is also an important source of highly valuable bioactive compounds, such as phenolics, coumarins, triterpenoids [12], and flavonoids [13].

In our previous study, a combination of 70% ethanol extract of this plant and physical exercise increased testosterone level and osteoblast cell differentiation against glucocorticoid-induced osteoporotic male mice [14]. In addition, the 1-butanol and water layers of a 70% ethanol extract of this plant stimulated an osteoblast cell marker, ALP, of MC3T3-E1 osteoblast-like cells (126% and 127%, respectively) [15]. Based on these results, this plant extract seems to have the potential to be used as osteoporotic therapy by increasing bone formation. Therefore, it is important to know which compounds support these activities to understand the molecular basis and future development of the anti-osteoporotic remedy.

In this study, our further investigation on the chemical constituents of the 1-butanol layer demonstrated the presence of 2 new methyl threonolactone glycosides, 2-C-methyl-D-threono-1,4-lactone-3-O- $\beta$ -D-glucopyranoside (1) and 2-C-methyl-D-threono-1,4-lactone-2-O- $\alpha$ -D-fructofuranoside (2); 2 new pyrroglutamates, 1,3-butanediol 1-pyrroglutamate (3) and 1,3-butanediol 3-pyrroglutamate (4); and 10 known compounds, 2-C-methyl-D-threono-1,4-lactone (5) [16], 2-deoxy-D-ribo-1,4-lactone (6) [17], methyl pyrroglutamate (7) [18], dendranthemoside A (8) [19], dendranthemoside B (9) [19], ampelopsionoside (10) [20], icaraside B<sub>1</sub> (11) [21], benzyl  $\alpha$ -L-arabinopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside (12) [22], chicoriin (13) [23], and uridine (14) [24] (Figure 1). These compounds were isolated using various chromatographic techniques, such as silica gel, octadecylsilylated silica gel (ODS), and HPLC. The chemical structures were then determined by spectroscopic analyses using infrared (IR), high-resolution electrospray ionization mass spectrometry (HR-ESI-MS), 1D, and 2D NMR (Figures S1–S32). Besides, the isolated compounds were evaluated on bone formation parameters. Among them, 4, 6, 7, 10, 11, and 12 showed osteoblast stimulation activities.

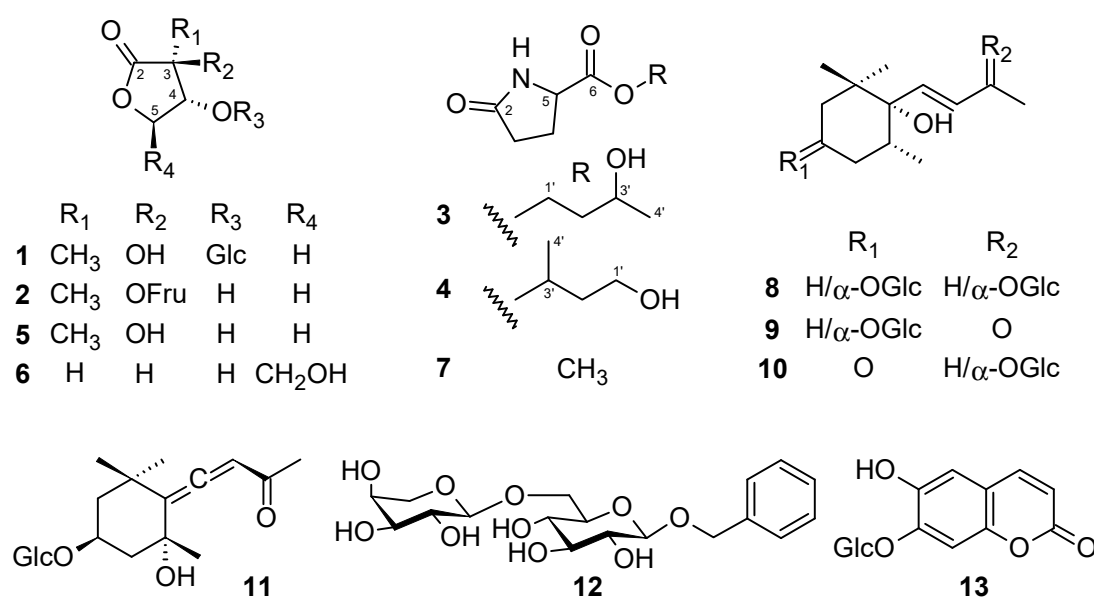


Figure 1. Structures of compounds 1–13.

## 2. Results and Discussion

### 2.1. Identification of Compounds

The 1-butanol layer of a methanol extract of *S. acmella* was fractionated with the guide of osteoblastic activity. As a result, 14 compounds (**1–14**) were isolated using several types of chromatography. Among the four new compounds, two methyl threonolactone were found to be glycosylated with a different monosaccharide, D-glucose, and D-fructose (**1** and **2**), respectively, and the other two were positional isomers of glutamate with 1,3-butanediol (**3** and **4**).

#### 2.1.1. Structure of 2-C-methyl-D-threono-1,4-lactone-3-O-β-D-glucopyranoside (**1**)

Compound **1** was obtained as a colorless amorphous powder with a molecular formula of C<sub>11</sub>H<sub>18</sub>O<sub>9</sub> as determined by HR-ESI-MS at an *m/z* of 317.0845 [M + Na]<sup>+</sup> (calcd for C<sub>11</sub>H<sub>18</sub>O<sub>9</sub>Na: 317.0843). The IR spectrum implied the presence of carbonyl (1777 cm<sup>-1</sup>), hydroxy groups (3392 cm<sup>-1</sup>), and C-O linkage (1210 and 1078 cm<sup>-1</sup>). The <sup>1</sup>H-NMR spectrum (Table 1) displayed signals due to a methyl proton at δ<sub>H</sub> 1.41 (3H, s); four oxygenated methylene protons at δ<sub>H</sub> 3.60 (1H, dd, *J* = 11.6, 7.4 Hz), 3.91 (1H, dd, *J* = 11.6, 2.5 Hz), 4.10 (1H, dd, *J* = 9.5, 6.4 Hz), and 4.52 (1H, dd, *J* = 9.5, 6.5 Hz); five oxygenated methine protons at δ<sub>H</sub> 3.238 (1H, dd, *J* = 9.2, 7.7 Hz), 3.237 (1H, dd, *J* = 9.8, 9.1 Hz), 3.34 (1H, ddd, *J* = 9.8, 7.4, 2.5 Hz), 3.36 (1H, t-like, *J* = 9.1 Hz), and 4.43 (1H, t-like, *J* = 6.5 Hz); and an anomeric proton at δ<sub>H</sub> 4.37 (1H, d, *J* = 7.7 Hz) that indicated the presence of a glycosyl moiety. A lactone moiety was also indicated from three degrees of unsaturation, the relatively higher wavenumber of carbonyl (1777 cm<sup>-1</sup>), the esterified low field-shifted chemical shifts, and non-equivalency of H-5α (δ<sub>H</sub> 4.10, 1H, dd, *J* = 9.5, 6.4 Hz) and H-5β (δ<sub>H</sub> 4.52, 1H, dd, *J* = 9.5, 6.5 Hz).

**Table 1.** <sup>1</sup>H-NMR spectroscopic data for compounds **1–4**.

Position	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
3	-	-	2.31 ddd (17.1, 9.9, 5.5) 2.37 ddd (17.1, 9.4, 7.3)	2.32 ddd (16.9, 9.7, 5.6) 2.37 ddd (16.9, 9.4, 7.1)
4	4.43 t-like (6.5)	4.17 dd (5.5, 4.4)	2.16 m 2.48 m	2.17 dddd (13.0, 9.4, 5.6, 4.7) 2.49 dddd (13.0, 9.7, 9.2, 7.1)
5	4.10 dd (9.5, 6.4, α) 4.52 dd (9.5, 6.5, β)	3.97 dd (9.4, 4.4, α) 4.48 dd (9.4, 5.5, β)	4.29 dd (9.1, 4.4)	4.24 dd (9.2, 4.7)
6	1.41 s (3H)	1.35 s (3H)	-	-
1'	4.37 d (7.7)	3.63 d (12.1) 3.71 d (12.1)	4.27 m (2H)	3.65 dt-like (10.6, 6.3) 3.68 dt-like (10.6, 6.7)
2'	3.238 dd (9.2, 7.7)	-	1.75 m 1.79 m	1.62 dtd (13.8, 6.7, 4.8) 1.67 ddt (13.8, 7.7, 6.3)
3'	3.36 t-like (9.1)	4.04 d (4.2)	3.86 dqd (8.2, 6.3, 4.4)	3.89 dqd (7.7, 6.3, 4.8)
4'	3.237 dd (9.8, 9.1)	3.89 dd (6.4, 4.2)	1.20 d (3H, 6.3)	1.18 d (3H, 6.3)
5'	3.34 ddd (9.8, 7.4, 2.5)	3.84 ddd (6.4, 4.9, 3.1)		
6'	3.60 dd (11.6, 7.4) 3.91 dd (11.6, 2.5)	3.64 dd (11.9, 4.9) 3.78 dd (11.9, 3.1)		

600 MHz (methanol-*d*<sub>4</sub>). Chemical shifts (δ) in ppm. m: multiplet or overlapped signals.

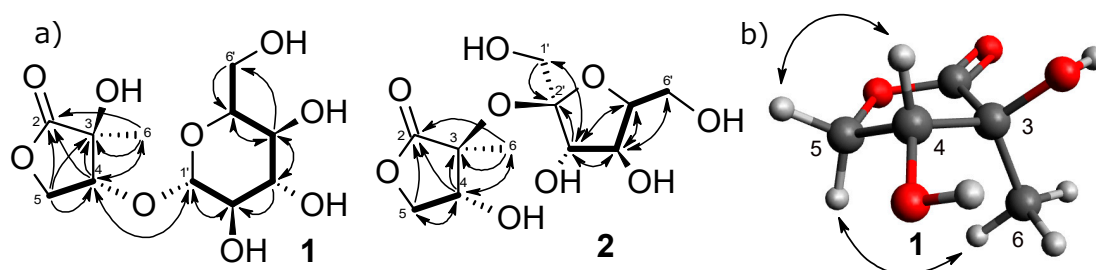
The <sup>13</sup>C-NMR spectrum (Table 2) of **1** showed 11 carbon resonances that were classified by chemical shift values and the HSQC spectrum into a methyl carbon (δ<sub>C</sub> 19.2), two oxygenated methylene carbons (δ<sub>C</sub> 63.2 and 69.6), five oxygenated methine carbons (δ<sub>C</sub> 72.2, 74.9, 78.1, 78.2, and 83.4), a quaternary carbon (δ<sub>C</sub> 75.7), an anomeric carbon (δ<sub>C</sub> 104.0) and a carbonyl carbon at δ<sub>C</sub> 179.4. The NMR spectroscopic data of **1** closely resembled that of 2-C-methyl-D-threono-1,4-lactone (**5**) [16,17], except for a large difference in the chemical shift values at C-4. The deshielded proton at δ<sub>H</sub> 4.43 and the carbon at δ<sub>C</sub> 83.4 of **1** suggested that the glycosyl group was attached to C-4. This was confirmed by an HMBC experiment from the correlation between H-4 (δ<sub>H</sub> 4.43) and the carbon signal at δ<sub>C</sub> 104.0 (Figure 2a). While five signals corresponding to C2'-C6' and an anomeric

carbon signal resonating at  $\delta_C$  104.0 were indicative of glucopyranoside. The relative configuration of the aglycone moiety was established using NOESY analysis. The correlations between H-5 $\alpha$ /Me-6 and H-4/H-5 $\beta$  suggested  $\alpha$ -orientation for H-5 $\alpha$  and Me-6, and  $\beta$ -orientation for H-4 and H-5 $\beta$  (Figure 2b). Acid hydrolysis of **1** with 1N HCl liberated glucose and aglycone (**1a**). The glucose was determined to be D-series from the result of HPLC analysis with an optical rotation detector [25]. The coupling constant ( $J = 7.7$  Hz) of the anomeric proton signal ( $\delta_H$  4.37) suggested a  $\beta$ -glycosidic linkage. The aglycone (**1a**) was identified to be 2-C-methyl-D-threono-1,4-lactone (**5**) [16] by spectroscopic (IR, HR-ESI-MS, 1D NMR, and  $[\alpha]_D$ ) analyses. The 4R configuration was also supported by the application of the  $\beta$ -D-glucosylation-induced shift-trend rule, i.e.,  $\Delta\delta_{\text{glucoside-aglycone}}$  values of C-3 ( $\pm 0$ ), C-4 (+7.4), and C5 ( $-3.4$ ) suggested C-5 is Pro-S [26]. Based on these results, the structure of **1** was determined to be 2-C-methyl-D-threono-1,4-lactone-3-O- $\beta$ -D-glucopyranoside.

**Table 2.**  $^{13}\text{C}$ -NMR spectroscopic data for compounds **1–4**.

Position	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1a</b>
2	179.4	179.3	181.2	181.3	180.2
3	75.7 ( $\pm 0$ ) *	75.9	30.4	30.6	75.7
4	83.4 (+7.4) *	75.6	26.0	26.3	76.0
5	69.6 ( $-3.4$ ) *	72.9	57.3	57.4	73.0
6	19.2	17.6	174.2	176.2	17.7
1'	104.0	60.6	64.0	60.5	
2'	74.9	109.2	38.8	42.6	
3'	78.2	82.6	65.5	66.3	
4'	72.2	79.0	23.9	23.9	
5'	78.1	84.7			
6'	63.2	62.9			

150 MHz (methanol- $d_4$ ). Chemical shifts ( $\delta$ ) in ppm. \*:  $\Delta\delta_{\text{glucoside-aglycone}}$ .



**Figure 2.** (a)  $^1\text{H}$ - $^1\text{H}$  COSY and  $\text{HMBC}$  correlations; (b) NOESY correlations.

### 2.1.2. Structure of 2-C-methyl-D-threono-1,4-lactone-3-O- $\alpha$ -D-fructofuranoside (**2**)

Compound **2** was obtained as a colorless amorphous powder whose molecular formula was determined to be  $\text{C}_{11}\text{H}_{18}\text{O}_9$  from positive-ion HR-ESI-MS at an  $m/z$  of 317.0844  $[\text{M} + \text{Na}]^+$  (calcd 317.0843). The  $^1\text{H}$  and  $^{13}\text{C}$ -NMR spectra (Tables 1 and 2) of **2** were similar to those of **1** and 2-C-methyl-D-threono-1,4-lactone (**5**). The  $^{13}\text{C}$ -NMR also showed two secondary carbons at  $\delta_C$  60.6 and 62.9; three tertiary carbons at  $\delta_C$  79.0, 82.6, and 84.7; and a quaternary carbon at  $\delta_C$  109.2, indicating a fructofuranose moiety. Zhang et al. (2009) described that  $\alpha$  and  $\beta$  orientations of D-fructofuranose were distinguishable by the  $J$  value of H-3 and the chemical shift of C-2. The characteristic values of  $\alpha$  orientation are  $^3J_{\text{H}_3,\text{H}_4} = 3\text{--}4$  Hz and C-2 ( $\delta_C$  107–109), while the  $\beta$  orientation is  $^3J_{\text{H}_3,\text{H}_4} = 7\text{--}9$  Hz and C-2 ( $\delta_C$  103–106) [27], which suggested the  $\alpha$ -fructofuranosylation to the aglycone. The 2D NMR analyses (COSY, HSQC, and HMBC) supported the planar structure of **2** (Figure 2a). The upfield-shift of C-4, compared to **1**, suggested the quaternary C-3/C-2' connectivity. Acid hydrolysis of **2** yielded aglycone (2-C-methyl-D-threono-1,4-lactone) (**2a**) and D-fructose. Thus, **2** was estimated to be 2-C-methyl-D-threono-1,4-lactone-3-O- $\alpha$ -D-fructofuranoside, although a chemical synthesis may support our conclusion.

### 2.1.3. Structure of 1,3-butanediol-1-pyroglytamate (**3**)

Compound **3** was obtained as a colorless amorphous powder and displayed an  $[M + Na]^+$  ion at an  $m/z$  of 224.0890 (calcd 224.0893) corresponding to a molecular formula of  $C_9H_{15}O_4N$ . The IR spectrum showed a strong absorption band for the hydroxy ( $3331\text{ cm}^{-1}$ ) and carbonyl ( $1735$  and  $1684\text{ cm}^{-1}$ ). The  $^1H$  and  $^{13}C$ -NMR spectra of **3** showed signals assignable to two methylenes ( $\delta_H$  2.31 (1H, ddd,  $J = 17.1, 9.9, 5.5\text{ Hz}$ ) and  $\delta_H$  2.37 (1H, ddd,  $J = 17.1, 9.4, 7.3\text{ Hz}$ ) /  $\delta_C$  30.4 (C-3), and  $\delta_H$  2.16 (1H, m) and 2.48 (1H, m) /  $\delta_C$  26.0 (C-4)), a methine ( $\delta_H$  4.29 (1H, dd,  $J = 9.1, 4.4\text{ Hz}$ ) /  $\delta_C$  57.3 (C-5)), and two carbonyls ( $\delta_C$  181.2 (C-2) and 174.2 (C-6)) (Tables 1 and 2). The chemical shift values and coupling patterns of these signals suggested a pyroglytamate moiety [18]. In addition, the  $^1H$  and  $^{13}C$ -NMR spectra also revealed a 1,3-butanediol framework, with a methyl ( $\delta_H$  1.20 (3H, d,  $J = 6.3\text{ Hz}$ ) /  $\delta_C$  23.9 (Me-10)), a methylene ( $\delta_H$  1.75 (1H, m) and 1.79 (1H, m) /  $\delta_C$  38.8 (C-2')), an oxygenated methine [ $\delta_H$  3.86 (1H, dqd,  $J = 8.2, 6.3, 4.4\text{ Hz}$ ) /  $\delta_C$  65.5 (C-3')), and an oxygenated methylene ( $\delta_H$  4.27 (2H, m) /  $\delta_C$  64.0 (C-1')). The relatively lower chemical shift value of H-1' ( $\delta_H$  4.27) indicated the ester linkage with pyroglytamate at C-1'. The  $^1H$ - $^1H$  COSY spectrum displayed correlations through H-3, H-4, and H-5, and through H-1', H-2', H-3', and H-4'. The HMBC spectrum demonstrated correlations of C-2 with H-3, and H-4, and correlations of C-6 with H-4 and H-5. Furthermore, the strong correlation of H-1' with C-6 established that the 1,3-butanediol moiety was located at the C-6 (Figure 3) to form an ester linkage with primary alcohol. Therefore, the structure of **3** was elucidated to be 1,3-butanediol-1-pyroglytamate.

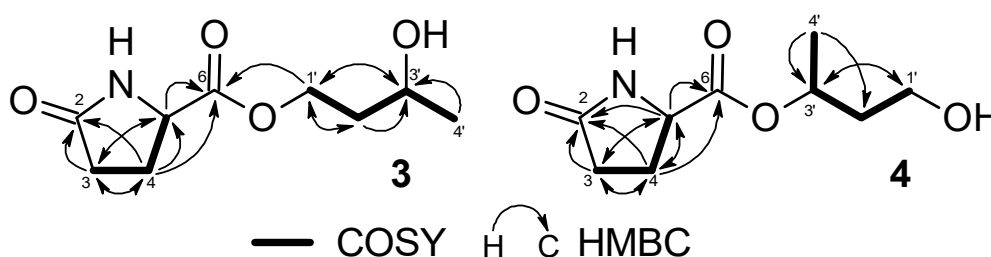


Figure 3. HMBC and COSY correlations of **3** and **4**.

### 2.1.4. Structure of 1,3-butanediol 3-pyroglytamate (**4**)

Compound **4** was isolated as a colorless amorphous powder. The NMR spectra together with the molecular ion at an  $m/z$  224.0893  $[M + Na]^+$  (calcd for  $C_9H_{15}O_4NNa$ : 224.0893) in HR-ESI-MS indicated that **4** was an isomer of **3**. The shielding of H-1' ( $\delta_H$  3.65 (1H, dt-like,  $J = 10.6, 6.3\text{ Hz}$ ) and  $\delta_H$  3.68 (1H, dt-like,  $J = 10.6, 6.7\text{ Hz}$ ) / C-1' ( $\delta_C$  60.5)) and deshielding of H-3' ( $\delta_H$  3.89 (1H, dqd,  $J = 7.7, 6.3, 4.8\text{ Hz}$ ) / C-3' ( $\delta_C$  65.5)) suggested that the ester linkage of 1,3-butanediol must be changed from primary alcohol (C-1') to the secondary alcohol (C-3') of 1,3-butanediol in **4** (Tables 1 and 2). The planar structure was supported by COSY and HMBC correlations (Figure 3). The difficulty of observing the correlation between C-3' and C-6 coincided with the abundant multiplicity of H-3'. As a result, the structure of **4** was estimated to be 1,3-butanediol 3-pyroglytamate.

The absolute stereochemistry of compounds **3** and **4** remains to be elucidated because of the insufficient amount for further analysis.

## 2.2. Osteoblast Activity

Osteoblasts are the most important cells in bone tissue and are critical for bone formation through proliferation and differentiation. During osteoblast differentiation, BMPs induce the expression of osteoblastic markers, such as ALP. Proliferating osteoblasts show ALP activity, which is greatly enhanced during in vitro bone formation. ALP is a membrane-bound enzyme that is often used as a marker for osteogenic differentiation.  $17\beta$ -estradiol has a significant impact on bone mineral metabolisms. It affects osteoblast proliferation through modulating the release of several local regulators

of bone turnover from monocytes and enhanced BMP-4 induced osteoblastic marker expression and mineralization [28].

To evaluate the effects of 1–14 on osteoblast function, ALP activity, which is related to the osteoid formation and initiation of the deposition of minerals, was evaluated. In this study, it was found that 4, 6, 7, 10, 11, and 12 stimulated ALP activity, which markedly increased osteoblast growth and differentiation of osteoblastic MC3T3-E1 cells. Compounds 7 and 11 did not show concentration dependency, probably due to the toxicity at higher concentrations. At concentrations of 25  $\mu\text{M}$ , 6, 10, and 12 stimulated ALP activity up to 112% comparable to the positive control, 17 $\beta$ -estradiol at 0.02 and 0.01  $\mu\text{M}$  (Figure 4).

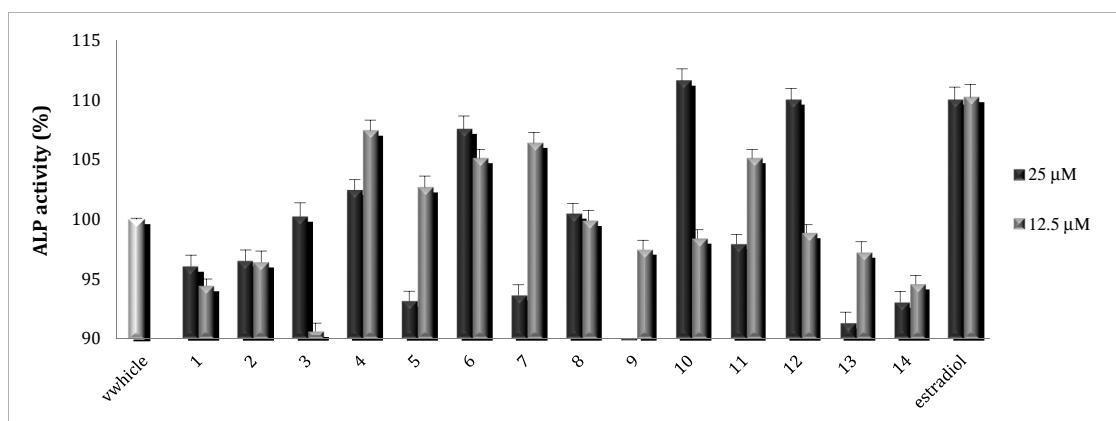


Figure 4. ALP activity of 1–14 toward MC3T3-E1 cell lines.

Osteoblasts can be induced to produce vast extracellular calcium deposition *in vitro*. This process is called mineralization. Calcium deposition is an indication of successful *in vitro* bone formation and can specifically be stained bright orange-red using Alizarin Red S. The effects of 1–14 were then examined by measuring the calcium deposition by Alizarin Red staining. As was found for the ALP activity study above, 4, 6, 7, 10, 11, and 12 showed stimulatory effects on mineralization. Compounds 6, 10, and 12 stimulated the mineralization up to 112% at 25  $\mu\text{M}$ , comparable to that of the positive control, 17 $\beta$ -estradiol, at 0.02 and 0.01  $\mu\text{M}$  (Figure 5).

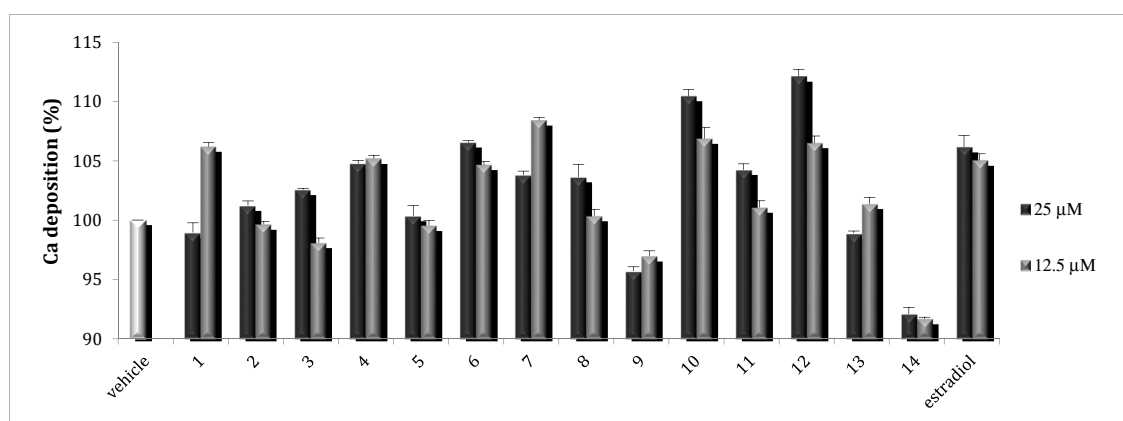


Figure 5. Calcium deposition of 1–14 toward MC3T3-E1 cell lines.

In bone formation, osteoblasts are key cells in bone matrix formation and calcification. Osteogenesis starts with osteoblast production and secretion of type I collagen, which makes up about 90% of the organic bone matrix or the osteoid. Osteoblast also becomes high in alkaline phosphatase. Alkaline phosphatase is released into the osteoid to initiate the deposition of minerals. After mineralization, the bone becomes hard and rigid with necessary mechanical properties to withstand the external forces

to support the body and protect the internal organs. Our study demonstrated that **4**, **6**, **7**, **10**, **11**, and **12** stimulated both ALP activity and calcium deposition in osteoblastic MC3T3-E1 cell in vitro, which suggests that the extract of *S. acmella* and these compounds have potential to be a remedy for osteoporosis as osteoblastic bone formation stimulant.

### 3. Materials and Methods

#### 3.1. General Experimental Procedures

$^1\text{H}$  and  $^{13}\text{C}$ -NMR spectra were taken on a Bruker Ultrashield Avance 600 spectrometer at 600 MHz and 150 MHz, respectively, with TMS as an internal standard. IR and UV spectra were measured on a HORIBA FT-720 FT-IR spectrophotometer and JASCO V-520 UV-vis spectrophotometer, respectively. Optical rotation was measured on a JASCO P-1030 digital polarimeter. Positive ion HR-ESI-MS was recorded using an LTQ Orbitrap XL mass spectrometer (Thermo Fisher Scientific, Waltham, MA, USA). Silica gel open column chromatography (CC) and reversed-phase (ODS) CC were performed on silica gel 60 (E. Merck, Darmstadt, Germany), and Cosmosil 75C18-OPN (Nacalai Tesque, Kyoto, Japan;  $\Phi = 35$  mm,  $L = 350$  mm), respectively. HPLC was performed on an ODS column (Inertsil ODS-3, GL Science, Tokyo, Japan;  $\Phi = 6$  mm,  $L = 250$  mm, 1.5 mL/min), and the eluate was monitored with a JASCO RI-930 intelligent detector and a JASCO PU-1580 intelligent pump unless otherwise specified.

#### 3.2. Plant Material

Whole plants of *Spilanthes acmella* (L.) L. were collected in late June 2007 in Kebun Raya Purwodadi, Malang, Indonesia ( $07^{\circ}46'09''$ – $07^{\circ}47'23''$  South latitude and  $112^{\circ}16'23''$ – $112^{\circ}17'17''$  East Longitude), and voucher specimens were deposited at the Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, Airlangga University as SA30062007 [29,30].

#### 3.3. Extraction and Isolation

The air-dried plants (2.0 kg) were extracted with methanol (MeOH, 10.0 l  $\times$  3). The methanol solution was concentrated and adjusted to 95% aq. methanol by the addition of water and then partitioned with *n*-hexane (1.0 l  $\times$  3, 23.5 g). The remaining aqueous methanol layer was evaporated and resuspended in 0.5 l of water and then partitioned with ethyl acetate (1.0 l  $\times$  3, 40.4 g) and 1-butanol (1.0 l  $\times$  3, 47.5 g), successively.

The 1-butanol layer (40.0 g) was subjected on silica gel (300 g) CC with increasing amounts of MeOH in  $\text{CHCl}_3$  [Hexane- $\text{CHCl}_3$  (1:1), 4 l,  $\text{CHCl}_3$ -MeOH (50:1, 40:1, 30:1, 20:1, 15:1, 10:1, 7:1, 5:1, 3:1, 2:1, 2 l), 500 mL fractions being collected], yielding 12 fractions (Fr. Sab1–Sab12). The fraction Sab11 (2.75 g) was subjected to ODS CC in 10% aq. MeOH (400 mL)–100% MeOH (400 mL), linear-gradient, led 10 fractions (Fr. Sab11-1–Sab11-10). The fraction Sab11-3 (442 mg) and Sab11-4 (123 mg) were purified by HPLC with 35% aq. MeOH to give **1** (10.1 mg) and **8** (dendranthemoside A, 3.71 mg), respectively. The fraction Sab10 (1.81 g) was subjected to ODS CC in 10% aq. MeOH (400 mL)–100% MeOH (400 mL) and led seven fractions (Fr. Sab10-1–Sab10-7). The fraction Sab10-1 (770 mg) was purified by HPLC with 100%  $\text{H}_2\text{O}$ , YMC Triart C18 column. Three peaks appeared at 5, 18, and 35 minutes and were collected to give **2** (7.62 mg), **5** (2-C-methyl-D-threono-1,4-lactone, 9.31 mg), and **14** (uridine, 27.5 mg). The fraction Sab10-2 (193 mg) was purified by HPLC (20% aq. MeOH) to give **11** (icariside B<sub>1</sub>, 6.12 mg) and **13** (chicoriin, 2.99 mg). The fraction Sab10-3 (142 mg) was purified by HPLC (35% aq. MeOH) to give **9** (dendranthemoside B, 4.31 mg). The fraction Sab5 (710 mg) was subjected to ODS CC in 10% aq. MeOH (400 mL)–100% MeOH (400 mL) and led 10 fractions (Fr. Sab5-1–Sab5-10). The fraction Sab5-1 (483 mg) and Sab5-2 (68.3 mg) were purified by HPLC (100%  $\text{H}_2\text{O}$ , YMC Triart C18 column) to give **3** (7.80 mg), **4** (4.21 mg), and **7** (methyl pyroglutamate, 6.63 mg), respectively. The mixture of fraction Sab6, Sab7, Sab8, and Sab9 (2.06 g) was subjected to ODS CC in 10% aq. MeOH (400 mL)–100% MeOH (400 mL) and led 10 fractions (Fr. Sab6-9-1–Sab6-9-10). The fraction Sab6-9-1 (340 mg) was purified by HPLC (100%  $\text{H}_2\text{O}$ , YMC Triart C18 column) to give **6** (2-deoxy-D-ribo-1,4-lactone, 6.01 mg). The fraction,

Sab6-9-4 (114 mg), was purified by HPLC (40% aq. MeOH) to give **10** (ampelopsiosin, 5.43 mg). The fraction Sab12 (5.36 g) was subjected to ODS CC in 10% aq. MeOH (400 mL)–100% MeOH (400 mL) and led 10 fractions (Fr. Sab12-1–Sab12-10). The fraction Sab12-3 (129 mg) was purified by HPLC (35% aq. MeOH) to give **12** (benzyl  $\alpha$ -L-arabinopyranosyl (1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside, 4.51 mg).

### 3.3.1. 2-C-methyl-D-threono-1,4-lactone-4-O- $\beta$ -D-glucopyranoside (**1**)

Colorless amorphous powder;  $[\alpha]_D^{26.7}$   $-28.6$  ( $c$  0.78, MeOH); IR (film)  $\nu_{\max}$   $\text{cm}^{-1}$ : 3392, 2924, 1777, 1713, 1650, 1557, 1456, 1391, 1210, 1078, 899, 647;  $^1\text{H-NMR}$  and  $^{13}\text{C-NMR}$ , see Tables 1 and 2; positive HR-ESI-MS ( $m/z$ ): 317.0845  $[\text{M} + \text{Na}]^+$  (calcd for  $\text{C}_{11}\text{H}_{18}\text{O}_9\text{Na}$ : 317.0843).

### 3.3.2. 2-C-methyl-D-threono-1,4-lactone-3-O- $\alpha$ -D-fructofuranoside (**2**)

Colorless amorphous powder;  $[\alpha]_D^{26.9}$   $-10.4$  ( $c$  0.74, MeOH); IR (film)  $\nu_{\max}$   $\text{cm}^{-1}$ : 3386, 2938, 1774, 1732, 1651, 1540, 1456, 1339, 1206, 1073, 870, 669;  $^1\text{H-NMR}$  and  $^{13}\text{C-NMR}$ , see Tables 1 and 2; positive HR-ESI-MS ( $m/z$ ): 317.0844  $[\text{M} + \text{Na}]^+$  (calcd for  $\text{C}_{11}\text{H}_{18}\text{O}_9\text{Na}$ : 317.0843).

### 3.3.3. 1,3-butanediol-1-pyroglytamate (**3**)

Colorless amorphous powder;  $[\alpha]_D^{27.7}$   $-0.86$  ( $c$  0.42, MeOH); IR (film)  $\nu_{\max}$   $\text{cm}^{-1}$ : 3331, 2966, 2926, 1735, 1684, 1557, 1457, 1338, 1207, 1052, 670;  $^1\text{H-NMR}$  and  $^{13}\text{C-NMR}$ , see Tables 1 and 2; positive HR-ESI-MS ( $m/z$ ): 224.0890  $[\text{M} + \text{Na}]^+$  (calcd for  $\text{C}_9\text{H}_{15}\text{O}_4\text{NNa}$ : 224.0893).

### 3.3.4. 1,3-butanediol-3-pyroglytamate (**4**)

Colorless amorphous powder;  $[\alpha]_D^{27.1}$   $+1.40$  ( $c$  0.41, MeOH); IR (film)  $\nu_{\max}$   $\text{cm}^{-1}$ : 3314, 2969, 2931, 1735, 1683, 1557, 1457, 1338, 1229, 1054, 669;  $^1\text{H-NMR}$  and  $^{13}\text{C-NMR}$ , see Tables 1 and 2; positive HR-ESI-MS ( $m/z$ ): 224.0893  $[\text{M} + \text{Na}]^+$  (calcd for  $\text{C}_9\text{H}_{15}\text{O}_4\text{NNa}$ : 224.0893).

### 3.3.5. Acid Hydrolysis for Identification of Sugar Moiety of **1** and **2**

A solution of **1** or **2** (1 mg) in 1 N aq. HCl (0.1 mL) was heated at 80 °C for 2 h. The mixture was neutralized by the addition of amberlite IRA400 ( $\text{OH}^-$  form), and the resin was removed by filtration. Then, the filtrates were extracted with EtOAc. The aqueous layers were subjected to HPLC analysis (column: Shodex Asahipak NH 2P-50 4E, 250  $\times$  4.6 mm i.d.; mobile phase: 75%  $\text{CH}_3\text{CN}$  in water; detection: optical rotation (JASCO OR-2090Plus); flow rate: 1.0 mL/min) to identify D-glucose and D-fructose, which were identified by the comparison of their retention times with those of authentic samples;  $t_R$ : 5.11 (D-fructose, negative optical rotation) and  $t_R$ : 6.10 (D-glucose, positive optical rotation). They also yielded the aglycon of 2-C-methyl-D-threono-1,4-lactone (**1a** and **2a**) [26]. (**1a**): Colorless amorphous powder;  $[\alpha]_D^{27.5}$   $-15.0$  ( $c$  0.06, MeOH); IR  $\nu_{\max}$  (film)  $\text{cm}^{-1}$ : 3286, 2923, 1729, 1649, 1558, 1456, 1339, 1205, 1092, 667;  $^1\text{H-NMR}$  (methanol- $d_4$ ,  $\delta_{\text{H}}$ ): 1.35 (3H, s, H-6), 3.96 (1H, dd,  $J = 9.0, 4.0$  Hz, H-5a), 4.17 (1H, dd,  $J = 5.0, 4.0$  Hz, H-4), 4.49 (1H, dd,  $J = 9.0, 5.0$  Hz, H-5b); positive HR-ESI-MS  $m/z$  155.0312  $[\text{M} + \text{Na}]^+$  (calcd. for  $\text{C}_5\text{H}_8\text{O}_4\text{Na}$ : 155.0315) and  $t_R = 10.20$  (HPLC, 100%  $\text{H}_2\text{O}$ , YMC Triart C18 column). (**2a**): Colorless amorphous powder;  $[\alpha]_D^{27.9}$   $-15.7$  ( $c$  0.08, MeOH); IR  $\nu_{\max}$  (film)  $\text{cm}^{-1}$ : 3373, 2927, 1717, 1649, 1558, 1455, 1338, 1207, 1098, 668;  $^1\text{H-NMR}$  (methanol- $d_4$ ,  $\delta_{\text{H}}$ ): 1.35 (3H, s, H-6), 3.96 (1H, dd,  $J = 9.0, 4.0$  Hz, H-5a), 4.17 (1H, dd,  $J = 5.0, 4.0$  Hz, H-4), 4.49 (1H, dd,  $J = 9.0, 5.0$  Hz, H-5b); positive HR-ESI-MS  $m/z$  155.0319  $[\text{M} + \text{Na}]^+$  (calcd. for  $\text{C}_5\text{H}_8\text{O}_4\text{Na}$ : 155.0315) and  $t_R = 10.20$  (HPLC, 100%  $\text{H}_2\text{O}$ , YMC Triart C18 column) together with authentic sample 5.

## 3.4. Osteoblast Activities

### 3.4.1. Cell Culture

An osteoblast-like cell of MC3T3-E1 was purchased from Riken Cell Bank, Tsukuba, Japan. The cells were cultured in  $\alpha$ -MEM medium containing 10% FBS in a  $\text{CO}_2$  incubator at 37 °C and

sub-cultured every 3 days by trypsin (0.25%) treatment. The  $5 \times 10^4$  cells were seeded in 24-well plates and incubated for the following ALP and mineralization assays.

#### 3.4.2. Alkaline Phosphatase (ALP) Activity

The cells were treated at 90% confluence with the culture medium containing 10 mM  $\beta$ -glycerophosphate and 50  $\mu\text{g}/\text{mL}$  ascorbic acid to initiate in vitro proliferation. The medium was changed every 2–3 d. After 6 days, the cells were cultured individually for 3 days with medium containing 0.3% bovine serum and isolated compounds (1–14). On harvesting, the medium was removed, and the cell monolayer was gently washed twice with phosphate-buffered saline. The cells were lysed with 0.2% Triton X-100, and centrifuged at  $14,000 \times g$  for 5 min. The clear supernatant was used to measure ALP activity using p-nitrophenylphosphate [31,32].

#### 3.4.3. Mineralization of MC3T3-E1

The cells were treated, at 90% confluence, with culture medium containing 10 mM  $\beta$ -glycerophosphate and 50  $\mu\text{g}/\text{mL}$  ascorbic acid, to initiate in vitro mineralization. After 12 days, the cells were cultured individually for 2 days with medium containing 0.3% bovine serum and isolated compounds (1–14). On harvesting, the cells were fixed with 70% ethanol for 1 hour and then stained with 40 mM Alizarin Red S for 10 min with gentle shaking. To quantify the bound dye, the stain was solubilized with 10% cetylpyridinium chloride by shaking for 15 min. The absorbance of the solubilized stain was measured at 561 nm [33].

## 4. Conclusions

The chemical investigation of the 1-butanol layer of the methanol extract of *Spilanthes acmella* (L.) L. gave 14 compounds (1–14), including 2 new methyl threonolactone glycosides, 2-C-methyl-D-threono-1,4-lactone-3-O- $\beta$ -D-glucopyranoside (1) and 2-C-methyl-D-threono-1,4-lactone-2-O- $\alpha$ -D-fructofuranoside (2); 2 new pyroglutamates, 1,3-butanediol 1-pyroglutamate (3) and 1,3-butanediol 3-pyroglutamate (4); and 10 known compounds, 2-C-methyl-D-threono-1,4-lactone (5), 2-deoxy-D-ribo-1,4-lactone (6), methyl pyroglutamate (7), dendranthemoside A (8), dendranthemoside B (9), ampelopsionoside (10), icariside B<sub>1</sub> (11), benzyl  $\alpha$ -L-arabinopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside (12), chicoriin (13), and uridine (14). All the isolated compounds were evaluated for ALP and calcium deposition as markers for osteogenic differentiation and mineralization stimulatory activities. Our study demonstrated that compounds 4, 6, 7, 10, 11, and 12 stimulated ALP activity and calcium deposition in osteoblastic MC3T3-E1 cell in vitro. Compounds 6, 10, and 12 stimulated ALP and mineralization up to 112% at 25  $\mu\text{M}$ , comparable to that of the positive control, 17 $\beta$ -estradiol, at 0.02 and 0.01  $\mu\text{M}$ . Of these active compounds, compounds 4, 6, 7, 10, and 11 are the first time to be reported their osteoblastic activity. While compound 12 has already isolated as an osteoblastic active compound from the fruit of *Prunus mume* [34]. The isolation of the same active compound (12) from the different plants through independent study strengthened and supported the reliability of our results. Overall, the compounds 4, 6, 7, 10, 11, and 12 are the active principle of *S. acmella* on the stimulation of osteoblastic bone formation and may play an important role in bone remodeling as drug seeds in osteoporosis therapy.

**Supplementary Materials:** The following are available online: Figure S1–S32: 1D and 2D NMR data for 1–4.

**Author Contributions:** Conceptualization, K.M. and R.W.; Methodology, S.S.; Software, Y.Y.; Validation, H.O., K.M. and S.S.; Formal analysis, K.M.; Investigation, R.W., M.I.S., and N.H.U.; Resources, R.W.; Data curation, N.H.U.; Writing—original draft preparation, R.W.; Editing, K.M.; Visualization, R.W.; Supervision, H.O. and K.M.; Project administration, M.I.S.; Funding acquisition, R.W. and K.M. All authors have read and agreed to the published version of the manuscript.

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**Conflicts of Interest:** The authors declare no conflict of interest.

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**Sample Availability:** Samples of the compounds 1–14 are available from the authors.





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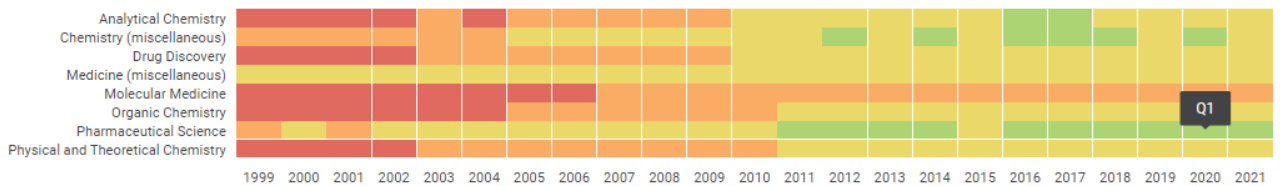
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