

DAFTAR PUSTAKA

- Abhyankar, S. S., & Shriram, R. (2013). Mandibular Cortical Width Measurement in an Orthopantogram for Osteoporosis Prediction. *International conference on Communication and Signal Processing*, 442–446. <https://doi.org/https://doi.org/10.1109/icccsp.2013.6577092>
- Aguilar, A., Zein, N., Harmouch, E., Hafdi, B., Bornert, F., Damien, O., ... Hua, G. (2019). Dental Engineering. *Molecules*, 24(3009), 1–17.
- Akindoyo, J. O., Beg, M. D. H., Ghazali, S., Alam, A. K. M. M., Heim, H. P., & Feldmann, M. (2019). Synergized poly(lactic acid)–hydroxyapatite composites: Biocompatibility study. *Journal of Applied Polymer Science*, 136(15), 1–10. <https://doi.org/10.1002/app.47400>
- Alksne, M., Kalvaityte, M., Simoliunas, E., Rinkunaite, I., & Gendviliene, I. (2020). In vitro comparison of 3D printed polylactic acid / hydroxyapatite and polylactic acid / bioglass composite scaffolds : Insights into materials for bone regeneration. *Journal of the Mechanical Behavior of Biomedical Materials*, 104(October 2019).
- Anderson, J. J. B., Garner, S. C., & Klemmer, P. J. (2016). *Diet, Nutrients, and Bone Health*. Boca Raton: CRC Press.
- Banjanin, B., Vladić, G., & Pál, M. (2018). Consistency Analysis of Mechanical Properties of Elements Produced by FDM Additive Manufacturing Technology. *Revista Matéria*, 23(4), 1–15.
- Bartmanski, M., Cieslik, B., Glodowska, J., & Kalka, P. (2017). Electrophoretic deposition (EPD) of nanohydroxyapatite - nanosilver coatings on Ti13Zr13Nb alloy. *Ceramics International*, 43(15), 11820–11829. <https://doi.org/10.1016/j.ceramint.2017.06.026>
- Bartmański, M., Pawłowski, Ł., Strugała, G., Mielewczyk-Gryń, A., & Zieliński, A. (2019). Properties of nanohydroxyapatite coatings doped with nanocopper, obtained by electrophoretic deposition on Ti13Zr13Nb alloy. *Materials*, 12(22). <https://doi.org/10.3390/ma12223741>
- Bonjour, J., Chevalley, T., Ferrari, S., & Rizzoli, R. (2012). Peak Bone Mass and Its Regulation. In *Pediatric Bone* (2 ed., hal. 189–221). <https://doi.org/10.1016/B978-0-12-382040-2.10009-7>
- Burdusel, A.-C., Gherasim, O., Grumezescu, A. M., Mogoanta, L., Ficai, A., & Andronescu, E. (2018). Biomedical Applications of Silver Nanoparticles : An Up-to-Date Overview. *Nanomaterials*, 8(681), 681–693. <https://doi.org/10.3390/nano8090681>
- Carmona, V. O., Mart, C., Lima, R. De, & Fraceto, L. F. (2014). Effect of Silver Nanoparticles in a Hydroxyapatite Coating applied by Atmospheric Plasma

- Spray. *International Journal of Electrochemical Science*, 9(12), 7471–7494.
- Ceriana, R., Djuwita, I., & Wresdiyati, T. (2014). Ekstrak Batang Sipatah-Patah Meningkatkan Proliferasi dan Diferensiasi Sel Punca Mesenkimal Sumsum Tulang. *Jurnal Veteriner*, 15(4), 436–445.
- Chen, X., Gao, C., Jiang, J., Wu, Y., Zhu, P., & Chen, G. (2019). 3D printed porous PLA/nHA composite scaffolds with enhanced osteogenesis and osteoconductivity in vivo for bone regeneration. *Biomedical Materials*, 0–14. <https://doi.org/10.1088/1748-605X/ab388d>
- De Mori, A., Fernández, M. P., Blunn, G., Tozzi, G., & Roldo, M. (2018). 3D printing and electrospinning of composite hydrogels for cartilage and bone tissue engineering. *Polymers*, 10(3), 1–26. <https://doi.org/10.3390/polym10030285>
- Dhandayuthapani, B., Yoshida, Y., Maekawa, T., & Kumar, D. S. (2011). Polymeric scaffolds in tissue engineering application: A review. *International Journal of Polymer Science*, 2011(ii). <https://doi.org/10.1155/2011/290602>
- Dhivya, S., Saravanan, S., Sastry, T. P., & Selvamurugan, N. (2015). Nanohydroxyapatite-reinforced chitosan composite hydrogel for bone tissue repair in vitro and in vivo. *Journal of Nanobiotechnology*, 13(1), 1–13. <https://doi.org/10.1186/s12951-015-0099-z>
- Djuwita, I., Pratiwi, I. A., Winarto, A., & Sabri, M. (2012). Proliferasi dan Diferensiasi Sel Tulang Tikus dalam Medium Kultur In Vitro yang Mengandung Ekstrak Batang Cissus quadrangula Salisb. (Sipatah-Patah). *Jurnal Kedokteran Hewan*, 6(2), 75–80.
- Dorati, R., DeTrizio, A., Modena, T., Conti, B., Benazzo, F., Gastaldi, G., & Genta, I. (2017). Biodegradable Scaffolds for Bone Regeneration Combined with Drug-Delivery Systems in Osteomyelitis Therapy. *Pharmaceuticals*, 10(96), 1–21. <https://doi.org/10.3390/ph10040096>
- Dziaduszewska, M., Wekwejt, M., Bartmański, M., Pałubicka, A., Gajowiec, G., Seramak, T., ... Zieliński, A. (2019). The effect of surface modification of Ti13Zr13Nb alloy on adhesion of antibiotic and nanosilver-loaded bone cement coatings dedicated for application as spacers. *Materials*, 12(18). <https://doi.org/10.3390/ma12182964>
- Farah, S., Anderson, D. G., & Langer, R. (2016). Physical and Mechanical Properties of PLA , and Their Functions in Widespread Applications — A Comprehensive Review. *Advanced Drug Delivery Reviews*, 107, 367–392. <https://doi.org/10.1016/j.addr.2016.06.012>
- Ganescu, O., Anderson, M., & Kankakee. (2019). *Rare Disease Database*. Diambil dari rarediseases.org/rare-diseases/osteomyelitis/

- Goy, R. C., De Britto, D., & Assis, O. B. G. (2009). A review of the antimicrobial activity of chitosan. *Polimeros*, 19(3), 241–247. <https://doi.org/10.1590/S0104-14282009000300013>
- Goy, R. C., Morais, S. T. B., & Assis, O. B. G. (2016). Evaluation of the antimicrobial activity of chitosan and its quaternized derivative on *E. Coli* and *S. aureus* growth. *Brazilian Journal of Pharmacognosy*, 26(1), 122–127. <https://doi.org/10.1016/j.bjp.2015.09.010>
- Gregor, A., Filová, E., Novák, M., Kronek, J., Chlup, H., Buzgo, M., ... Hošek, J. (2017). Designing of PLA Scaffolds for Bone Tissue Replacement Fabricated by Ordinary Commercial 3D Printer. *Journal of Biological Engineering*, 11(1), 1–21. <https://doi.org/10.1186/s13036-017-0074-3>
- Gubbi, P., & Wojtisek, T. (2018). The role of titanium in implant dentistry. In *Titanium in Medical and Dental Applications* (Vol. 1). <https://doi.org/10.1016/B978-0-12-812456-7.00023-8>
- Guo, C., Guo, X., Cai, N., & Dong, Y. (2012). Novel Fabrication Method of Porous Poly (Lactic Acid) Scaffold with Hydroxyapatite Coating. *Materials Letters*, 74, 197–199. <https://doi.org/10.1016/j.matlet.2012.01.085>
- Handoko, S. A. *A Complication Following Tooth Extraction: Chronic Suppurative Osteomyelitis.* , (2017).
- Hao, Y., Zhao, W., Wang, Y., Yu, J., & Zou, D. (2014). Assessments of Jaw Bone Density at Implant Sites Using 3D Cone-Beam Computed Tomography. *European Review for Medical and Pharmacological Sciences*, 18, 1398–1403.
- Heise, S., Höhlinger, M., Hernández, Y. T., Palacio, J. J. P., Rodriguez Ortiz, J. A., Wagener, V., ... Boccaccini, A. R. (2017). Electrophoretic deposition and characterization of chitosan/bioactive glass composite coatings on Mg alloy substrates. *Electrochimica Acta*, 232, 456–464. <https://doi.org/10.1016/j.electacta.2017.02.081>
- Hendrick, E., & Frey, M. (2014). Increasing Surface Hydrophilicity in Poly (Lactic Acid) Electrospun Fibers by Addition of Pla-b-Peg Co-Polymers. *Journal of Engineered Fibers and Fabrics*, 9(2), 153–164.
- Islam, M. (2011). Antibacterial Activity of Crab-Chitosan Against *Staphylococcus aureus* and *Escherichia coli*. *Journal of Advanced Scientific Research*, 2(4), 63–66.
- Jasveer, S., & Jianbin, X. (2018). Comparison of Different Types of 3D Printing Technologies. *International Journal of Scientific and Research Publications*, 8(4), 1–9. <https://doi.org/10.29322/IJSRP.8.4.2018.p7602>
- Konopnicki, S., & Troulis, M. J. (2015). Mandibular Tissue Engineering : Past ,

- Present , Future. *YJOMS*, 73(12), S136–S146.
<https://doi.org/10.1016/j.joms.2015.05.037>
- Lakatos, É., Magyar, L., & Bojtár, I. (2014). Material Properties of the Mandibular Trabecular Bone. *Journal of Medical Engineering*, 2014, 1–7.
- Lin, C., Fu, S., Lin, Y., Yang, I., & Gu, Y. (2014). Chitosan-coated electrospun PLA fibers for rapid mineralization of calcium phosphate. *International Journal of Biological Macromolecules*, 68, 39–47.
<https://doi.org/10.1016/j.ijbiomac.2014.04.039>
- Lin, K., & Chang, J. (2015). Structure and Properties of Hydroxyapatite for Biomedical Applications. In *Hydroxyapatite (HAP) for Biomedical Applications* (Vol. 4214). <https://doi.org/10.1016/B978-1-78242-033-0.00001-8>
- Liu, Y., Wang, S., & Zhang, R. (2017). Composite poly (lactic acid)/ chitosan nanofibrous scaffolds for cardiac tissue engineering. *International Journal of Biological Macromolecules*, 103, 1130–1137.
<https://doi.org/10.1016/j.ijbiomac.2017.05.101>
- Loh, Q. L., & Choong, C. (2013). Three-Dimensional Scaffolds for Tissue Engineering Applications: Role of Porosity and Pore Size. *Tissue Engineering: Part B*, 19(6), 485–502.
<https://doi.org/10.1089/ten.TEB.2012.0437>
- Mao, D., Li, Q., Bai, N., Dong, H., & Li, D. (2018). Porous stable poly (lactic acid)/ ethyl cellulose / hydroxyapatite composite sca ff olds prepared by a combined method for bone regeneration. *Carbohydrate Polymers*, 180(October 2017), 104–111. <https://doi.org/10.1016/j.carbpol.2017.10.031>
- Mazzanti, V., Malagutti, L., & Mollica, F. (2019). FDM 3D Printing of Polymers Containing Natural Fillers: A Review of their Mechanical Properties. *Polymers*, 11(1094), 1–22.
- Miranda, F., Caliori, F., Essiptchouk, A., & Pertraconi, G. (2018). Atmospheric Plasma Spray Processes: From Micro to Nanostructures. *Atmospheric Pressure Plasma - from Diagnostics to Applications*, 1–15.
<https://doi.org/10.5772/intechopen.80315>
- Mondal, S., Phuoc, T., Pham, V. H., & Hoang, G. (2020). Hydroxyapatite nano bioceramics optimized 3D printed poly lactic acid scaffold for bone tissue engineering application. *Ceramics International*, 46(3), 3443–3455.
<https://doi.org/10.1016/j.ceramint.2019.10.057>
- Mustafa, K., Wennerberg, A., Wroblewski, J., Hultenby, K., Lopez, B. S., & Arvidson, K. (2001). Determining optimal surface roughness of TiO₂ blasted titanium implant material for attachment, proliferation and differentiation of

- cells derived from human mandibular alveolar bone. *Clinical Oral Implants Research*, 12(5), 515–525. <https://doi.org/10.1034/j.1600-0501.2001.120513.x>
- Mutia, T., Eriningsih, R., & Safitri, R. (2011). Membran Alginat Sebagai Pembalut Luka Primer dan Media. *Jurnal Riset Industri*, V(2), 161–174.
- Neacșu, I. A., Nicoară, A. I., Vasile, O. R., & Vasile, B. Ș. (2016). Inorganic micro- and nanostructured implants for tissue engineering. *Nanobiomaterials in Hard Tissue Engineering: Applications of Nanobiomaterials*, 271–295. <https://doi.org/10.1016/B978-0-323-42862-0.00009-2>
- Özcan, M., & Hämmerle, C. (2012). Titanium as a reconstruction and implant material in dentistry: Advantages and pitfalls. *Materials*, 5(9), 1528–1545. <https://doi.org/10.3390/ma5091528>
- Pearce, E. C. (2016). *Anatomi dan Fisiologi untuk Paramedis*. Jakarta: Gramedia Pustaka Utama.
- Pokhrel, S. (2018). Hydroxyapatite : Preparation , Properties and Its Biomedical Applications. *Advances in Chemical Engineering and Science*, 8, 225–240. <https://doi.org/10.4236/aces.2018.84016>
- Präbst, K., Engelhardt, H., Ringgeler, S., & Hübner, H. (2017). Basic Colorimetric Proliferation Assays: MTT, WST, and Resazurin. *Cell Viability Assays: Methods and Protocols*, 1601, 1–17. <https://doi.org/10.1007/978-1-4939-6960-9>
- Pratiwi, A. E. (2015). *Isolasi, Seleksi, dan Uji Aktivitas Antibakteri Mikroba Endofit dari Daun Tanaman Garcinia benthami Pierre terhadap Staphylococcus aureus, Bacillus subtilis, Escherichia coli, Shigella dysenteriae, dan Salmonella typhimurium*. UIN Syarif Hidayatullah Jakarta.
- Prihatin, N. S. D. (2019). *Sintesis Scaffold Berbasis Komposit PCL-PLA/HA Melalui Metode 3D Printing*. Universitas Airlangga.
- Puppi, D., Mota, C., Gazzarri, M., Dinucci, D., Gloria, A., Myrzabekova, M., ... Chiellini, F. (2012). Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. *Biomedical Microdevices*, 14(6), 1115–1127. <https://doi.org/10.1007/s10544-012-9677-0>
- Ramaswamy, G., Bidez, M. W., & Misch, C. E. (2015). Bone Response to Mechanical Loads. In *Dental Implant Prosthetics* (hal. 107–125). <https://doi.org/10.1016/B978-0-323-07845-0.00006-3>
- Rochmah, Y. S. (2019). Osteomyelitis Kronis Mandibula Pasca Ekstraksi Gigi Disertai Bell ' S Palsy. *ODONTO Dental Journal*, 6(1), 52–55.
- Rodríguez-vázquez, M., Vega-ruiz, B., Ramos-zúñiga, R., Saldaña-koppel, D. A.,

- & Quiñones-olvera, L. F. (2015). Chitosan and Its Potential Use as a Scaffold for Tissue Engineering in Regenerative Medicine. 2 *BioMed Research International*, 2015, 1–15. <https://doi.org/10.1155/2015/821279>
- Rogina, A., Pribolšan, L., Hanžek, A., Gómez-Estrada, L., Gallego Ferrer, G., Marijanović, I., ... Ivanković, H. (2016). Macroporous poly(lactic acid) construct supporting the osteoinductive porous chitosan-based hydrogel for bone tissue engineering. *Polymer*, 98, 172–181. <https://doi.org/10.1016/j.polymer.2016.06.030>
- Sahni, A., Odrlić, T., & Francis, C. W. (1998). Binding of basic fibroblast growth factor to fibrinogen and fibrin*. *Journal of Biological Chemistry*, 273(13), 7554–7559. <https://doi.org/10.1074/jbc.273.13.7554>
- Sari, T. A., Hamdi, & Mufit, F. (2014). Identifikasi Mineral Magnetik pada Guano di Gua Bau-Bau Kalimantan Timur Menggunakan Scanning Electron Microscope (SEM). *Pillar of Physics*, 1(April), 97–104.
- Senatov, F. S., Niaza, K. V., Stepashkin, A. A., & Kaloshkin, S. D. (2016). Low-cycle fatigue behavior of 3d-printed PLA-based porous scaffolds. *Composites Part B*, 97, 193–200. <https://doi.org/10.1016/j.compositesb.2016.04.067>
- Serra, T., Planell, J. A., & Navarro, M. (2012). High-resolution PLA-based composite scaffolds via 3-D printing technology. *Acta Biomaterialia*, 9(3), 5521–5530. <https://doi.org/10.1016/j.actbio.2012.10.041>
- Serra, Tiziano, Ortiz-Hernandez, M., Engel, E., Planell, J. A., & Navarro, M. (2014). Relevance of PEG in PLA-based blends for tissue engineering 3D-printed scaffolds. *Materials Science and Engineering C*, 38(1), 55–62. <https://doi.org/10.1016/j.msec.2014.01.003>
- Shor, L., Güçeri, S., Wen, X., Gandhi, M., & Sun, W. (2007). Fabrication of three-dimensional polycaprolactone/hydroxyapatite tissue scaffolds and osteoblast-scaffold interactions in vitro. *Biomaterials*, 28(35), 5291–5297. <https://doi.org/10.1016/j.biomaterials.2007.08.018>
- Simanjuntak, H. F., Sylviana, M., & Fathurachman. *Osteomyelitis Kronis Supuratif Mandibula sebagai Komplikasi Sekunder Impaksi Gigi Molar Tiga.* , (2016).
- Spooner, E. (2007). A Guide to Surface Energy. Diambil dari The University of Sheffield with Ossila Ltd. website: <https://www.ossila.com/pages/a-guide-to-surface-energy#Van-oss-model>
- Sundari, T. D. (2018). *Desain Ukuran Pori Scaffolds PLA-PCL-HA dengan Metode 3D Printing*. Universitas Airlangga.
- Suryanegara, L. (2018). Efek Penambahan Asam Fenilfosponat-Seng, Talk dan Triasetin terhadap Laju Kristalisasi Poliasam Laktat. *Jurnal Sains Materi*

Indonesia, 19 No.3(3), 93–97.

- Swasty, D., Lee, J. S., Gansky, S. A., Hatcher, D., & Miller, A. J. (2009). Anthropometric Analysis of the Human Mandibular Cortical Bone as Assessed by Cone-Beam Computed Tomography. *J Oral Maxillofac Surg*, 67(3), 491–500. <https://doi.org/10.1016/j.joms.2008.06.089>
- Syamsoelily, L., Mappangara, S., Chandha, M. H., & Ruslin, M. (2013). Osteomielitis Supuratif Kronis pada Mandibula Edentulus Chronic Suppurative Osteomyelitis on Edentulous Mandible. *Journal of Dentomaxillofacial Science*, 12(1), 33–37. <https://doi.org/10.15562/jdmfs.v12i1.346>
- Tahmasbi Rad, A., Solati-Hashjin, M., Osman, N. A. A., & Faghihi, S. (2014). Improved bio-physical performance of hydroxyapatite coatings obtained by electrophoretic deposition at dynamic voltage. *Ceramics International*, 40(8 PART B), 12681–12691. <https://doi.org/10.1016/j.ceramint.2014.04.116>
- Teixeira, B. (2017). Structural Evaluation of PLA Scaffolds Obtained by 3D Printing via Fused Deposition Modeling (FDM) Technique for Applications Structural Evaluation of PLA Scaffolds Obtained By 3D Printing Via Fused Deposition Modeling (FDM). *14^o Congresso da Sociedade Latino Americana de Biomateriais, Orgãos Artificiais e Engenharia de Tecidos - SLABO 5^a Edição do Workshop de Biomateriais, Engenharia de Tecidos e Orgãos Artificiais - OBI 20*, 995–997. Sao Paulo.
- Tian, B., Chen, W., Yu, D., Lei, Y., Guo, Y., & Zhu, Z. (2016). Fabrication of silver nanoparticle-doped hydroxyapatite coatings with oriented block arrays for enhancing bactericidal effect and osteoinductivity. *Journal of the Mechanical Behavior of Biomedical Materials*. <https://doi.org/10.1016/j.jmbbm.2016.04.002>
- Torres-Hernández, Y. G., Ortega-Díaz, G. M., Téllez-Jurado, L., Castrejón-Jiménez, N. S., Altamirano-Torres, A., García-Pérez, B. E., & Balmori-Ramírez, H. (2018). Biological compatibility of a polylactic acid composite reinforced with natural chitosan obtained from shrimp waste. *Materials*, 11(8). <https://doi.org/10.3390/ma11081465>
- Tzounis, L., Bangeas, P. I., Exadaktylos, A., Petousis, M., & Vidakis, N. (2020). Three-dimensional printed polylactic acid (PLA) surgical retractors with sonochemically immobilized silver nanoparticles: The next generation of low-cost antimicrobial surgery equipment. *Nanomaterials*, 10(5). <https://doi.org/10.3390/nano10050985>
- Utami, D. P., Indrani, D. J., & Eriwati, Y. K. (2019). <p>Peran metode modifikasi permukaan implan terhadap keberhasilan osseointegrasi</p><p>The role of implant surface modification method on the success of osseointegration</p>.

- Jurnal Kedokteran Gigi Universitas Padjadjaran*, 31(2), 95–101.
<https://doi.org/10.24198/jkg.v31i2.17967>
- Venkatesan, J., Pallela, R., Bhatnagar, I., & Kim, S. (2012). Chitosan – amylopectin / hydroxyapatite and chitosan – chondroitin sulphate / hydroxyapatite composite scaffolds for bone tissue engineering. *International Journal of Biological Macromolecules*, 51(5), 1033–1042.
<https://doi.org/10.1016/j.ijbiomac.2012.08.020>
- Wang, J., Nor Hidayah, Z., Razak, S. I. A., Kadir, M. R. A., Nayan, N. H. M., Li, Y., & Amin, K. A. M. (2019). Surface entrapment of chitosan on 3D printed polylactic acid scaffold and its biomimetic growth of hydroxyapatite. *Composite Interfaces*, 26(5), 465–478.
<https://doi.org/10.1080/09276440.2018.1508266>
- Wang, X., Xing, H., Zhang, G., Wu, X., Zou, X., Feng, L., ... Liu, H. (2016). Restoration of a Critical Mandibular Bone Defect Using Human Alveolar Bone-Derived Stem Cells and Porous Nano-HA/Collagen/PLA Scaffold. *Stem Cells International*, 2016. <https://doi.org/10.1155/2016/8741641>
- Wati, E. M., Puspaningtyas, A. R., & Pangaribowo, D. A. (2016). Uji Sitotoksitas dan Proliferasi Senyawa 1-(4-nitrobenzoiloksi-metil)-5-fluorourasil terhadap Sel Kanker Payudara MCF-7 methyl) -5-fluorouracil) on Breast Cancer Cells MCF-7). *Pustaka Kesehatan*, 4(3), 484–488.
- Wibisono, Y. (2017). *Biomaterial dan Bioproduk*. Malang: Universitas Brawijaya Press.
- Wiguna, G. A., & Kelen, Y. R. L. (2018). Implementasi Visual Basic 6.0 untuk Pengukuran Sudut Kontak Menggunakan Pendekatan Geometri Dua Lingkaran. *JURNAL IPTEK TERAPAN Research of Applied Science and Education*, 12(2), 107–115. <https://doi.org/10.22216/jit.2018.v12i2.2067>
- Wulandari, A. F. (2019). *Karakterisasi In-Vitro Scaffold PLA 3D-Printing Menggunakan Metode FDM dengan Coating Hidroksiapatit-Kitosan Untuk Rekonstruksi Mandibula*. Universitas Airlangga.
- Xie, C., Lu, X., Wang, K., Meng, F., Jiang, O., Zhang, H., & Zhi, W. (2014). Silver Nanoparticles and Growth Factors Incorporated Hydroxyapatite Coatings on Metallic Implant Surfaces for Enhancement of Osteoinductivity and Antibacterial Properties. *ACS Applied Material & Interfaces*, 2. <https://doi.org/10.1021/am501428e>
- Yadav, K., Singhal, N., Rishi, V., & Yadav, H. (2014). Cell Proliferation Assays. *John Wiley & Sons, Ltd*. <https://doi.org/10.1002/9780470015902.a0002566>
- Yassin, M. A. A. Y. (2017). Surfactant Tuning of Hydrophilicity of Porous Degradable Copolymer Scaffolds Promotes Cellular Proliferation and

- Enhances Bone Formation. *Journal of Biomedical Materials Research A*, 104A(8), 2049–2059.
- Yin, H., Qian, J., Zhang, J., Lin, Z., Li, J., Xu, J., & Li, Z. (2016). Engineering Porous Poly (lactic acid) Scaffolds with High Mechanical Performance via a Solid State Extrusion/Porogen Leaching Approach. *Polymers*, 8(213), 1–13. <https://doi.org/10.3390/polym8060213>
- Yu, N., Wang, X., Qiu, L., Cai, T., Jiang, C., Sun, Y., ... Xiong, H. (2020). Bacteria-triggered hyaluronan/AgNPs/gentamicin nanocarrier for synergistic bacteria disinfection and wound healing application. *Chemical Engineering Journal*, 380(235), 122582. <https://doi.org/10.1016/j.cej.2019.122582>
- Yun'an Qing, L. C., Li, R., Liu, G., Zhang, Y., Tang, X., Wang, J., ... Qin, Y. (2018). Potential antibacterial mechanism of silver nanoparticles and the optimization of orthopedic implants by advanced modification technologies. *International journal of nanomedicine*, 13, 3311–3327.
- Zareidoost, A., Yousefpour, M., Ghaseme, B., & Amanzadeh, A. (2012). The relationship of surface roughness and cell response of chemical surface modification of titanium. *Journal of Materials Science: Materials in Medicine*, 23(6), 1479–1488. <https://doi.org/10.1007/s10856-012-4611-9>
- Zhang, P., Qin, J., Zhang, B., Zheng, Y., Yang, L., Shen, Y., ... Zhang, F. (2019). Gentamicin-loaded silk/ nanosilver composite scaffolds for MRSA-induced chronic osteomyelitis. *Royal Society Open Science*, 6(5). <https://doi.org/10.1098/rsos.182102>
- Zhang, R., Lee, P., Lui, V. C. H., Chen, Y., Liu, X., Lok, C. N., ... Wong, K. K. Y. (2015). Silver nanoparticles promote osteogenesis of mesenchymal stem cells and improve bone fracture healing in osteogenesis mechanism mouse model. *Nanomedicine: Nanotechnology, Biology, and Medicine*, 11(8), 1949–1959. <https://doi.org/10.1016/j.nano.2015.07.016>