

DAFTAR PUSTAKA

- Addala, S., Bouhdjara, L., Chalab, A., Bouhdjarb, A., Halimia, O., Boudinea, B. and Sebaisa, M. 2013. Structural and Optical Properties of a NaCl Single Crystal Doped with CuO Nanocrystals. *Chin. Phys. B* 22(9):1-5
- Amer, H. 2017. Development of NaCl Salt as a Reusable Gamma Radiation Dosimeter. *International Journal of Engineering Science Invention* 6(8):80-87
- Amuda, O.S., Adetoro, R.O., Azeez, L.A., Adebisi, S.A. and Adejumo, A.L., 2019. Temperature-dependent synthesis and characterization of Hydroxyapatite (HAP) Sorbent from Periwinkle Shell. *Journal of Chemical Society of Nigeria*, 44(7).
- Andika, R., Fadli, A. and Irdoni, H.S., 2015. *Pengaruh Waktu Ageing dan Kecepatan Pengadukan pada Sintesis Hidroksiapatit dari Cangkang Telur dengan Metode Presipitasi* (Doctoral dissertation, Riau University).
- Atak, B.H., Buyuk, B., Huysal, M., Isik, S., Senel, M., Metzger, W. and Cetin, G., 2017. Preparation and characterization of amine functional nano-hydroxyapatite/chitosan bionanocomposite for bone tissue engineering applications. *Carbohydrate polymers*, 164, pp.200-213.
- Bano, N., Salwah, S., Basri, H., Adzila, S. and Shuaib, N., 2019. Fabrication and Characterization of Nanocrystalline Hydroxyapatite Extracted from Bovine Bone at Different Calcination Temperatures. *International Journal of Integrated Engineering*, 11(6), pp.38-44.
- Bassir, S.H., Wisitrasameewong, W., Raanan, J., Ghaffarigarakani, S., Chung, J., Freire, M., Andrada, L.C. and Intini, G. 2016. Potential for Stem Cell-Based Periodontal Therapy. *J Cell Physiol* 231(1): 50–61
- Bayani, M., Torabi, S., Shahnaz, A. and Pourali, M., 2017. Main properties of nanocrystalline hydroxyapatite as a bone graft material in treatment of periodontal defects. A review of literature. *Biotechnology & Biotechnological Equipment*, 31(2), pp.215-220.
- Belouafa, S., Bennamara, A., Abourriche, A. 2017 Low-Cost Processing Technology for the Synthesis of a Biocomposite for Biomedical Applications: a Preliminary Study. *JMES* 8 (3):825-830
- Bose, S., Roy, M. and Bandyopadhyay, A. 2012. Recent Advances in Bone Tissue Engineering Scaffolds. *Trends Biotechnol* 30(10): 546–554
- Bruderer, M., Richards, R.G., Alini, M., and Stoddart, M.J.. 2014. Role and Regulation of Runx2 in Osteogenesis. *European Cells and Materials* 28 : (269-286)

- Chatzopoulos, G., 2017. Periodontal Tissue Regeneration: Management of Periodontal Defects. *Northwest Dentistry Journal*, 96(3), pp.31-36.
- Chen, F.M. and Jin, Y., 2010. Periodontal tissue engineering and regeneration: current approaches and expanding opportunities. *Tissue Engineering Part B: Reviews*, 16(2), pp.219-255.
- Choudary, O.P. and Priyanka. 2017. Scanning Electron Microscope : Advantages and Disadvantages in Imaging Components. *Int.J.Curr.Microbiol.App.Sci* 6(5):1877-1882
- Clarke, B. 2008. Normal Bone Anatomy and Physiology. *Clin J Am Soc Nephrol* 3: S131–S139
- Cruz, G.A., Toledo, S., Sallum, E.A., Lima, A.F.M. 2007. Morphological and Chemical Analysis of Bone Substitutes by Scanning Electron Microscopy and Microanalysis by Spectroscopy of Dispersion Energy. *Braz Dent J* 18(2):129-133
- Habibie, S., Wargadipura, A.H.S., Gustiono, D., Herdianto, N., Riswoko, A., Nikmatin, S. and Clarke, S., 2017. Production and characterization of hydroxyapatite bone substitute material performed from Indonesian limestone. *Int. J. Biomed. Eng. Sci*, 4, pp.11-23.
- Hariyanto, Y.A., Taufiq, A., Mufti, N., Soontaranon, S. and Kamonsutthipaijit, N., 2019, April. Study on Structural Characters of Nano-sized Hydroxyapatite Prepared from Limestone. In *IOP Conference Series: Materials Science and Engineering* (Vol. 515, No. 1, p. 012020). IOP Publishing.
- Hendriyanto, A., 2018. Pengaruh Temperatur Sinter Dan Waktu Pemanasan Bahan Batu Kapur Alam Provinsi Lampung Terhadap Sifat Fisik Dan Kekerasan Produk Hidroksiapatit (HA) (Doctoral dissertation, Tesis. Universitas Lampung: Lampung).
- Favi, P.M., Ospina, S.P., Kachole, M., Gao, M., Atehortua, L. and Webster, T.J., 2016. Preparation and characterization of biodegradable nano hydroxyapatite–bacterial cellulose composites with well-defined honeycomb pore arrays for bone tissue engineering applications. *Cellulose*, 23(2), pp.1263-1282.
- Ferreira, A.M., Gentile, P., Chiono, V. and Ciardelli, G., 2012. Collagen for bone tissue regeneration. *Acta biomaterialia*, 8(9), pp.3191-3200.
- Ivanovski, S., Vaquette, C., Gronthos, S., Hutmacher, D.W. and Bartold, P.M.. 2014. Multiphasic Scaffolds for Periodontal Tissue Engineering. *J Dent Res* 93(12):1212-1221.

- Jangid, M.R., Rakhewar, P.S., Nayyar, A.S., Cholepatil, A., Chhabra, M.P. 2016. Bone Grafts and Bone Graft Substitutes in Periodontal Regeneration: A Review. *Int. J. Curr. Res. Med. Sci.* 2(8):1-7
- Jamarun, N. Elfiana, S. Arief, S. Djaman, A. Mufitra. 2016. Hydroxiapatite Material : Synthesis By Using Precipitation Method From Limestone. *Der Pharma Chemica.* 8 (13). Pp 302-306.
- Kamalanathan, Ramesh, S. Bang, T.L. Niakan, A. Tan, Y.C. Purbolaksono, J. Chandran, H. Teng, D.W. 2014. Synthesis and sintering of hydroxyapatite derived from eggshells as a calcium precursor. Elsevier. S. Ramesh (ed). Jul 2014, <http://dx.doi.org/10.1016/j.ceramint.2014.07.074>. Diakses 23 Agustus 2018.
- Kao R.T., Takei H.H., Cochran D.L., Nevins M.L. 2012. Periodontal Regeneration and Reconstructive Surgery. in Carranza's clinical periodontology, 12th edition. Missouri. Elsevier Saunders. p: 610-20
- Kasagi, S. and Chen, W. 2013. TGF-beta1 on Osteoimmunology and the Bone Component Cells. *Cell & Bioscience* 3(4) : 1-7
- Kim, S.H., Seo, B.M., Choung, P.H., Lee, Y.M. 2010. Adult Stem Cell Therapy for Periodontal Disease *International Journal of Stem Cells* 3(1) : 16-21
- Kini, U. and Nandeesh, B.N. 2012. Physiology of Bone Formation, Remodeling, and Metabolism. *Radionuclide and Hybrid Bone Imaging.* DOI 10.1007/978-3-642-02400-9_2
- Kumar, J., Jain, V., Kishore, S., Pal, H. 2016. Journey of Bone Graft Materials in Periodontal Therapy: A Chronological Review. *J Dent Allied Sci* 2016;5:30-4
- Li, S. 2017. Periodontal Regeneration: Promising and Challenging for Periodontal Complex Regeneration. *J Bone Rep Recomm.* 3(1) : 4
- Maté Sánchez de Val, J.E., Calvo- Guirado, J.L., Gómez- Moreno, G., Pérez- Albacete Martínez, C., Mazón, P. and De Aza, P.N., 2016. Influence of hydroxyapatite granule size, porosity, and crystallinity on tissue reaction in vivo. Part A: synthesis, characterization of the materials, and SEM analysis. *Clinical oral implants research*, 27(11), pp.1331-1338.
- Medina, P.S., Sundaram, P.A. and Carlo, N.D. 2015. Titanium Oxide: A Bioactive Factor in Osteoblast Differentiation. Article ID 357653. <http://dx.doi.org/10.1155/2015/357653>
- Mekonnen, B.T., Ragothaman, M. and Palanisamy, T. 2017. Bifunctional Hybrid Composites from Collagen Biowastes for Heterogeneous Applications. *ACS Omega* 2:5260–5270

- Monmaturapoj, N., 2017. Nano-size hydroxyapatite powders preparation by wet-chemical precipitation route. *Journal of Metals, Materials and Minerals*, 18(1).
- Munawaroh, F., Muharrami, L.K., Triwikantoro, T. and Arifin, Z., 2018. Calcium Oxide Characteristics Prepared From Ambunten's Calcined Limestone. *Jurnal Pena Sains*, 5(1), pp.65-71.
- Newman, M.G., Takei, H.H., Klokkevold, P.R. 2015. *Clinical Periodontology*. 12th ed. Elsevier Saunders, Missiori : 611
- Pandit, N. and Pandit, I.K., 2016. Autogenous bone grafts in periodontal practice: A literature review. *Journal of the International Clinical Dental Research Organization*, 8(1), p.27.
- Pesic, Z. and Pejcic, A., 2018. Biomaterials in Dentistry—Implantology and Guided Bone Regeneration. In *Biomaterials in Clinical Practice* (pp. 697-739). Springer, Cham.
- Petrochenko, P. and Narayan, R.J. 2010. Novel Approaches to Bone Grafting: Porosity, Bone Morphogenetic Proteins, Stem Cells, and the Periosteum. *J Long Term Eff Med Implants*. 20(4): 303–315
- Prakoso, A.T., Syahrom, A., Sulong, M.A., Saad, A.P., Yani, I., Nasution, J.D., Basri, H. 2017. A Comparison of Degradation Rate Bone Scaffold Morphology Between Computer Simulation and Experimental Approach. *International Medical Device and Technology Conference*: 90-93
- Pramanik, S., Hanif, A.S.M., Murphy, B.P. and Osman, N.A.A. 2013. Morphological Change of Heat Treated Bovine Bone: A Comparative Study. *Materials* 6:65-75
- Preshaw, P.M., Henne, K., Taylor, J.J., Valentine, R.A. and Conrads, G., 2017. Age- related changes in immune function (immune senescence) in caries and periodontal diseases: a systematic review. *Journal of clinical periodontology*, 44, pp.S153-S177.
- Raisz, L.G. 1999. Physiology and Pathophysiology of Bone Remodeling. *Clinical Chemistry* 45 (8) : 1353-1358
- Remya, N.S., Syama, S., Sabareeswaran, A. and Mohanan, P.V., 2017. Investigation of chronic toxicity of hydroxyapatite nanoparticles administered orally for one year in wistar rats. *Materials Science and Engineering: C*, 76, pp.518-527.
- Victoria, E.C. and Robinson, C., 2019. Comparative studies on synthesis and sintering studies of biologically derived hydroxyapatite from *Capria hircus* (Goat) and *Bos primigenius* (Bovine). *Vacuum*, 160, pp.378-383.

- Salmasi, S., Nayyer, L., Seifalian, A.M. and Blunn, G.W., 2016. Suppl-3, M8: Nanohydroxyapatite Effect on the Degradation, Osteoconduction and Mechanical Properties of Polymeric Bone Tissue Engineered Scaffolds. *The open orthopaedics journal*, 10, p.900.
- Sarala, C., Chauhan, M., Sandhya, P.S., Dharmendra, C.H. and Mitra, N., 2018. Autogenous tooth bone graft: Ingenious bone regeneration material. *Indian Journal of Dental Sciences*, 10(1), p.56.
- Sharma, R., Bisen, D.P., Shukla, U. and Sharma, B.G. 2012. X-ray Diffraction: A Powerful Method of Characterizing Nanomaterials. *Recent Research in Science and Technology* 4(8): 77-79
- Shimauchi, H., Nemoto, E., Ishihata, H., Shimomura, M. 2013. Possible Functional Scaffolds for Periodontal Regeneration. *Japanese Dental Science Review* 49 : 118—130
- Sjahfirdi, L., Mayangsari, Nasikin, M. 2012. Protein Identification Using Fourier Transform Infrared (FTIR) *IJRRAS* 10 (3) : 418-421
- Stuart, B. 2004. *Infrared Spectroscopy : Fundamentals and Applications*. John Wiley & Sons, Ltd. Pp:1-203
- Tonetti, M.S., Jepsen, S., Jin, L., Corgel, J.O. 2017. Impact of The Global Burden of Periodontal Diseases on Health, Nutrition and Wellbeing of Mankind: A Call for Global Action. *J Clin Periodontol* : 1–7.
- Turnbull, G., Clarke, J., Picard, F., Riches, P., Jia, L., Han, F., Li, B. and Shu, W., 2018. 3D bioactive composite scaffolds for bone tissue engineering. *Bioactive materials*, 3(3), pp.278-314.
- Walsh, J.S. 2014. Normal Bone Physiology, Remodelling and its Hormonal Regulation. *Surgery* 33(1) : 1-5
- Wilcox, K.E. 2014. *Using Regression Analyses for the Determination of Protein Structure from FTIR Spectra*. Thesis. Faculty of Life Sciences. University of Manchester
- Zhou G., Zhang Li, 2007. Preparation and characterization of nano hydroxyapatite /chitosan /konjac glucomannan composite.. *Journal of Biomaterials and Research*. Volume83A, Issue 4.