

DAFTAR PUSTAKA

- Agrawal, K., Sigh, G., Puri, D., and Prakash, S., 2011, Synthesis and Characterization of Hydroxyapatite Powder by Sol-Gel Method for Biomedical Application, *JMMCE*, 10(8): 727-734.
- Amin dan Ulfah, 2017, Sintesis Dan Karakterisasi Komposit Hidroksiapatit Dari Tulang Ikan Lamuru (*Sardinella Longiceps*)-Kitosan Sebagai Bone Filler, *JF FIK UINAM*, 5(1): 34-37.
- Aminatun et al., 2015, Synthesis and Characterization of Hydroxyapatite Layer on Cobalt Alloys through Dip Coating Method as A Prosthetic Bone Implant Candidate, *J. Optoelectron. Adv. Mater*, 7(1): 11-18.
- Azkiya, N.I., Praselia, F., Putri, E.D., Rosiana, A.R., dan Wardhani, S., 2016, Sintesis *Precipitated Calcium Carbonate* (PCC) dari Batuan Kapur Alam dengan Metode Kaustik Soda, *JID*, 17(1): 31-34.
- Anjarsari, Dahlan K, Suptijah P, Kemala T, 2016, Sintesis dan Karakterisasi Biokomposit BCP/Kolagen sebagai Material Perancah Tulang, *JPHPI*, 19(3): 356-361.
- Anwar A., Kiagus D., Pipih S., dan Tetty K., 2016, Sintesis dan Karakterisasi Biokomposit BCP/Kolagen sebagai Material Perancah Tulang, *JPHPI*, 19(3): 356-361.
- Balamurugan, A., Michel, J., Faure, J., Benhayoune, H., Wortham, L., Sockalingum, G., Banchet, Bouthors, S., Maquin, D.L., and Balossier, G., 2006, Synthesis and Structural Analysis of Sol Gel Derived Stoichiometric Monophasic Hydroxyapatite, *Ceram.Silik*, 50(1): 27-31.
- Bigi, A., Fini, M., Bracci, B., Boanini, E., Torricelli, P., Giavaresi, G., Aldini, N., Facchini, A., Sbaiz, F., and Giardin, R., 2008, The Response of Bone to Nanocrystalline Hydroxyapatite-coated $\text{Ti}^{13}\text{Nb}^{11}\text{Zr}$ Alloy in an Animal Model, *Biomaterials*, 29(11): 1730-1736.
- Bingol, O.R., and Durucan, C., 2012, Hydrothermal Synthesis of Hydroxyapatite from Calcium Sulfate Hemihydrate, *Am. J. Biomed. Sci.*, 4(1): 50-59.
- Barhroa, A.R., Rahbari, R.G., Masjuki, H.H., and Muhammad, M.R., 2014, Approximation of Crystallite Size and Microstrain via XRD Line Broadening Analysis in TiSiN Thin Films, *Vacuum*, 86, 1107-1112.
- Best S.M., Porter, A.S., Thian, E.S., and Huang, J., 2008, Bioceramics: Past, Present, and for the Future, *J. Eur. Ceram*, 28(13): 19-27.
- Cahkandi M. and Mirzaei, M., 2017, Structural and particle size evolution of sol gel-derived nanocrystalline hydroxyapatite, *J IRAN CHEM SOC*, 14(56).
- Firda Y. S., dan Yusril Y., 2018, Sintesis dan Karaterisasi Hidroksiapatit Berbahan Dasar Cangkang Kerang Simpson dan Cangkang Telur Burung Puyuh dengan Variasi Konsentrasi Ca:P dan Suhu Sintering, Tesis Universitas Gadjah Mada, Yogyakarta.
- Fava, L., and Saunders, W., 1999, Calcium Hydroxide Pastes: Classification and Clinical Indications, *Int. Endod. J.*, 32:257-82.
- Harahap, A.W., Helwani, Z., Zultiniar, dan Yelmida, 2015, Sintesis Hidroksiapatit melalui *Precipitated Calcium Carbonate* (PCC) Cangkang Kerang Darah

- dengan Metode Hidrotermal pada Variasi pH dan Waktu Reaksi, *JOM FTEKNIK*, 2(2): 1-8.
- Handayani, A., Giat, S. dan Deswita (2012) 'Preparasi dan Karakterisasi Hidroksiapatit Berpori Dari Tulang Ikan', *Journal of Materials Science*, 1(1): 1-4.
- Haris, A., Fadli, A. dan Yenti, S. R., 2016, Sintesis Hidroksiapatit dari Limbah Tulang Sapi menggunakan Metode Presipitasi dengan Variasi Rasio Ca/P dan Konsentrasi H_3PO_4 , *JOM FTEKNIK*, 3(2): 1-10.
- Hien, V.D., D.Q., Huong, and Bich, P.T.N., 2010, Study of the Formation of Porous Hydroxyapatite Ceramics from Corals via Hydrothermal Process, *J. Chem*, 48(5): 591-596.
- Huang, C.K., and Kerr, P.F., 1960, Infrared Study of Carbonate Materials, *Am. Mineral*, 45, 311-324.
- International Organization for Standardization Dentistry-Root Canal Sealing Materials, London, UK: British Standards Institutions ISO 6876:2012.
- International Organization for Standardization Dentistry-Water-based Cements Part 1: Powder/Liquid Acid/Base Cements, ISO 99-17, Geneva: International Standards Organization:2007.
- Ivanova, T. I., Frank-Kamenetskaya, O. V., Kol'tsov, A. B., and Ugolkov, V. L., 2001, Crystal Structure of Calcium-Deficient Carbonated Hydroxyapatite Thermal Decomposition, *J. Solid State Chem.*, 160(5): 340-349.
- Jayasree, R., Madhumathi, K., Rana, D., Ramalingam, M., Nankar, R.P., Doble, M., and Kumar, T. S., 2018, Development of Egg Shell Derived Carbonated Apatite Nanocarrier System for Drug Delivery, *J. Nanosci*, 23(18): 18-24.
- Jillavenkatesa A., dan Condrate, R. A., 1998, Sol-gel Processing of Hydroxyapatite, *J. Mater. Sci.*, 33: 4111-4119.
- Kovaleva, E.S., Shabanov, M.P., and Putlayev, V.I., 2018, Carbonated Hydroxyapatite Nanopowders for Preparation of Bioresorbable Materials, *Mat.-wiss. U. Werkstofftech*, 11.
- Kovaleva, E.S., Shabanov, M.P., Putlayev, V.I., Tretyakov, Y.D., Ivanov, V.K., and Silkin, N.I., 2009, Bioresorbable Carbonated Hydroxyapatite $Ca_{10-x}Na_x(PO_4)_{6-x}(CO_3)_x(OH)_2$ Powders for Bioactive Material Preparation, *Cen. Eur. J. Chem.*, 7(2):168-174.
- Krajewski, Adriano, Mazzocchi, M., Luigi, P., Ravaglioli, A., Tinti, A., Taddei, P., and Fagnano, C., 2005, Synthesis of Carbonated Hydroxyapatite: Efficiency of the Substitution and Critical Evaluation of Analytical Methods, *J. Mol. Struct.*, 747: 168-174.
- Landi, E., Tampieri, A., Celotti, G., Vichi L., and Sandri, M., 2003, Influence of Synthesis and Sintering Parameter on The Characteristics of Carbonate Apatite, *Biomaterials*, 25: 1763-1770.
- Luckita, G. K., Azis, Y. and Akbar, F., 2018, Sintesis Hidroksiapatit dari Precipitated Calcium Carbonat (PCC) cangkang telur itik melalui proses Sol-Gel dengan Variasi Rasio Reaktan Ca/P dan waktu Aging, *JOM FTEKNIK*, 5(2): 1-6.

- Manafi, A.M., and Joughehdoust, S., 2009, Synthesized of Hydroxyapatite Nanostructure by Hydrothermal Condition for Biomedical Application, *Iran. J. Pharm. Sci.*, 5(2): 89-94.
- Murugan, R., and Ramakrishna, S., 2006, Production of Ultra-Fine Bioresorbable Carbonated Hydroxyapatite, *Acta. Biomater.*, 2: 201-206.
- Nakamur, M., Hiratai, R., Hantunen, T., Salonen, J., and Yamashita, K., 2015, Hydroxyapatite with High Carbonated Substitutions Promotes Osteoclast Resorption through Osteocyte-Like Cells, *Biomater. Sci. Eng.*
- Pieters, I.Y., Vreken, N.M.F., Declercq, H.A., Cornelissen, M.J., and Verbeeck, R.M.H., 2010, Carbonated Apatites Obtained by the Hydrolysis of Monotite: Influence of Carbonate content on Adhesion and Proliferation of MC3T3-E1 Osteoblastic Cells, *Acta. Biomater.*, 6: 1561-1568.
- Purwasmita, B. S. dan Gultom, R. S., 2008, Sintesis dan Karakterisasi Serbuk Hidroksiapatit Skala Sub-Mikron Menggunakan Metode Presipitasi', *Jurnal Bionatura*, 10(2): 155-167.
- Rathner, B.D., Hoffman, A.S., Schoen, F.J., and Lemons, J.E., 2013, An Introduction Materials in Medicine, *Academic Press Elsevier*, United Kingdom.
- Ratnayake, J.T.B., Mucalo, M., and Dias, G.J., 2016, Substituted Hydroxyapatite for Bone Regeneration: A Review of Current Trends, *J. Biomed Mater Res.*, 2016:00B000-000.
- Riyanto, B. dan Maddu, A. (2014) 'Material of Hydroxyapatite-Based Bioceramics from Tuna Fishbone', *Jurnal Pengolahan Hasil Perikanan Indonesia*, 16(2), pp. 119–132. doi: 10.17844/jphpi.v16i2.8046.
- Saputra, F., Fadli, A. dan Amri, A., 2016, Kinetika Reaksi pada Sintesis Hidroksiapatit dengan Metode Presipitasi', *JOM FTEKNIK*, 3(1), pp. 1–6.
- Setiono dan Handayana P., 1985, Analisis Anorganik Kualitatif Makro dan Semimikro, Erlangga, Jakarta.
- Supangat, D., dan Cahyaningrum, S.E., 2017, Synthesis and Characterization of Hydroxyapatite of Crabs Shell (*Scylla serrata*) by Wet Application Method, *UNESA Journal of Chemistry.*, 6(3).
- Suparto, Herawati, I., dan Putri, D.K., 2015, Synthesis of Hydroxyapatite from Rice Fields Snail Shell (*Bellamya javanica*) through Wet Application Method and Pore Modification Using Chitosan, *Procedia Chemistry*, 17: 27-35.
- Suryadi, 2011, *Sintesis dan Karakterisasi Biomaterial Hidroksiapatit dengan Proses Pengendapan Kimia Basah*, Tesis Universitas Indonesia, Depok.
- Tariq, S.A., and Shakir, A.A., 2009, Effect of Limestone Dust and Metakaolin on Properties of Self-Compacting Concrete, *The 6th Engineering Conference*, 1.
- Tecklenburg and Mary, M.J., 2007, Carbonate Assignment and Calibration in the Raman Spectrum of Apatite, *Calcif.*, 46-52.
- Wardani, N. S., Fadli, A. dan Irdoni, 2015, Sintesis Hidroksiapatit dari Cangkang Telur dengan Metode Presipitasi, *JOM FTEKNIK*, 1-10.
- Wu, Y.S., Lee, Y.H., and Chang, H.C., 2012, Preparation and Characteristic of Nanosized Carbonated Apatite by Urea Addition with Coprecipitation Method, *Mater. Sci. Eng.*, C29, 237-241.



Yang, W.H., Xi, X.F., Li, J.F., and Ca, K.Y., 2013, Comparison of Crystal Structure Between Carbonated Hydroxyapatite and Natural Bone Apatite with Theoretical Calculation, *Asian J. Chem.*, 25(7): 3673-3678.