DAFTAR PUSTAKA

Abbasi, S., Bayati, M. R., Golestani-Fard, F., Rezaei, H. R., Zargar, H. R., Samanipour, F., & Shoaei-Rad, V. (2011). Micro arc oxidized HAp–TiO2 nanostructured hybrid layers-part I: Effect of voltage and growth time. *Applied Surface Science*, *257*(14), 5944–5949. https://doi.org/https://doi.org/10.1016/j.apsusc.2011.01.057

Adeleke, S. A., Ramesh, S., Bushroa, A. R., Ching, Y. C., Sopyan, I., Maleque, M. A., Krishnasamy, S., Chandran, H., Misran, H., & Sutharsini, U. (2018). The properties of hydroxyapatite ceramic coatings produced by plasma electrolytic oxidation. *Ceramics International*, *44*(2), 1802–1811. https://doi.org/10.1016/j.ceramint.2017.10.114

Ajiriyanto, M. K., & Anawati, A. (2022). Kajian Literatur Karakteristik Lapisan Keramik Oksida yang Ditumbuhkan Diatas Paduan Zirkonium dengan Metode Plasma Electrolytic Oxidation. *Indonesian Journal Of Applied Physics*, *12*(1), 19. https://doi.org/10.13057/ijap.v12i1.49853

Aliofkhazraei, M., Macdonald, D. D., Matykina, E., Parfenov, E. V., Egorkin, V. S., Curran, J. A., Troughton, S. C., Sinebryukhov, S. L., Gnedenkov, S. V., Lampke, T., Simchen, F., & Nabavi, H. F. (2021). Review of plasma electrolytic oxidation of titanium substrates: Mechanism, properties, applications and limitations. *Applied Surface Science Advances*, *5*. https://doi.org/10.1016/j.apsadv.2021.100121

Anawati, A., Asoh, H., & Ono, S. (2017). Effects of alloying element ca on the corrosion behavior and bioactivity of anodic films formed on AM60 mg alloys. *Materials*, *10*(1). https://doi.org/10.3390/ma10010011

Ardhiantika, P., Basuki, A., & Sunarmasto. (2021). Kajian Kuat Tekan, Kuat Tarik, Kuat Lentur Dan Redaman Bunyi Pada Panel Dinding Beton Ringan Dengan Agregat Limbah Plastik Pet. *Jurnal Matriks Teknik Sipil*.

Ariandari, F. A. (2021). *Pengaruh Ketebalan Lapisan Hidroksiapatit Terhadap Pengaruh Ketebalan Lapisan Hidroksiapatit Terhadap Karakteristik Permukaan Material Titanium Paduan Ti-29Nb-13Ta-4,6Zr (TNTZ) Pasca Implantasi*.

Aubakirova, V., Farrakhov, R., Sharipov, A., Polyakova, V., Parfenova, L., & Parfenov, E. (2022). Investigation of biocompatible peo coating growth on cp-ti with in situ spectroscopic methods. *Materials*, *15*(1). https://doi.org/10.3390/ma15010009

Aziz, I., Mahmudah, H., & Yusuf, Y. (2022). *Pembentukan Permukaan Porous Lapisan Tipis Ti-Cu-N Pada Permukaan Stainless Steel 316l Menggunakan Metode Anodisasi*. *12*(1), 202–208.

Bulan, J. C., Hendrawan, I. G., & Ria Puspitha, N. L. P. (2020). Analisis Kelimpahan dan Identifikasi Predator Abalon (Haliotis squamata) di Pantai Geger, Nusa Dua, Bali. *Journal of Marine Research and Technology*, *3*(1), 1. https://doi.org/10.24843/jmrt.2020.v03.i01.p01

Bumgardner, J. D., Vasquez-Lee, M., Fulzele, K. S., Smith, D. H., Branch, K. D., Christian, S. I., & Williams, D. L. (2008). *Biocompatibility Testing in Encyclopedia of Biomaterials and Biomedical Engineering*.

Bunaciu, A. A., Udriştioiu, E. gabriela, & Aboul-Enein, H. Y. (2015). X-Ray Diffraction: Instrumentation and Applications. *Critical Reviews in Analytical Chemistry*, *45*(4), 289–299. https://doi.org/10.1080/10408347.2014.949616

Calabria, U., Calabria, U., Mastropietro, F., Scarpelli, F., Godbert, N., & Godbert, N. (2018). *Mesoporous TiO Mesoporous TiO 2 Thin Thin Films : Films : State State of of the the Art*. *June 2018*. https://doi.org/10.5772/intechopen.74244

Dorozhkin, S. V. (2009). Calcium orthophosphates in nature, biology and medicine. In *Materials* (Vol. 2, Nomor 2, hal. 399–498). MDPI AG. https://doi.org/10.3390/ma2020399

Dorozhkin, S. V. (2010). Bioceramics of calcium orthophosphates. In *Biomaterials* (Vol. 31, Nomor 7, hal. 1465–1485). https://doi.org/10.1016/j.biomaterials.2009.11.050

Dorozhkin, S. V. (2011). Calcium orthophosphates: occurrence, properties, biomineralization, pathological calcification and biomimetic applications. In *Biomatter* (Vol. 1, Nomor 2, hal. 121–164). https://doi.org/10.4161/biom.18790

Durdu, S., Deniz, Ö. F., Kutbay, I., & Usta, M. (2013). Characterization and formation of hydroxyapatite on Ti6Al4V coated by plasma electrolytic oxidation. *Journal of Alloys and Compounds*, *551*, 422–429. https://doi.org/10.1016/j.jallcom.2012.11.024

Dzhurinskiy, D., Gao, Y., Yeung, W. K., Strumban, E., Leshchinsky, V., Chu, P. J., Matthews, A., Yerokhin, A., & Maev, R. G. (2015). Characterization and corrosion evaluation of TiO2:n-HA coatings on titanium alloy formed by plasma electrolytic oxidation. *Surface and Coatings Technology*, *269*(1), 258–265. https://doi.org/10.1016/j.surfcoat.2015.01.022

Epp, J. (2016). 4 - X-ray diffraction (XRD) techniques for materials characterization. In G. Hübschen, I. Altpeter, R. Tschuncky, & H.-G. Herrmann (Ed.), *Materials Characterization Using Nondestructive Evaluation (NDE) Methods* (hal. 81–124). Woodhead Publishing. https://doi.org/https://doi.org/10.1016/B978-0-08-100040-3.00004-3

Fitriani, C. Y., & Wibawa, A. (2019). Biokompatibilitas Material Titanium Implan Gigi. *Insisiva Dental Journal : Majalah Kedokteran Gigi Insisiva*, *8*(2). https://doi.org/10.18196/di.8208

Fultz, B., & Howe, J. (2013). *Diffraction and the X-Ray Powder Diffractometer* (hal. 1–57). https://doi.org/10.1007/978-3-642-29761-8_1

Gilbert, J. L. (2020). *Metals: Basic Principles in Biomaterials science : an introduction to materials in medicine*.

Herath, I., Davies, J., Will, G., Tran, P. A., Velic, A., Sarvghad, M., Islam, M., Paritala, P. K., Jaggessar, A., Schuetz, M., Chatterjee, K., & Yarlagadda, P. K.

D. V. (2022). Anodization of medical grade stainless steel for improved corrosion resistance and nanostructure formation targeting biomedical applications. *Electrochimica Acta*, *416*, 140274. https://doi.org/https://doi.org/10.1016/j.electacta.2022.140274

Hermawan, H. (2019). *Pengenalan pada biomaterial*. https://doi.org/10.31227/osf.io/v3z5t

Hou, F., Gorthy, R., Mardon, I., Tang, D., & Goode, C. (2022). Low voltage environmentally friendly plasma electrolytic oxidation process for titanium alloys. *Scientific Reports*, *12*(1). https://doi.org/10.1038/s41598-022-09693-w

Hsieh, J. H., Li, C., Lin, Y. C., Chiu, C. H., Hu, C. C., & Chang, Y. H. (2015). Antibacteria and anti-wear TaN–(Ag,Cu) nanocomposite thin films deposited on polyether ether ketone. *Thin Solid Films*, *584*, 277–282. https://doi.org/https://doi.org/10.1016/j.tsf.2015.02.063

Hussein, R. O., Northwood, D. O., & Nie, X. (2010). Coating growth behavior during the plasma electrolytic oxidation process. *Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films*, *28*(4), 766–773. https://doi.org/10.1116/1.3429583

Jameel, A. (2015). *Study Of Mechanical Properties Of Bones And Mechanics Of Bone Fracture Estimation of Crack Tip Plastic Zones View project Large Deformation in Bi-Material Components View project*. *December*. https://www.researchgate.net/publication/307982612

Kang, B. M., Park, H.-K., Jang, J.-H., Jeong, W.-J., Lee, K.-K., Oh, I.-H., Cho, H.-S., Ahn, H.-G., & Lim, Y.-S. (2014). A Study on the Sintering Of HAp Sputtering Target Material for Biomedical Applications. *International Journal of Innovative Research in Science, Engineering and Technology*, *03*, 15068–15075. https://doi.org/10.15680/IJIRSET.2014.0308003

Kossenko, A., Lugovskoy, S., Kazanski, B., Astashina, N., & Vagner, E. A. (2013). *Effect of pH on the formation of hydroxyapatite in PEO process with hydrothermal treatment of the Ti alloy Non ferrous alloys strengthening by nanomaterials View project Treatment on Titanium Alloys View project*. https://www.researchgate.net/publication/272240872

Kostelac, L., Pezzato, L., Settimi, A. G., Franceschi, M., Gennari, C., Brunelli, K., Rampazzo, C., & Dabalà, M. (2022). Investigation of hydroxyapatite (HAP) containing coating on grade 2 titanium alloy prepared by plasma electrolytic oxidation (PEO) at low voltage. *Surfaces and Interfaces*, *30*. https://doi.org/10.1016/j.surfin.2022.101888

Liu, F., Wang, F., Shimizu, T., Igarashi, K., & Zhao, L. (2005). Formation of hydroxyapatite on Ti–6Al–4V alloy by microarc oxidation and hydrothermal treatment. *Surface and Coatings Technology*, *199*(2), 220–224. https://doi.org/https://doi.org/10.1016/j.surfcoat.2004.10.146

Masta, N. (2020). BMPScanningElectronMicroscopy. *BMP.UKI:NM-01-SEM-PFis-I-2020*.

Morsiya, C. (2020). A review on parameters affecting properties of biomaterial SS 316L. *Australian Journal of Mechanical Engineering*, *20*, 1–11. https://doi.org/10.1080/14484846.2020.1752975

Murugan, R., & Ramakrishna, S. (2007). Design strategies of tissue engineering scaffolds with controlled fiber orientation. *Tissue Engineering*, *13*(8), 1845–1866. https://doi.org/10.1089/ten.2006.0078

Nikoomanzari, E., Karbasi, M., C.M.A. Melo, W., Moris, H., Babaei, K., Giannakis, S., & Fattah-alhosseini, A. (2022). Impressive strides in antibacterial performance amelioration of Ti-based implants via plasma electrolytic oxidation (PEO): A review of the recent advancements. In *Chemical Engineering Journal* (Vol. 441). Elsevier B.V. https://doi.org/10.1016/j.cej.2022.136003

Pbio, A. (2012). *Abalone, Antara Kesejahteraan dan Ancaman*. https://pbio.uad.ac.id/abalon-antara-kesejahteraan-dan-ancaman/

Permatasari, H. A., Sari, M., Aminatun, Suciati, T., Dahlan, K., & Yusuf, Y. (2021). Nano-carbonated hydroxyapatite precipitation from abalone shell (Haliotis asinina) waste as the bioceramics candidate for bone tissue engineering. *Nanomaterials and Nanotechnology*, *11*, 1–9. https://doi.org/10.1177/18479804211032851

Purnama, D. (2016). *Efek Penambahan Poly(Vinyl Pyprolidine) (PVP) Pada Variasi Konsentrasi Ca2+ dan PO43- Dalam Komposit Selulosa Mikrobial-Hidroksiapatit Sebagai Scaffold Untuk Bone Healing*. 10–28.

Qiao, L. P., Lou, J., Zhang, S. F., Qu, B., Chang, W. H., & Zhang, R. F. (2016). The entrance mechanism of calcium and phosphorus elements into micro arc oxidation coatings developed on Ti6Al4V alloy. *Surface and Coatings Technology*, *285*, 187–196. https://doi.org/https://doi.org/10.1016/j.surfcoat.2015.11.041

Raghavendra, G. M., Varaprasad, K., & Jayaramudu, T. (2015). Biomaterials: Design, Development and Biomedical Applications. In *Nanotechnology Applications for Tissue Engineering* (hal. 21–44). Elsevier Inc. https://doi.org/10.1016/B978-0-323-32889-0.00002-9

Ratnasari, D., Hermanihadi, S., Indriyanto, W., Fathony, A., H, F. D. W., & R, P. A. (2009). *X-Ray Diffraction (XRD)*. 1–7.

Ratner, B. D., Hoffman, A. S., Schoen, F. J., Lemons, J. E., Wagner, W. R., Sakiyama-Elbert, S. E., Zhang, G., & Yaszemski, M. J. (2020). *Biomaterials science : an introduction to materials in medicine*.

Rodriguez-Nieva, J., Bringa, E., Cassidy, T., Johnson, R., Caro, A., Famá, M., Loeffler, M., Baragiola, R., & Farkas, D. (2011). Sputtering from a Porous Material by Penetrating Ions. *The Astrophysical Journal Letters*, *743*, L5. https://doi.org/10.1088/2041-8205/743/1/L5

Rujitanapanich, S., Kumpapan, P., & Wanjanoi, P. (2014). Synthesis of hydroxyapatite from oyster shell via precipitation. *Energy Procedia*, *56*(C), 112–117. https://doi.org/10.1016/j.egypro.2014.07.138

Rusrial, G., & Affi, J. (2018). Analisa Metalurgi Kasus Kegagalan Pelat Logam Implan Untuk Fikasi Patah Tulang Dan Perbandingannya Dengan Logam Implan Baru. *Jurnal Teknik Industri Terintegrasi (JUTIN)*, *1*(1).

Salahshouri, F., Saebnoori, E., Borghei, S., Mossahebi-Mohammadi, M., Bakhsheshi-Rad, H. R., & Berto, F. (2022). Plasma Electrolytic Oxidation (PEO) Coating on γ-TiAl Alloy: Investigation of Bioactivity and Corrosion Behavior in Simulated Body Fluid. *Metals*, *12*(11). https://doi.org/10.3390/met12111866

Sari, M., Hening, P., Chotimah, Ana, I. D., & Yusuf, Y. (2021). Bioceramic hydroxyapatite-based scaffold with a porous structure using honeycomb as a natural polymeric Porogen for bone tissue engineering. *Biomaterials Research*, *25*(1), 1–13. https://doi.org/10.1186/s40824-021-00203-z

Sari, M., Kristianto, N. A., Chotimah, Ana, I. D., & Yusuf, Y. (2021). Carbonated hydroxyapatite-based honeycomb scaffold coatings on a titanium alloy for bone implant application—physicochemical and mechanical properties analysis. *Coatings*, *11*(8). https://doi.org/10.3390/coatings11080941

Sikdar, S., Menezes, P. V., Maccione, R., Jacob, T., & Menezes, P. L. (2021). Plasma electrolytic oxidation (Peo) process—processing, properties, and applications. In *Nanomaterials* (Vol. 11, Nomor 6). MDPI AG. https://doi.org/10.3390/nano11061375

Simchen, F., Sieber, M., Kopp, A., & Lampke, T. (2020). Introduction to plasma electrolytic oxidation-an overview of the process and applications. In *Coatings* (Vol. 10, Nomor 7). MDPI AG. https://doi.org/10.3390/coatings10070628

Siswanto, Hikmawati, D., Benecdita, N., & Nurmala, S. (2020). Synthesis of Hydroxyapatite Based on Nano Coral Using precipitation Method for Bone Substitution. *Journal of Physics: Conference Series*, *1445*(1). https://doi.org/10.1088/1742-6596/1445/1/012015

Songur, F., Dikici, B., Niinomi, M., & Arslan, E. (2019). The plasma electrolytic oxidation (PEO) coatings to enhance in-vitro corrosion resistance of Ti–29Nb–13Ta–4.6Zr alloys: The combined effect of duty cycle and the deposition frequency. *Surface and Coatings Technology*, *374*, 345–354. https://doi.org/10.1016/j.surfcoat.2019.06.025

Stanishevsky, A. V, & Holliday, S. (2007). Mechanical properties of sol–gel calcium titanate bioceramic coatings on titanium. *Surface and Coatings Technology*, *202*(4), 1236–1241. https://doi.org/https://doi.org/10.1016/j.surfcoat.2007.07.091

Wahyu, P., Abi, S., Abi, S., Febrianto, V., & Azis, W. (2017). *ILMU LOGAM PENGENALAN TITANIUM*.

Wang, Y., Tang, H., Wang, R., Tan, Y., Zhang, H., & Peng, S. (2016). Cathodic voltage-dependent composition, microstructure and corrosion resistance of plasma electrolytic oxidation coatings formed on Zr-4 alloy. *RSC Adv.*, *6*.

https://doi.org/10.1039/C6RA06197D

Wei, D., Zhou, Y., Jia, D., & Wang, Y. (2008). Chemical treatment of TiO 2 -based coatings formed by plasma electrolytic oxidation in electrolyte containing nano-HA, calcium salts and phosphates for biomedical applications. *Applied Surface Science*, *254*(6), 1775–1782. https://doi.org/10.1016/j.apsusc.2007.07.144

Williams, D. F. (1987). Tissue-biomaterial interactions. *Journal of Materials Science*, *22*(10), 3421–3445. https://doi.org/10.1007/BF01161439

Yu, J. M., Cho, H. R., & Choe, H. C. (2022). Electrochemical characteristics of Sr/Si-doped hydroxyapatite coating on the Ti alloy surface via plasma electrolytic oxidation. *Thin Solid Films*, *746*. https://doi.org/10.1016/j.tsf.2022.139124

Yusuf, Y., Khasanah, D. U., Syafaat, F. Y., Pawarangan, I., Sari, M., Mawuntu, V. J., & Rizkayanti, Y. (2019). *Hidroksiapatit Berbahan Dasar Biogenik* (Ifan (ed.)). Gadjah Mada University Press.

Zhang, E., Zhao, X., Hu, J., Wang, R., Fu, S., & Qin, G. (2021). Antibacterial metals and alloys for potential biomedical implants. *Bioactive Materials*, *6*(8), 2569–2612. https://doi.org/https://doi.org/10.1016/j.bioactmat.2021.01.030