

DAFTAR PUSTAKA

- [1] World health organization. "Chronic Rheumatic Conditions". WHO. 2017 <http://www.who.int/chp/topics/rheumatic/en/> diakses pada 15 September 2018, pukul 13.14 WIB.
- [2] Medscape. "Rheumatoid Arthritis: In and Out of the Joint". 2017 <https://reference.medscape.com/slideshow/rheumatoid-arthritis-6006748#4> diakses pada 15 September 2018, pukul 13.32 WIB.
- [3] Global Alliance for Musculoskeletal Health. "Bone and Joint Decade's Musculoskeletal". 2007 <http://www.boneandjointdecade.org> diakses pada 15 September 2018, pukul 15.11 WIB.
- [4] WebMD. "Understanding Rheumatoid Arthritis Treatment". 2018 <https://www.webmd.com/rheumatoid-arthritis/understanding-rheumatoid-arthritis-treatment#2> diakses pada 15 September 2018, pukul 15.26 WIB.
- [5] T. V. Thamaraiselvi and S. Rajeswari, "Electrochemical behaviour of alkali treated and hydroxyapatite coated 316 LVM," *Trends Biomater. Artif. Organs*, vol. 18, no. 2, pp. 242–246, 2005.
- [6] I. C. Lavos-Valereto, S. Wolynec, I. Ramires, A. C. Guastaldi, and I. Costa, "Electrochemical impedance spectroscopy characterization of passive film formed on implant Ti-6Al-7Nb alloy in Hank's solution," *J. Mater. Sci. Mater. Med.*, vol. 15, no. 1, pp. 55–59, 2004.
- [7] I. L. Vegting *et al.*, "Analysing completion times in an academic emergency department: Coordination of care is the weakest link," *Neth. J. Med.*, vol. 69, no. 9, pp. 392–398, 2011.
- [8] Chen, F., Lam, W.M., 2006, Biocompatibility of Electrophoretical Deposition of Nanostructured Hydroxyapatite Coating on Roughen Titanium Surface: In Vitro Evaluation Using Mesenchymal Stem Cells, DOI: 10.1002/jbm.b.30720
- [9] C. Massaro *et al.*, "Comparative investigation of the surface properties of

- commercial titanium dental implants. Part I: Chemical composition,” *J. Mater. Sci. Mater. Med.*, vol. 13, no. 6, pp. 535–548, 2002.
- [10] M. Niinomi and M. Nakai, “Titanium-based biomaterials for preventing stress shielding between implant devices and bone,” *Int. J. Biomater.*, vol. 2011, 2011.
- [11] M. Niinomi, T. Akahori, S. Katsura, K. Yamauchi, and M. Ogawa, “Mechanical characteristics and microstructure of drawn wire of Ti-29Nb-13Ta-4.6Zr for biomedical applications,” *Mater. Sci. Eng. C*, vol. 27, no. 1, pp. 154–161, 2007.
- [12] T. Akahori, M. Niinomi, M. Nakai, H. Fukuda, H. Fukui, and M. Ogawa, “Bioactive Ceramic Surface Modification of α -Type Ti-Nb-Ta-Zr System Alloy by Alkali Solution Treatment,” *Mater. Trans.*, vol. 48, no. 3, pp. 293–300, 2007.
- [13] E. Takematsu *et al.*, “Adhesive strength of bioactive oxide layers fabricated on TNTZ alloy by three different alkali-solution treatments,” *J. Mech. Behav. Biomed. Mater.*, vol. 61, pp. 174–181, 2016.
- [14] L. Yao, C. Chen, D. G. Wang, Q. Bao, and J. Ma, “Advancement in preparation of hydroxyapatite/bioglass gtahed coatings by electrophoretic deposition,” *Surf. Rev. Lett.*, vol. 12, no. 5–6, pp. 773–779, 2005.
- [15] R. N. Garifullin, “Construction of an asymptotic solution of the auto-resonance problem. Inner decomposition,” *J. Math. Sci.*, vol. 151, no. 1, pp. 2651–2663, 2008.
- [16] J. Huang, S. M. Best, W. Bonfield, and T. Buckland, “Development and characterization of titanium-containing hydroxyapatite for medical applications,” *Acta Biomater.*, vol. 6, no. 1, pp. 241–249, 2010.
- [17] T. Peltola, M. Pätsi, H. Rahiala, I. Kangasniemi, and A. Yli-Urpo, “Calcium phosphate induction by sol-gel-derived titania coatings on titanium substrates in vitro,” *J. Biomed. Mater. Res.*, vol. 41, no. 3, pp.

- 504–510, 1998.
- [18] J. Ma, H. Wong, L. B. Kong, and K. W. Peng, “Biomimetic processing of nanocrystallite bioactive apatite coating on titanium,” *Nanotechnology*, vol. 14, no. 6, pp. 619–623, 2003.
 - [19] N. Eliaz and T. M. Sridh, “Electrococrystallization of hydroxyapatite and its dependence on solution conditions,” *Cryst. Growth Des.*, vol. 8, no. 11, pp. 3965–3977, 2008.
 - [20] P. Mondragón-Cortez and G. Vargas-Gutiérrez, “Electrophoretic deposition of hydroxyapatite submicron particles at high voltages,” *Mater. Lett.*, vol. 58, no. 7–8, pp. 1336–1339, 2004.
 - [21] K. L. Mittal, *Adhesion Measurement of Films and Coatings*. 1995.
 - [22] D3359-09, “Standard Test Methods for Measuring Adhesion by Tape Test,” *Astm*, no. December 2007, pp. 1–7, 2013.
 - [23] Y. MATSUMOTO, M. UEMURA, N. HIBINO, and M. YAMAMOTO, “Clinical usefulness of the 1987 revised criteria for rheumatoid arthritis by American Rheumatism Association.,” *Nihon Naika Gakkai Zasshi*, vol. 77, no. 5, pp. 742–743, 1988.
 - [24] D. Bombač, M. Brojan, P. Fajfar, F. Kosel, and R. Turk, “Review of materials in medical applications,” *RMZ – Mater. Geoenvironment*, vol. 54, no. 4, pp. 471–499, 2007.
 - [25] Widayastuti, “Synthesis and Characterization of Carbonated Hydroxyapatite as Bioceramic Material,” pp. 1–2, 2009.
 - [26] J. Stráský *et al.*, “Increasing strength of a biomedical Ti-Nb-Ta-Zr alloy by alloying with Fe, Si and O,” *J. Mech. Behav. Biomed. Mater.*, vol. 71, no. April, pp. 329–336, 2017.
 - [27] J. Stráský *et al.*, “Increasing strength of a biomedical Ti-Nb-Ta-Zr alloy by alloying with Fe, Si and O,” *J. Mech. Behav. Biomed. Mater.*, vol. 71, no.

March, pp. 329–336, 2017.

- [28] T. S. B. Narasaraju and D. E. Phebe, “Some physico-chemical aspects of hydroxylapatite,” *J. Mater. Sci.*, vol. 31, no. 1, pp. 1–21, 1996.
- [29] A. Datyner and M. T. Pailthorpe, “A study of dyestuff aggregation,” *Dye. Pigment.*, vol. 8, no. 4, pp. 253–263, 1987.
- [30] S. Nag and R. Banerjee, “Fundamentals of Medical Implant Materials,” *Mater. Med. devices*, vol. 23, pp. 6–17, 2012.
- [31] Z. C. Wang, F. Chen, L. M. Huang, and C. J. Lin, “Electrophoretic deposition and characterization of nano-sized hydroxyapatite particles,” *J. Mater. Sci.*, vol. 40, no. 18, pp. 4955–4957, 2005.
- [32] A. A. Abdeltawab, M. A. Shoeib, and S. G. Mohamed, “Electrophoretic deposition of hydroxyapatite coatings on titanium from dimethylformamide suspensions,” *Surf. Coatings Technol.*, vol. 206, no. 1, pp. 43–50, 2011.
- [33] A. R. Boccaccini, S. Keim, R. Ma, Y. Li, and I. Zhitomirsky, “Electrophoretic deposition of biomaterials,” *J. R. Soc. Interface*, vol. 7, no. SUPPL. 5, 2010.
- [34] D. Horkavcová, B. Plešingerová, A. Helebrant, M. Vojtko, and V. Procházka, “Adhesion of the bioactive layer on titanium alloy substrate by tape-test,” *Ceram. - Silikaty*, vol. 52, no. 3, pp. 130–138, 2008.
- [35] A. Tahmasbi, M. Solati-hashjin, N. Azuan, A. Osman, and S. Faghihi, “Improved bio-physical performance of hydroxyapatite coatings obtained by electrophoretic deposition at dynamic voltage,” vol. 40, pp. 12681–12691, 2014.
- [36] D3359-07, “Standard Test Methods for Measuring Adhesion by Tape Test,” *Astm*, no. December 2007, pp. 1–7, 2013.
- [37] R. Drevet, N. Ben Jaber, J. Fauré, A. Tara, A. Ben Cheikh, and H. Benhayoune, “Surface & Coatings Technology Electrophoretic deposition (

- EPD) of nano-hydroxyapatite coatings with improved mechanical properties on prosthetic Ti6Al4V substrates,” *Surf. Coat. Technol.*, vol. 301, pp. 94–99, 2016.
- [38] L. Aprilia, R. Nuryadi, W. Rianti, and D. Gustiono, “PREPARASI LAPISAN HIDROKSIAPATIT PADA SUBSTRAT STAINLESS STEEL 316 DENGAN METODE DEPOSISI ELEKTROFORESIS (PREPARATION OF HYDROXYAPATITE FILM ON STAINLESS STEEL 316,” 2003.
- [39] H. C. Man, K. Y. Chiu, F. T. Cheng, and K. H. Wong, “Adhesion study of pulsed laser deposited hydroxyapatite coating on laser surface nitrided titanium,” *Thin Solid Films*, vol. 517, no. 18, pp. 5496–5501, 2009.
- [40] N. J. Hallab, K. J. Bundy, K. O. Connor, R. L. Moses, and J. J. Jacobs, “Evaluation of Metallic and Polymeric Biomaterial Surface Energy and Surface Roughness Characteristics for Directed Cell Adhesion,” vol. 7, no. 1, pp. 55–71, 2001.