

DAFTAR PUSTAKA

- Affshana, M. (2015). Healing Mechanism in Bone Fracture. *Journal of Pharmaceutical Science and Research*. Volume 7. Issue 7, 441-442.
- Anderson, J. M., Rodriguez, A., & Chang, D. T. (2008). Foreign Body Reaction to Biomaterials. *Seminars in Immunology*. Volume 20. Issue 2, 86-100.
- Bagha, S., Khaleghpanah, S., Shebani, S., Khakbiz, S., & Zakeri, A. (2018). Characterization of Nanostructured Biodegradable Zn-Mn Alloy Synthesized by Mechanical Alloying. *Journal of Alloys Compound*. Volume 735, 1319-1327.
- Bagnoli, F., Rappuoli, R., & Grandi, G. (2017). *Staphylococcus aureus: Microbiology, Pathology, Immunology, Therapy and Prophylaxis*. Switzerland: Springer.
- Bahuguna, A., Khan, I., Bajpai, V. K., & Kang, S. C. (2017). MTT Assay to Evaluate the Cytotoxic Potential of a Drug. *Bangladesh Pharmacology*. Volume 12. Issue 2, 115-118.
- Bakhsheshi-Rad, H. R., Hamzah, E., Low, H. T., & Kasiri-Asgarani, M. (2017). Fabrication of biodegradable Zn-Al-Mg alloy: Mechanical properties, corrosion behavior, cytotoxicity and antibacterial activities. *Materials Science and Engineering*. Chapter 73, 215-219.
- Beltran-Partida, E., Moreno-Ulloa, A., Valdez-salas, B., Velasquillo, C., Carrillo, M., & Escamila, A. (2015). Improved Osteoblast and Chondrocyte Adhesion and Viability by Surface-Modified Ti6Al4V Alloy with Anodized TiO₂ Nanotubes Using a Super-Oxidative Solution. *Materials*. Volume 8. Issue 3, 867-883.
- Blom, A., Warwick, D., & Whitehouse, M. R. (2018). *Apley & Solomon System of Orthopaedics and Trauma*. Bristol: Taylor & Francis Group.

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

- Bowen, P., Drelich, J., & Goldman, J. (2013). Zinc Exhibits Ideal Physiological Corrosion Behavior for Bioabsorbable Stents. *Advanced Materials. Volume 25. Issue 18*, 2577-2582.
- Bucholz R.W., Heckman J.D., & Court-Brown C.M. (2006). *Rockwood & Green's Fracture in Adults*. Maryland: Maryland Composition.
- Chiriac, V., Stratulat, D., Calin, G., Nichitus, S., & Burlui, V. (2016). Antimicrobial Property of Zinc Based Nanoparticles. *Materials Science and Engineering. Chapter 133*, 51-68.
- Costa, L. G., & Aschner, M. (2017). *Manganese in Health and Disease*. Cambridge: The Royal Society of Chemistry.
- DeGarmo, P., Black, J., & Kohser, R. (2003). *Materials and Processes in Manufacturing*. USA: John Wiley & Sons, Inc .
- El-Eskandarany, M. S. (2015). *Mechanical Alloying: Nanotechnology, Material Science and Powder Metallurgy*. Kuwait: Elsevier Inc.
- Fazwishni S., & Hadijono B.S. (2000). Uji Sitotoksitas dengan Esei MTT. *Jurnal Kedokteran Gigi Universitas Indonesia Edisi Khusus*, 28-32.
- Ferdiansyah, Rushadi, D., Rantam, F. A., & Aulani'am. (2011). Regenerasi pada Massive Bone Defect dengan Bovine Hidroxyapatite sebagai Scaffold Mesenchymal Stem Cell. *Jurnal Biosains Pascasarjana. Volume 13*, 179-195.
- Fetsch, A. (2018). *Staphylococcus aureus*. London: Elsevier Inc.
- Frank, A.M, & Muller, L. (2006). Preparation of SBF with Different Content and its Influence on The Composition of Biomimetic Apatites. *Acta Biomaterialia. Volume 2. Issue 2*, 181-189.

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

- Froes , F. H., & Pickens, J. R. (2014). Powder Metallurgy of Light Metal Alloys for Demanding Applications. *Journal of Metals. Volume 36*, 14-28.
- German, R. M. (2016). *Particulate Composites: Fundamentals and Applications*. San Diego: Springer.
- Herlund, E., Svenbom, A., Ivegard, M., & Compston, J. (2013). Osteoporosis in the European Union: medical management, epidemiology and economic burden. A report prepared in collaboration with the International Osteoporosis Foundation (IOF) and the European Federation of Pharmaceutical Industry Associations (EFPIA). *Archives of Osteoporosis. Volume 8. Issue 136*, 1-115.
- Huang, H., Tang, Z., Niu, J., Zhang, J., Pei, J., & Ou, G. (2017). Potential Biodegradable Zn-Cu Binary Alloys Developed for Cardiovascular Implant Applications. *Journal of Mechanical Behavior Biomedical Matter. Chapter 72*, 182-191.
- Kalfas, I. (2001). Principle of Bone Healing. *Neurosurgery Focus. Volume 10*, 57-71.
- Kao, Y., Chen, Y., Cheng, Y., Chiung, Y., & Liu, P. (2012). Zinc Oxide Nanoparticles Interfere With Zinc Ion Homeostasis to Cause Cytotoxicity. *Toxicological Science. Volume 125. Issue 2*, 462-472.
- Levy, G. K., Goldman, J., & Aghion, E. (2017). The Prospects of Zinc as a Structural Material for Biodegradable Implants. *Metals. Volume 7. Issue 402*, 1-18.
- Li, H., Zheng, Y., & Qin, L. (2014). Progress of biodegradable metals. *Progress in Natural Science: Materials International. Volume 24. Issue 5*, 414-422.
- Li, Z., Gu, X., Lou, S., & Zheng, Y. (2008). The development of binary Mg–Ca alloys for use as biodegradable materials within bone. *Biomaterials. Volume 29. Issue 10*, 1329-1344.

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

- Lieberman, J., & Friedlaender, G. (2005). *Bone Regeneration and Repair*. New Jersey: Humana Press.
- Lin, S., Wang, Q., Yan, X., Ran, X., Wang, L., Zhoun, J., et al. (2018). Mechanical properties, Degradation Behaviors and Biocompatibility Evaluation of a Biodegradable Zn-Mg-Cu Alloy for Cardiovascular Implants. *Materials Letters. Volume 234*, 294-297.
- Liu, X., Sun, J., Zhou, F., Yang, Y., & Chang, R. (2015). Micro-Alloying with Mn in Zn-Mg alloy for future Biodegradable Metals Application. *Materials Design. Volume 15*, 95-104.
- Massaro, E. J. (2002). *Handbook of Copper Pharmacology and Toxicology*. New Jersey: Humana Press Inc.
- Meerloo, J., Kaspers, G., & Cloos, J. (2011). Cell Sensitivity Assays: The MTT Assay. *Method in Molecular Biology*, 237-245.
- Meyer, U., & Wiesmann, H. P. (2006). *Bone and Cartilage Engineering*. Berlin: Springer.
- Montanaro, L., Speziale, P., Campocia, D., Ravaioli, S., & Cangini, I. (2011). Scenery of Staphylococcus Implant Infections in Orthopedics. *Future Microbiology. Volume 6. Issue 11*, 1329-1349.
- Moran, D. S., Israeli, E., Evans, R. K., Yanovich, R., & Constantini, N. (2008). Prediction Model for Stress Fracture in Young Female Recruits During Basic Training. *Medical Science Sports Exercise. Volume 40. Issue 5*, 636-644.
- Nayagam S, Solomon L, & Warwick D. (2010). *Apley's System of Orthopaedics and Fractures*. London: Hodder Education.
- Ning, C., Wang, X., Li, L., Zhu, Y., Li, M., Yu, P., et al. (2015). Concentration Ranges of Antibacterial Cations for Showing the Highest Antibacterial

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

Efficacy but the Least Cytotoxicity against Mammalian Cells: Implications for a New Antibacterial Mechanism. *Chemical Research in Toxicology*. Volume 28. Issue 9, 1815-1822.

Osterhoff, G., Morgan, E., Shefelbine, S., Karim, L., & McNamara, L. (2016). Bone mechanical properties and changes with osteoporosis. *Injury*. Volume 47. Supplement 2, 511-520.

Park, Y., Kim, S. H., Matalon, S., Wang, N.-H. L., & Franses, E. (2009). Effect of Phosphate Salts Concentrations, Supporting Electrolytes, and Calcium. *Fluid Phase Equilibria*. Volume 278. Issue 1-2, 76-84.

Peuster, M., Hesse, C., Schloo, T., Fink, C., & Beerbaum, P. (2006). Long-term biocompatibility of a corrodible peripheral iron stent in the porcine descending aorta. *Biomaterials*. Volume 27. Issue 28, 4955-4962.

Rohaeti, E. (2009). Karakterisasi Biodegradasi Polimer. *Jurnal Pendidikan Kimia FMIPA Universitas Yogyakarta*, 248-257.

Russel, R., Munro, I. C., Murphy, S., & Young, V. R. (2002). *Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, vanadi: Um, and Zinc*. Washington DC: National Academy Press.

Saad, A. P., Jasmawati, N., Harun, M., Kadir, M., & Nur, H. (2016). Dynamic degradation of porous magnesium under a simulated environment of human cancellous bone. *Corrosion Science*. Volume 112, 495-506.

Sahid, A., Pandiangan, D., Siahaan, P., & Rumondor, M. J. (2013). Uji Sitotoksitas Ekstrak Metanol Daun Sisik Naga (*Drymoglossum piloselleoides* Presl.) Terhadap Sel Leukimia. *Jurnal MIPA Universitas Sam Ratulangi Online*. Edisi 2. Nomor 2, 94-99.

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

- Salak, A., Selecka, M., & Danninger, H. (2005). *Machinability of Powder Metallurgy Steels*. Cambridge: Cambridge International Science Publishing.
- Shearier, E. R., Bowen, P. K., He, W., Drelich, A., Goldman, J., & Zhao, F. (2016). In Vitro Cytotoxicity, Adhesion, and Proliferation of Human Vascular Cells Exposed to Zinc. *ACS Biomaterials Science & Engineering. Volume 2. Issue 4*, 634-642.
- Shi, Z., Yu, J., Liu, X., & Wang, L. (2017). Fabrication and Characterization of Novel Biodegradable Zn-Mn-Cu Alloy. *Journal of Matter Science Technology. Volume 34. Issue 6*, 1008-1015.
- Skotnicova, K., Kursá, M., & Szurman, I. (2014). *Powder Metallurgy*. Ceko: Technical University of Ostrava.
- Sloane, E. (2003). *Anatomi dan Fisiologi untuk Pemula*. Jakarta: ECG.
- Smallman, R. (2007). *Physical Metallurgy and Advanced Materials*. Amsterdam : Elsevier.
- Soloz, M. (2018). *Copper Toxicity*. Bern: Springerfer.
- Stockert, J. C. (2012). MTT Assay for Cell Viability: Intracellular Localization of the Formazan Product in Lipid Droplets. *Acta Histochemica. Volume 114. Issue 8*, 785-796.
- Sustarsic, B., Paulin, I., Godec, M., Glodez, S., & Sori, M. (2014). Morphological dan Microstructural Features of Al-Based Alloyed Powders for Powder-Metallurgy Applications. *Materials and technology. Volume 48. Issue 3*, 443-448.
- Takagi, M. (2001). Bone Implant Interface Biology - Foreign Body Reaction and Periprosthetic Osteolysis in Artificial Hip Joint. *Journal of Clinical Hematopathology. Volume 41. Number 2*, 1-7.

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

- Tang, Z., Niu, J., Huang, H., Zhang, J., Pei, J., & Ou, G. (2017). Potential Biodegradable Zn-Cu Binary Alloys Developed for Cardiovascular Implant Applications. *Journal of Mechanical Behavior Biomedical Matter. Chapter 72*, 182-191.
- Tapiero, H., & Tew, K. D. (2003). Trace elements in human physiology and pathology: zinc and metallothioneins. *Biomedicine & Pharmacotherapy. Volume 57. Issue 9*, 399-411.
- Tortora, G. J., & Derrickson, B. (2009). *Principles of Anatomy and Physiology*. United States of America: John Wiley & Sons, Inc.
- Upadhyaya, G. S. (1998). *Powder Metallurgy Technology*. Cambridge: Cambridge International Science Publishing.
- Venezuela, J., & Dagusch, M. (2019). The Influence of Alloying and Fabrication Techniques on the Mechanical Properties, Biodegradability and Biocompatibility of Zinc: A Comprehensive Review. *Acta Biomaterialia. Volume 87*, 1-40.
- Vojtech, D., Kubasek, J., Serak, J., & Novak, P. (2011). Mechanical and corrosion properties of newly developed biodegradable Zn-based alloys for bone fixation. *Acta Biomaterialia. Volume 7. Issue 9*, 3515-3522.
- Wang, F. E. (2005). *Bonding Theory for Metals and Alloys*. United States: Mexmat.
- Warwick, D., Apley, A., & Selvadurai, N. (2001). *Apley's system of orthopaedics and fractures ninth edition*. Bristol : CRC Press.
- Watanabe, H., Kono, N., & Gonda, M. (1972). A Study of the Phase Diagram of the Ternary Cu-Zn-Mn System. *Journal of the Japan Institute of Metals and Materials. Chapter 36*, 297-305.

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

- Yang, L., Hsu, K., Baughman, B., Gofrey, D., & Medina, F. (2017). *Additive Manufacturing of Metals: The Technology, Materials, Design and Production*. USA: Springer.
- Ylinen, P. (2006). *Applicaton of coralline hydroxyapatite with bioabsorbable containment and reinforcement as bone graft substitute*. Helsinki: Medical Faculty of the University of Helsinki.
- Yusop, A. H., Bakir, A. A., Shaharom, N. A., Kadir, A., & Hermawan, H. (2012). Porous Biodegradable Metals for Hard Tissue Scaffolds: A Review. *International Journal of Biomaterials*. Volume 2012, 1-10.
- Zamir, M. (2005). *The Physic Of Coronary Blood Flow*. London: Springer.
- Zheng, Y., Gu, X., & Witte, F. (2014). Biodegradable Metals. *Material Science and Engineering*. Volume 77, 1-34.