

## DAFTAR PUSTAKA

- Abdullah, M. Dan Khairurrijal. (2009). **Review: Karakterisasi Nanomaterial.** *Jurnal nanosains dan nanoteknologi.* **Vol. 2.** No.2. 1-9.
- Arya, S.C. and K. B. Sharma. (1995). **Urgent need for effective vaccine against Salmonella paratyphi A, B and C.** *Vaccine.* **Vol. 13.**1727—1728.
- Aymonier, C., U. Schlotterbeck, L. Antonietti, P. Zacharias, R. Thomann, J.C. Tiller and S. Mecking. (2002). **Hybrids of Silver Nanoparticles with Amphiphilic Hyperbranched Macromolecules Exhibiting Antimicrobial Properties.** *Chem Commun.* **Vol. 24.** 9-3018.
- Bakir. (2011). **Pengembangan Biosintesis Nanopartikel Perak Menggunakan Air Rebusan daun Bisbul (*Diospyros blancoi*) untuk Deteksi Ion Tembaga (II) dengan Metode Kolorimetri.** Skripsi. Universitas Indonesia.
- Bharde, A., D. Rautaray, V. Bansal, A. Ahmad, I. Sarkar, Seikh M.Y., *et al.* (2006). **Extracellular Biosynthesis of Magnetite using Fungi.** *Small.* **Vol. 2.** No. 1. 135-141.
- Choerudin. (2016). **Peran Nanomaterial dalam Pengolahan Air Dan Air Limbah.** Bandung: Institut Teknologi Bandung.
- Dar, Mudasir A, Avinash Ingle and Mahendra Rai. (2013). **Enhanced Antimicrobial Activity of Silver Nanoparticles Synthesized by *Criphonectria* sp. Evaluated Singly and in Combination with Antibiotics.** *Jurnal Nanomedicine: Nanotechnology, Biology, and Medicine.* **Vol. 9.** 105-110.
- David, SG. (2004). **Bionanotechnology: lessons from nature.** New York: Wiley.
- Emory, S.R., W.E. Haskins and S. Nie. (1998). **Direct observation of size-dependent optical enhancement in single metal nanoparticles.** *J Am Chem.* **Vol. 120.** 10-8009.
- Elzey, SR. (2010). **Applications and physicochemical characterization of nanomaterials in environmental, health, and safety studies.** Iowa: University of Iowa.
- Feng, Q. L., J. Wu, G.Q. Chen, F.Z. Cui, T.N. Kim and J.O.J. Kim. (2000). **A Mechanistic Study of The Antibacterial Effect of Silver Ions on *Escherichia coli* and *Staphylococcus aureus*.** *Biomed. Mater. Res.* **Vol. 52.** 662–668.

- Gunawan, B. dan Citra D. Azhari. (2010). **Karakterisasi Spektrofotometri I R dan Scanning Electron Microscopy (SEM) Sensor Gas dari Bahan Polimer Poly Ethelyn Glycol (PEG)**. *Journal Sains*. Vol. 3. No. 2. 1-17.
- Gong, P., H. Li, X. He, K. Wang, J. Hu and W. Tan. (2007). **Preparation and Antibacterial Activity of Fe<sub>3</sub>O<sub>4</sub> Ag Nanoparticles**. *Journal of Nanotechnology*. Vol. 18. 604-611.
- Handayani, W. (2011). **Pemanfaatan Tumbuhan Tropis untuk Biosintesis Nanopartikel Perak dan Aplikasinya sebagai Indikator Kolorimetri Keberadaan Logam Berat**. Thesis. Universitas Indonesia.
- Ingle, A., A. Gade, S. Pierrat, C. Sönnichsen and M. Rai. (2008). **Mycosynthesis of Silver Nanoparticles Using The Fungus *Fusarium Acuminatum* and Its Activity Against Some Human Pathogenic Bacteria**. *Curr Nanosci*. Vol. 4. 4-141.
- Ivask, A., A. El Badawy, C. Kaweeteerawat, D. Boren, H. Fischer, Z. Ji, C.H. Chang, R. Liu, T. Tolaymat, D. Telesca, J.I. Zink, Y. Cohen, P.A. Holden dan H.A. Godwin. (2014). **Toxicity Mechanisms in *Escherichia coli* Vary for Silver Nanoparticles and Differ From Ionic Silver**. *ACS Nano*. Vol. 8. 374–386.
- Jay, J.M. (2000). **Modern Food Microbiology. Edisi ke-6**. Gaithersburg (GER): Aspen Publisher Inc.
- Karnan, Thenmozhi and Stanly Arul Samuel Selvakumar. (2016). **Biosynthesis of ZnO Nanoparticles Using Rambutan (*Nephelium lappaceum L.*) Peel Extract and Their Photocatalytic Activity On Methyl Orange Dye**. *Journal of Molecular Structure*. Vol. 1125. 358-365.
- Kumar, Brajesh, Kumari Smita, Alexis Debut and Luis Cumbal. (2015). **Fabrication of Silver Nanoplates Using *Nephelium lappaceum* (Rambutan) Peel: A Sustainable Approach**. *Journal of Molecular Liquids*. Vol. 211. 476-480.
- 
- \_\_\_\_\_ (2016). **Extracellular Green Synthesis of Silver Nanoparticles Using Amazonian fruit Araza (*Eugenia stipitata* Mc Vaugh)**. *Journal of Transactions of Nonferrous Metal Society of China*. Vol. 26. 2363-2371.
- Kumaran, A. and R. J. Karunakaran. (2006). **Nitric oxide radical scavenging active components from *Phyllanthus emblica***. *Plant Foods for Human Nutrition*. Vol. 61. 1–5.
- Lim, T. K. (2013). **Edible Medicinal and Non-Medicinal Plants, Fruits, Vol 6**. Netherlands: Springer. 62-71.
- Lin, S.-Y., C. -C. Wang, Y. -L. Lu, W. -C. Wu, And W. -C. Hou. (2008). **Antioxidant, Antisemcarbazine-sensitive Amine Oxidase and Anti-**

- Hypertensive Activities of Geraniin Isolated from *Phyllanthus urinaria*.** *Journal of Food and Chemical Toxicology*. Vol. 46. 2485-2492.
- Lok, C.-N., C.-M. Ho, R. Chen, Q.-Y. He, W.-Y. Yu, H. Sun, P. K.-H. Tam, J.-F. Chiu and C.-M. Che. (2006). **Proteomic Analysis of the Mode of Antibacterial Action of Silver Nanoparticles.** *J. Proteome Res.* Vol. 5. 916–924.
- Lok, C., C. Ho, R. Chen, Q. He, W. Yu, H. Sun, P. K. H. Tam, J. F. Chiu and C. M. Che. (2007). **Silver Nanoparticles: Partial Oxidation and Antibacterial Activities.** *J Biol Inorg Chem*. Vol. 12. 34-527.
- Madaeni, S. S., N. Ghaemi and H. Rajabi. (2015). **Advances in Polymeric Membranes for Water Treatment.** *Journal of Materials, Processes and Applications*. 3-41.
- Magaldi, S., S. Mata-Essayag, C. Hartung de Capriles, C. Perez, M.T. Colella, C. Olaizola and Y. Ontiveros . (2004). **Well diffusion for antifungal susceptibility testing.** *Int. J. Infect. Dis.* Vol. 8. 39–45.
- Mahtuti, Erni Yohanita. (2004). **Pengaruh Daya Antimikroba Asam Tanat terhadap Pertumbuhan Bakteri *Salmonella typhi* secara In Vitro.** Tesis. Universitas Airlangga.
- Marambio-Jones, C. dan E. M. V. Hoek. (2010). **A Review of The Antibacterial Effects of Silver Nanomaterials and Potential Implications for Human Health and The Environment.** *J. Nanopart. Res.* Vol. 12. 1531–1551.
- Morones, J. R., J.L. Elechiguerra, A. Camacho, K. Holt, J.B. Kouri, J. Tapia Ramirez and M.J. Yacaman. (2005). **The bactericidal effect of silver nanoparticles.** *Nanotechnology*. Vol. 16. 2346–2353.
- Muflihatun, Siti Shofiah dan Edi Suharyadi. (2015). **Sintesis Nanopartikel Nikel Ferrite (NiFe<sub>2</sub>O<sub>4</sub>) dengan Metode Kopersipitasi dan Karakterisasi Sifat Kemagnetannya.** *Jurnal Fisika Indonesia*. Vol. XIX. No.55. 20-25.
- Njoku, V.O., K.Y. Foo, M. Asif and B.H. Hameed. (2014). **Preparation of activated carbon from rambutan (*Nephelium lappaceum*) peel by microwave-induced KOH activation for acid yellow 17 dye adsorption.** *Chemical Engineering Journal*. Vol. 250. 198-204.
- Nurjanah, N. Dan N. Ihsan. (2013). **Ancaman Dibalik Segarnya Buah dan Sayur.** Pustaka Bunda.
- Palanisamy, U., H. M. Cheng, T. Masilamani, T. Subramaniam, L. T. Ling, dan A. K. Radhakrishnan. (2008). **Rind of The Rambutan, *Nephelium***

*lappaceum*, a Potential Source of Natural Antioxidants. *Food Chemistry*. Vol. 109. 54–63.

Palanisamy, Uma D., Lai Teng Ling, Thamilvaani Manaharan and David Appleton. (2011). **Rapid Isolation of Geraniin from *Nephelium lappaceum* Rind Waste and Its Anti-Hyperglycemic Activity.** *Food Chemistry Journal*. Vol. 127. 21-27.

Prakash, A., S. Sharma, N. Ahmad, A. Ghosh and P. Sinha. (2010). **Bacteria mediated extracellular synthesis of metallic nanoparticles.** *Int Res J Biotechnol*. Vol. 5. 9-71.

Payapo, I. A., M. Zakir dan N. H. Soekamto. (2016). **Sintesis Nanopartikel Perak Menggunakan Bioreduktor Ekstrak Daun Ketapang (*Terminalia Catappa*) dan Potensinya sebagai Tabir Surya.** Skripsi. Universitas Hasanuddin.

Putra, Y. M. P. (2017). **Lima sungai Bantul Tercemar Bakteri *E. coli*.** <http://nasional.republika.co.id/berita/nasional/daerah/17/04/03/onttqk284-lima-sungai-bantul-tercemar-bakteri-ecoli>. (28 Agustus 2017)

Rafique, Muhammad, Muhammad Shahid Rafique, Shariqa Hassan Butt, Umber Kalsoom, Amina Afzal, Safia Anjum and Arslan Usman. (2017). **Dependence of The Structural Optical and Thermo-Physical Properties of Gold Nano-Particles Synthesized by Laser Ablation Method on The Nature of Laser.** *International Journal for Light and Electron Optics*. Vol. 134. 140-148.

Rai, M, A.Yadav and A. Gade. (2009). **Silver Nanoparticles as a New Generation of Antimicrobials.** *Journal of Biotechnol Adv*. Vol. 27.76-83.

Raja, Selvaraj, Vinayagam Ramesh and Varadavenkatesan Thivaharan. (2017). **Green Biosynthesis of Silver Nanoparticles using *Calliandra haematocephala* Leaf Extract, Their Antibacterial Activity And Hydrogen Peroxide Sensing Capability.** *Arabian Journal of Chemistry*. Vol. 10. 253-261.

Schaller, M., J. Laude, H. Bodewaldt, G. Hamm dan H.C. Korting. (2004). **Toxicity and Antimicrobial Activity of a Hydrocolloid Dressing Containing Silver Particles in an Ex Vivo Model Of Cutaneous Infection.** *Skin Pharmacol Physiol*. Vol. 17. 31-6.

Seema, S., A. Naheed, P. Anuradha, N.S. Vidya, K.G. Ashok and R.M. Bodh. (2010). **Synthesis of Crystalline Ag Nanoparticles (AgNPs) from Microorganisms.** *Mater Sci Appl*. Vol. 1. 1-7.

- Shin, K.H. and D.K. Cha. (2008). **Microbial Reduction of Nitrate in The aPresence of Nanoscale Zero-Valent Iron.** *Journal of Chemosphere.* Vol. 72. 257-62.
- Sileikaite, A., Igoris Prosycevas, J. Puiso, A. Juraitis and A. Guobiene. (2006). **Analysis of Silver Nanoparticles Produced by Chemical Reduction of Silver Salt Solution.** *Material Science (Medziagotyra).* Vol. 12. No.4, 287-291.
- Silver, S. (2003). **Bacterial Silver Resistance: Molecular Biology and Uses and Misuses of Silver Compounds.** *FEMS Microbiol. Rev.* Vol. 27. 341–353.
- Sondi, I. and Salopek-Sondi B. (2004). **Silver Nanoparticles as Antimicrobial Agent: A Case Study on E. Coli as A Model for Gram-Negative Bacteria.** *J Colloid Interf Sci.* Vol. 275. 177-82.
- Sood, S., A. Kapil, N. Dash, B.K. Das, V. Goel and P. Seth. (1999). **Paratyphoid fever in India: an emerging problem.** *Emerg Infect Dis.* Vol. 5. 483-484.
- Sunaryo, Arie. (2015). **Bahaya, 80 persen sumur warga di Solo Tercemar Bakteri E. coli.** <https://www.merdeka.com/peristiwa/bahaya-80-persen-sumur-warga-di-solo-tercemar-bakteri-e-coli.html> (28 Agustus 2017)
- Talebi S, Ramezani F, Ramezani M. (2010). **Biosynthesis of metal nanoparticles by micro-organisms.** *Nanocon Olomouc. Czech Republic, EU.* Vol. 10. 12-18.
- Teh, S. J., S. L. Yeoh, K. M. Lee, C. W. Lai, S. B. A. Hamid and K. L. Thong. (2016). **Effect of Reduced Graphene Oxide-Hybridized ZnO Thin Films on The Photoinactivation of Staphylococcus aureus and Salmonella enterica serovar typhi.** *Journal of Photochemistry & Photobiology.* Vol. 161. 25-33.
- Thitilertdecha, N., A. Teerawutgulrag, J. D. Kilburn and N. Rakariyatham. (2010). **Identification of Major Phenolic Compounds from Nephelium lappaceum L. And Their Antioxidant Activities.** *Journal of Molecul.* Vol. 15. 1453–1465.
- Valgas, C., S.M. De Souza, E.F.A. Smania and A.S. Jr. (2007). **Screening Methods to Determine Antibacterial Activity of Natural Products.** *Braz. J. Microbiol.* Vol. 38. 369-380.
- Wahyudi, T. dan S. Rismayani. (2008). **Aplikasi Nanoteknologi pada Bidang Tekstil.** *Arena Tekstil.* Vol. 23. No. 2. 52-109.
- Wahyudi, Tatang, D. Sugiyana dan Q. Helmy. (2011). **Sintesis Nanopartikel Perak dan Uji Aktivasnya terhadap Bakteri E. Coli dan S. Aureus.** *Jurnal Arena Tekstil.* Vol. 26. No. 1. 55-60.

- Xie, Y., R. Ye and L. Honglai. (2006). **Synthesis of Silver Nanoparticle in Reverse Micelles Stabilized by Natural Biosurfactant.** *Colloids and Surface.* **Vol. 279.** 175-178.
- Xiu, Zong-ming, Q.B. Zhang, H. L. Puppala, V. L. Colvin, and P. J. J. Alvarez. (2016). **Negligible Particle-Specific Antibacterial Activity of Silver Nanoparticles.** *Nano Letters.* **Vol. 12.** 4271–4275.
- Yang, C. M., Cheng, H. Y., Lin, T.C., Chiang, L. C., and Lin, C. C. (2007). **Hippomanin A from Acetone Extract of *Phyllanthus urinaria* Inhibited HSV-2 but not HSV-1 Infection in Vitro.** *Journal of Phytherapy Research.* **Vol. 21.** 1182-1186.
- Zakir, M., Maming, Lembang, E. Y. Lembang, dan M. S. Lembang. (2014). **Syntesis of Silver and Gold Nanoparticles through Reduction Method using Boreductor of Leaf of Ketapang (*Terminalia catappa*).** Makassar: Universitas Hasanuddin.