

## DAFTAR PUSTAKA

- Admin. 2002. *Zat-zat Antibakteri*. <http://viozaax.wordpress.com/2002/04/19/zat-zat-antibakteri/>. Diakses tanggal 17 Maret 2014
- Ahmad, S. 2003. *Antibiotics*. Homœopathy and Adverse Reactions of Allopathic Drugs : London
- Anonim. 1980. *Materia Medika Indonesia Jilid IV*. Departemen Kesehatan Republik Indonesia : Jakarta
- Barrett, S. 2005. *Colloidal Silver: Risk Without Benefit*. <http://www.quackwatch.com/cgi-bin/forward.cgi>. Diakses 12 Maret 2014
- Brenner, D.J.; N.R. Krieg and J.T. Staley. 2009. *Bergey's Manual of Systematic Bacteriology Second Edition*. Springer
- Broken, L. 2006. *Mekanisme Kerja Penghambatan Senyawa Antimikroba*. <http://lordbroken.files.wordpress.com/2010/06/gambar14>. Diakses 13 Agustus 2010
- Campbell, N.A.; J.B. Reece and L.G. Mitchell. 2002. *Biologi Jilid I Edisi Kelima*. Erlangga : Jakarta
- Crabtree, J.H.; R.J. Burchette; R.A. Siddiqi; I.T. Huen; L.L. Hadnott and A. Fishman. 2003. The Efficacy of Silver-ion Implanted Catherers in Reducing Peritoneal Dialysis-Related Infections. *Peritoneal Dialysis International*. Vol. 23 pp 368-374
- Dana, S. 2008. *Antibiotika*. <http://sridana.wordpress.com>. Diakses tanggal 17 Maret 2014
- Deepak, V.; K. Kalishwaralal; S.R.K. Pandian and S. Gurunathan. 2011. An Insight Into the Bacterial Biogenesis of Silver Nanoparticle, Industrial Production and Scale-up. *Metal Nanoparticles in Microbiology*
- Durón, N.; P.D. Marcato; G.I.H. De Souza; O.L. Alves and E. Esposito. 2007. Antibacterial Effect of Silver Nanoparticle Produced by Fungal Process on Textile Fabric and Their Effluent Treatment. *Journal of Biomedical nanotechnology*. Vol. 3, 203-208
- Dwidjoseputro, D. 1998. *Dasar-dasar Mikrobiologi*. Djambatan : Jakarta
- Feng, Q.L.; J. Wu; G.Q. Chen; F.Z. Cui; T.N. Kim and J.O. Kim. 2000. A Mechanistic Study of the Antibacterial Effect of Silver Ions on *Escherichia coli* and *Staphylococcus aureus*. *Journal Biomed Mater Res*. 52:662-668

- Ganiswara, G.S. 1995. *Farmakologi dan Terapan Edisi IV*. Bagian Farmakologi Fakultas Kedokteran Universitas Indonesia. Gaya Baru : Jakarta
- Gavanji, S. 2013. The Effect of Silver Nano Particles on Microorganism: A review. *Applied Science Report*. 1 (2): 50-56
- Giyatmi; Z. Kamal dan D. Melati. 2008. penurunan Kadar Cu, Cr dan Ag dalam Limbah Cair Industri Perak di Kotagede setelah Diadsorpsi dengan Tanah Liat dari Daerah Godean. *Seminar Nasional IV SDM Teknologi Nuklir Yogyakarta*. ISSN 1978-0176
- Guzmán M.G; J. Dille and S. Godet. 2009. Synthesis of Silver Nanoparticles by Chemical Reduction Method and Their Antibacterial Activity. *International Journal of Chemical and Biological Engineering* 2:3
- Haryono, A.; S.B. Harmami dan D. Sondari. 2008. The Synthesis of Silver Nanoparticles Produced by Chemical Reduction of Silver Salt Solution. *Indonesian Journal of Material Science*. Hal. 233-236
- Haryono, A. dan S.R. Harmami. 2010. Aplikasi Nanopartikel Perak pada Serat Katun sebagai Produk Jadi Tekstil Antimikrobia. *Jurnal Kimia Indonesia*. Vol. 5 (1), 1-6
- Hidayanti, A.K. 2014. Karakterisasi Molekular Isolat Bakteri yang Resisten terhadap Tembaga (Cu) dan Perak (Ag) dari Limbah Kerajinan Perak Kota Gede Yogyakarta. *Skripsi*. Program Pascasarjana Fakultas Biologi Universitas Gadjah Mada : Yogyakarta
- Holt, J.G. 1994. *Bergey's Manual of Determinative Bacteriology Ninth Edition*. Springer Dordrecht Heidelberg London : New York
- Indriati, N. 2012. Imobilisasi Nano Au pada Zeolit Alam serta Modifikasinya dengan Asam 11-Merkapto Undekanoat dan L-Sistein untuk Adsorpsi Ion Logam Berat. *Skripsi*. Prodi Kimia Fakultas MIPA Universitas Indonesia : Jakarta
- Irianto, K. 2006. *Mikrobiologi Menguk Dunia Mikroorganisme Jilid 1*. Yrama Widya : Bandung
- Istiyono, E. R.Y.A. Sari dan B.S. Adi. 2008. Pengelolaan Limbah Industri Penyepuhan Logam Perak (Elektroplating) di Lingkungan Pengrajin Perak Kecamatan Kotagede. *Inotek*. Agustus Vol. 12 No. 2
- Jawetz, E.; Melnick and Adelberg. 1984. *Mikrobiologi untuk Profesi kesehatan Edisi ke-16*. Penerbit Buku kedokteran : Jakarta

- Jeevan, P.; K. Ramya and A.E. Rena. 2012. Extracellular Biosynthesis of Silver Nanoparticles by Culture Supernatant of *Pseudomonas aeruginosa*. *Indian Journal of Biotechnology*. January Vol. 11 pp 71-76
- Keputusan Gubernur Kepala Daerah Istimewa Yogyakarta No. 281/KPTS/1998 tentang Baku Mutu Limbah Cair Kegiatan Industri di Propinsi DIY
- Kheybari, S.; N. Samadi; S.V. Hosseini; A. Fazeli and M.R. Fazeli. 2010. Synthesis and Antimicrobial Effects of Silver Nanoparticles Produced by Chemical Reduction Method. *Daru*. Vol. 18 No. 3
- Kim, J.S.; E. Kuk; K.N. Yu; J.H. Kim; S.J. Park; H.J. Lee; S.H. Kim; Y.K. Park; Y.H. Park; C.Y. Hwang; Y.K. Kim; Y.S. Lee; D.H. Jeong and M.H. Cho. 2007. Antimicrobial Effects of Silver Nanoparticles. *Nanomedicine: Nanotechnology, Biology and Medicine*. Vol. 3, 95-101.
- Korbekandi, H. and S. Iravani. 2012. Silver Nanoparticle. Nanotechnology and Nanomaterials, The Delivery of Nanoparticle. Dr. Abbass Hashim (Ed). *Intech* DOI: 10.5772/34157
- Lynch, J.M. and J.E. Hobbie. 1979. *Micro-organisms in Action: Concepts and Applications in Microbial Ecology*. Blackwell Scientific Publications Oxford London
- Madigan, M. T.; J. M. Martinko; D. A. Stahl and D. P. Clark. 2012. *Brock Biology of Microorganisms Global Edition Thirteenth Edition*. Pearson Education, Inc. : San Francisco
- Mohsin, Y. 2006. *Perak*. <https://ml.scribd.com/doc/238825137/Perak-Nitrat>. Diakses 25 Juli 2015.
- Mose, Y. 2014. *Penerapan Metode Pembelajaran Predict-Observe-Explain (POE) pada Materi Koloid untuk Meningkatkan Keterampilan Berpikir Kritis dan Keterampilan Proses Sains Siswa*. Universitas Pendidikan Indonesia : Bandung
- Nair, P.P. and T. Panda. 2012. Kinetics of Biosynthesis of Silver Nanoparticle Using *Fusarium oxysporum*. *Current Trends in Technology and Science*. July Vol. 1 Issue 1
- Pelczar, M.J.Jr and E.C.S. Chan. 1986. *Dasar-dasar Mikrobiologi*. UI Press : Jakarta
- Rai, R. and J. Bai. 2011. Nanoparticle and Their Potential Application as Antimicrobials. *Science Against Microbial Pathogen: Communicating Current Research and Technological Advances*
- Rifai, Mien A. 2004. *Kamus Biologi*. Balai Pustaka : Jakarta

- Saputra, A.H.; J.A. Laksmono dan A. Haryono. 2010. Preparasi Koloid Nanosilver menggunakan Stabilizer Polivinil Alkohol dan Aplikasinya sebagai Antibakteri pada Bakteri *S. aureus* dan *E. coli*. *Laporan Penelitian*. Fakultas Teknik Universitas Indonesia : Jakarta
- Saputra, A.H.; A. Haryono; J.A. Laksmono dan M.H. Anshari. 2011. Preparasi Koloid Nanosilver dengan Berbagai Jenis Reduktor sebagai Bahan Antibakteri. *Jurnal Sains Materi Indonesia*. Juni Vol. 12 No. 3, 202-208, ISSN 1411-1098
- Shahverdi, A.R.; A. Fakhimi; H.R. Shahverdi and S. Minaian. 2007. Synthesis and Effect of Silver Nanoparticles on the Antibacterial Activity of Different Antibiotics Against *Staphylococcus aureus* and *Escherichia coli*. *Nanomedicine*. June Vol. 3 (2), 168-71
- Shin, U.S.; H.K. Hong; H.W. Kim and M.S. Gong. 2011. Preparation of Silver Nanoparticles in Ultrasonic Vibration-Induced Nanodroplets of Isopropyl alcohol in Combination with Ionic Liquids. *Bull. Korean Chem. Sos.* Vol. 32 No. 5
- Shrivastava, S.; T. Bera; A. Roy; G. Singh; P. Ramachandrarao and D. Dash. 2007. Characterization of Enhanced Antibacterial Effects of Novel Silver Nanoparticle. *Nanotechnology*. 18 (9pp)
- Soetarto, E.S.; L. Sembiring; Sumarno; K.H. Ardhiani; H. Agus dan L. Susanti. 2012. *Limbah Industri Perak Kotagede Yogyakarta sebagai Sumber Bakteri Pengguna Logam Berat untuk Bioremediasi Lingkungan Tercemar Logam*. Laporan Penelitian Mikrobiologi Fakultas Biologi Universitas Gadjah Mada : Yogyakarta
- Soetarto, E.S. 1989. *Penanganan Limbah secara Hayati*. PAU Bioteknologi Universitas Gadjah Mada : Yogyakarta
- Vidyasagar, G.M.; B. Shankaravva; R. Begum; Imrose; R. Sagar and R.L. Raibagkar. 2012. Antimicrobia Activity of Silver Nanoparticles Synthesized by *Streptomyces* Spesies JF714876. *International Journal of Pharmaceutical Sciences and Nanotechnology*. April-June Vol. 5. Issue 1
- Waluyo, Lud. 2008. *Teknik dan Metode Dasar dalam Mikrobiologi*. UMM Press : Malang
- Yoon, K.Y.; J.H. Byeon; J.H. Park and J. Hwang. 2007. Susceptibility Constants of *Escherichia coli* and *Bacillus subtilis* to Silver and Copper Nanoparticles. *Science of the Total Environment*. Vol. 373, 572-575