

DAFTAR PUSTAKA

30. Honary S, Zahir F. Effect of Zeta Potential on the Properties of Nano-Drug Delivery Systems - A Review (Part 1). Trop J Pharm Res [Internet]. 2013 May 9 [cited 2016 Nov 16];12(2).
- Aadil KR, Barapatre A, Meena AS, Jha H (2016) Hydrogen peroxide sensing and cytotoxicity activity of Acacia lignin stabilized silver nanoparticles. Int J Biol Macromol 82:39–47.
- Abdullah, M., Pengantar Nanosains, ITB, Bandung, 2009.
- Abdullah, M., Virgius, Yudistira, Nirmin dan Khairurrijal. 2008. *Sintesis Nanomaterial*. Jurnal Nanosains dan Nanoteknologi Vol. I: 33 – 57.
- Ahmad N., Sharma S., Alam M.K., Singh V.N., Shamsi S.F., Mehta B.R., Fatma A. Colloids Surf. B. Biointerfaces. 2010; 81:81–86.
- Akbari B, Tavandashti MP, Zandrahimi M. Particle Size Characterization of Nanoparticles–A Practical approach. Iran J Mater Sci Eng. 2011;8(2):48–56.
- Anonim. Zetasizer Nano ZS Training Course. UK: Malvern; 2010. 1-120 p. 29. Akbari B, Tavandashti MP, Zandrahimi M. Particle Size Characterization of Nanoparticles–A Practical approach. Iran J Mater Sci Eng. 2011;8(2):48–56.
- Bakir. 2011. *Pengembangan Biosintesis Partikel-nano Perak Menggunakan Air Rebusan Daun Bisbul (Diospyros blancoi) untuk Deteksi Ion Tembaga (II) dengan Metode Kolorimetri*. [Skripsi]. Depok: Universitas Indonesia. Chaverri JP. 2008. Medicinal
- C. R. Vestal dan Z. J. Chang. 2004. Magnetic Spinel Ferrite Nanoparticles from Microemulsions. Int. J. Nanobiotechnology. Vol 1. Nos 1 /2
- Carillo-Lopez, L. M., dkk., 2014, Biosynthesis of Silver Nanoparticles Using *Chenopodium ambrosioides*, *J. Nanomater*.
- Choudhary MK, Kataria J, Cameotra SS, Singh J (2016) A facile biomimetic preparation of highly stabilized silver nanoparticles derived from seed extract of

- Vigna radiata and evaluation of their antibacterial activity. *Appl Nanosci* 6:105–111.
- Cita, Meitria., 2017. Preparasi dan Karakterisasi Nanopartikel Isolat Andrografolida dengan Variasi Perbandingan PVA (Polyvinyl Alcohol). Skripsi, Yogyakarta: Universitas Islam Indonesia
- Cruz, D., dkk., 2012, Metallic nanoparticles and surface plasmons: a deep relationship, *Avances n Ciencias e Ingenieria*, 3(2):67-78.
- DH Napper, G Lichti, RG Gilbert, 1983. The mechanisms of latex particle formation and growth in the emulsion polymerization of styrene using the surfactant sodium dodecyl sulfate *Journal of Polymer Science: Polymer Chemistry Edition* 21 (1), 269-291
- Dhamecha D, Jalalpure S, JadhavK(2016) Nepenthes khasiana mediated synthesis of stabilized gold nanoparticles: characterization and biocompatibility studies. *J Photochem Photobiol B* 154:108–117.
- Dhanani T, Shah S, Gajbhiye NA, Kumar S (2013) Effect of extraction methods on yield, phytochemical constituents and antioxidant activity of *Withania somnifera*. *Arab J Chem*.
- Geoprincy G, BN Vidhya S, U Poonguzhali N, Nagendra G, dan S. Renganathan. 2012. A Review on Green Synthesis of Silver Nanoparticles. *Asian Journal of Pharamaceutical and Clinical Research* Volume 6, Supply 1, 2013
- Ghaffari-Moghaddam M, Hadi-Dabanlou R (2014) Plant mediated green synthesis and antibacterial activity of silver nanoparticles using *Crataegus douglasii* fruit extract. *J Ind Eng Chem* 20:739–744.
- Glusker J., Katz A., Bock C., Rigaku J. 1999;16(2):8–16.
- Govindarajan M, Rajeswary M, Veerakumar K, Muthukumaran U, Hoti SL, Benelli G (2016) Green synthesis and characterization of silver nanoparticles fabricated using *Anisomeles indica*: mosquitocidal potential against malaria, dengue and Japanese encephalitis vectors. *Exp Parasitol* 161:40–47.

- Hall TJ, Adaptation and Agronomy of *Clitoria ternatea* L. in Northern Australia, Tropical Grasslands, 1985, 19(4), 156-163.
- Hall TJ, Adaptation and Agronomy of *Clitoria ternatea* L. in Northern Australia, Tropical Grasslands, 1985, 19(4), 156-163.
- Haryono A., Dewi S., Harmami S.B. dan RandyM. 2008. Sintesa Nanopartikel Perak dan Potensi Aplikasinya. *Jurnal Riset Industri*. 2 (3): 156-163.
- Haryono, A., Dewi, S., Harmami, S.B., dan Muhammad, R. 2008. Sintesa Nanopartikel Perak dan Potensi Aplikasinya. *Jurnal Riset Industri*. Vol. 2
- Hasan, M. I., 2012, Modifikasi Nanopartikel Perak Dengan Polivinil Alkohol Untuk Meningkatkan Selektivitas Dan Stabilitas Indikator Logam Tembaga (Cu): Uji Coba Pada Mikroalga Merah (*Kappaphycus alvarezzi*), Skripsi, Program Studi Farmasi FMIPA, Universitas Indonesia.
- Honda T, Saito N, Kusano T, Ishsone H, Funayama N, Kubota T, Araogi S, Isolation of anthocyanins (Ternatin A1, A2, B1, B2, D1 and D2) from *Clitoria ternatea* cv. (double blue) having blood platelet aggregation-inhibiting and vascular smooth muscle relaxing activities, JapanKokai Tokyo Koha, 1991, 7.
- Huang, J., dkk., 2007, Biosynthesis Of Silver And Gold Nanoparticles By Novel Sundried *Cinnamomum camphora* Leaf, *Nanotech*. 18(10).
- Jeane M., Maming P., Sintesis Nanopartikel Perak Dengan Metode Reduksi Menggunakan Buah Merah (*Pandanus Conoideus*) Sebagai Bioreduktor. Jurusan Kimia, FMIPA, Universitas Hasanuddin.
- Jha, A.K., Prasad, K., Kumar, V., Prasad, K., 2009. Biosynthesis of silver nanoparticles using *Eclipta* leaf. *Biotechnol. Prog.* 25, 1475–1477.
- Jones, D.S., 2010. Statistik Farmasi. Penerbit Buku Kedokteran EGC, Jakarta.
- Khalil, Munawar. 2015. Preparasi Sampel Nanopartikel Koloid Untuk Karakterisasi dengan Menggunakan TEM. Depok: Universitas Indonesia
- Khan, M.Z.H., Tareq, F.K., Hossen, M.A., 2018. Green Synthesis and Characterization Of Silver Nanoparticles Using *Coriandrum sativum* Leaf Extract 13, 9.

- Kopeliovich D. 2013. *Stabilization of colloids*.
www.substech.com/dokuwiki/doku.php?id=stabilization_of_colloids&DokuWiki=da35aeb9ca4189bce21697c8772a48a3. Diakses pada 20 November 2019
- Krithiga N, Rajalakshmi A, Jayachitra A (2015) Green synthesis of silver nanoparticles using leaf extracts of *Clitoria ternatea* and *Solanum nigrum* and study of its antibacterial effect against common nosocomial pathogens. *J Nanosci*.
- Krithiga N, Rajalakshmi A, Jayachitra A, 2015, Green synthesis of silver nanoparticles using leaf extracts of *Clitoria ternatea* and *Solanum nigrum* and study of its antibacterial effect against common nosocomial pathogens. *J Nanosci*.
- Kumar B, Smita K, Cumbal L, Debut A, (2015), Green synthesis of silver nanoparticles using Andean blackberry fruit extract. *Saudi J Biol Sci*.
- Kumar, V., Yadav, S.K., 2009. Plant-mediated synthesis of silver and gold nanoparticles and their applications. *J. Chem. Technol. Biot.*84, 151–157.
- Martien R, Adhyatmika ID, Farida V, Sari DP. Perkembangan Teknologi Nanopartikel Sebagai Sistem Penghantaran Obat.
- Mata R, Nakkala JR, Sadras SR (2016) Polyphenol stabilized colloidal gold nanoparticles from *Abutilon indicum* leaf extract induces apoptosis in HT-29 colon cancer cells. *Colloids Surf B Biointerfaces* 143:499–510.
- Mittal AK, Chisti Y, Banerjee UC (2013) Synthesis of metallic nanoparticles using plant extracts. *Biotechnol Adv* 31:346–356.
- Mohammadi S, Pourseyedi S, Amini A (2016) Green synthesis of silver nanoparticles with a long lasting stability using colloidal solution of cowpea seeds (*Vigna sp. L*). *J Environ Chem Eng* 4(2):2023–2032.
- Mukherjee P, Ahmed A, Mandal D, Senapati S, Sainkar SR, Khan MI, Parishcha R, Ajaykumar PV, Alam M, Kumar R, Sastry M (2001) Fungus-mediated synthesis of silver nanoparticles and their immobilization in the mycelia matrix: a novel biological approach to nanoparticle synthesis. *Nano Lett* 1:515–519
- Mukherjee PK, Kumar V, Mal M, Houghton PJ, Acetylcholinesterase inhibitors from plants, *Phytomedicine*, 2007, 14(4), 289-300.

- Nafee N, Taetz S, Schneider M, Schaefer UF, Lehr C-M. Chitosan-coated PLGA nanoparticles for DNA/RNA delivery: effect of the formulation parameters on complexation and transfection of antisense oligonucleotides. *Nanomedicine Nanotechnol Biol Med*. 2007 Sep;3(3):173–83.
- Nagavarma BVN, Yadav HK, Ayaz A, Vasudha LS, Shivakumar HG. Different techniques for preparation of polymeric nanoparticles—a review. *Asian J Pharm Clin Res*. 2012;5(3):16–23.
- Nalawati, A.N. 2015. Sintesis Nanopartikel Perak (NPAg) dengan Metode yang Ramah Lingkungan dan Kajian Aktifitasnya dalam Menghambat Pertumbuhan Bakteri Gram Positif dan Bakteri Gram Negatif. Tesis Magister, tidak diterbitkan, Institut Pertanian Bogor, Bogor.
- Nanocomposix.com. 2014. Silver Nanoparticles: Physical Properties. [nanocomposix.com /kb/silver/physicalproperties](http://nanocomposix.com/kb/silver/physicalproperties). Diakses tanggal 18 Desember 2019.
- P. Manjula, Ch. Mohan, D. Sreekanth, B. Keerthi And B. Prathibha Devi, *Phytochemical Analysis Of Clitoria Ternatea Linn., A Valuable Medicinal Plant*. *J. Indian bot. Soc.* 2013. Vol. 92 (3&4) 2013 : 173-178
- Philip, D., 2010, Green Synthesis of Gold and Silver Nanoparticles Using Hibiscus rosasinensis, *Physica E*. 42(5): 1417-1424.
- Ragupathy S, Newmaster SG, Valorizing the ‘Iruilas’ traditional knowledge of medicinal plants in the Kodiakkarai Reserve Forest, India, 2009, *Journal of Ethnobiology and Ethnomedicine*, 5, 10.
- Rai M., Yadav A.. *IET Nanobiotechnol*. 2013;7(3):117–124.
- Rizchi A., Astuti M,. 2018. Pengaruh Stabilisator Terhadap Ukuran, Morfologi, dan Fotoluminesensi Nanopartikel Seng Oksida yang Disintesis dengan Metode Sol-Gel. *Jurnal Fisika Unand* Vol. 7, No. 1, ISSN 2302-8491
- S. S. Shankar, A. Ahmad, R. Pasricha, and M. Sastry, “Bioreduction of chloroaurate ions by geranium leaves and its endophytic fungus yields gold nanoparticles of

- different shapes,” *Journal of Materials Chemistry*, vol. 13, no. 7, pp. 1822–1826, 2003.
- Sathishkumar, M., Sneha, K., Won, S.W., Cho, C.W., Kim, S., Yun, Y.S., 2009. *Cinnamon zeylanicum* bark extract and powder mediated green synthesis of nano-crystalline silver particles and its bactericidal activity. *Colloid Surf. B* 73, 332–338.
- Shah M, Fawcett D, Sharma S, Tripathy SK, Poinern GEJ (2015) Green synthesis of metallic nanoparticles via biological entities. *Materials* 8:7278–7308.
- Shi J. 2002. *Steric Stabilization*. USA: The Ohio State University.
- Si S., Mandal T.K.. *Chemistry*. 2007;13(11):3160–3168.
- Singh, S., Saikia, J.P., Buragohain, A.K., 2013. A novel ‘green’ synthesis of colloidal silver nanoparticles (SNP) using *Dillenia indica* fruit extract. *Colloid Surf. B* 102, 83–85.
- Solomon, S.D., M. Bahadory, A.V. Jeyarajasingam, S.A Rutkowsky, C. Boritz. 2007. Synthesis and Study of Silver Nanoparticles. *Journal of Chemical Education*, 84(2): 322-325
- Sudhakar C, Selvam K, Govarthanam M, Senthilkumar B, Sengottaiyan A, StalinM, Selvankumar T (2015) *Acorus calamus* rhizome extract mediated biosynthesis of silver nanoparticles and their bactericidal activity against human pathogens. *J Genet Eng Biotechnol* 13:93–99.
- Terahara N, Five new anthocyanins, ternatins A3, B4, B3, B2 and D2 from *Clitoria ternatea* Flowers, 1996, *Journal of Natural Products*, 59(2), 139-144.
- Tripathy, A., Raichur, A.M., Chandrasekaran, N., Prathna, T.C., Mukherjee, A., 2010. Process variables in biomimetic synthesis of silver nanoparticles by aqueous extract of *Azadirachta indica* (Neem) leaves. *J. Nanopart. Res.* 12, 237–246.
- Trusheva B, Trunkova D, Bankova V (2007) Different extraction methods of Biologically active components from propolis: a preliminary study. *Chem Cent. J* 13.

- Tshabalala, M.A., Dejene, B.F. dan Swart, H.C., 2012, Synthesis and Characterization of ZnO Nanoparticles Using Polyethylene Glycol (PEG), *Physica B: Condensed Matter Journal*. 10, 1668-1671.
- Vongsak B, Sithisarn P, Mangmool S, Thongpraditchote S, Wongkrajang Y, et al. (2013) *Maximizing total phenolics, total flavonoids contents and antioxidant activity of Moringa oleifera leaf extract by the appropriate extraction method*.Ind. Crops Prod 44: 566-571.
- Wulandari, D., 2019. Optimasi dan Karakterisasi Nanopartikel Perak dari Ekstrak Air Bunga Telang. Skripsi, Yogyakarta: Universitas Islam Indonesia.
- Yang N, Li W-H (2013). *Mango peel extract mediated novel route for synthesis of silver nanoparticles and antibacterial application of silver nanoparticles loaded onto non-woven fabrics*. Ind Crop Prod 48:81–88