

DAFTAR PUSTAKA

1. Astuti T, Parenta T, Paddu H. Pencemaran Lingkungan Di Sulawesi Selatan The Role Of Manufacturing Industrial Activity Alamat Korespondensi: Tri Astuti Ekonomi Pembangunan dan Perencanaan Universitas Hasanuddin. :1-13.
2. Nindita V, Purwanto, Sutrisnanto D. Evaluasi Implementasi di Salah Satu Usaha Kecil Menengah Batik di Kabupaten Pekalongan. *J Ris Teknol Pencegah Pencemaran Ind.* 2012;2(2):82-91.
3. Indana MK, Gangapuram BR, Dadigala R, Bandi R. A novel green synthesis and characterization of silver nanoparticles using gum tragacanth and evaluation of their potential catalytic reduction activities with methylene blue and Congo red dyes. *J Anal Sci Technol.* Published online 2016:1-9. doi:10.1186/s40543-016-0098-1
4. Matin TAB, Ghasemi N, Ghodrati K, Ramezani M. Synthesis and characterization of silver nanoparticles using *Thymbra spicata* L . herbal extract for removing methylene blue dye from aqueous solutions. 2018;50(L):345-358.
5. Hariani PL, Fatma F, Riyanti F, Ratnasari H. Adsorption Of Phenol Pollutants From Aqueous Solution Using Ca-Bentonite/Chitosan Composite. *J Mns dan Lingkungan.* 2015;22(2):233. doi:10.22146/jml.18747
6. Raja S, Ramesh V, Thivaharan V. Green biosynthesis of silver nanoparticles using *Calliandra haematocephala* leaf extract, their antibacterial activity and hydrogen peroxide sensing capability. *Arab J Chem.* 2017;10(2):253-261. doi:10.1016/j.arabjc.2015.06.023
7. Zargar M, Shameli K, Najafi GR, Farahani F. Plant mediated green biosynthesis of silver nanoparticles using *Vitex negundo* L. extract. *J Ind Eng Chem.* 2014;20(6):4169-4175. doi:10.1016/j.jiec.2014.01.016
8. Lin M, Zhang J, Chen X. Bioactive flavonoids in *Moringa oleifera* and their health-promoting properties. *J Funct Foods.* 2018;47(August):469-479. doi:10.1016/j.jff.2018.06.011
9. Prasetiowati AL, Prasetya AT, Wardani S. Sintesis Nanopartikel Perak dengan

Bioreduktor Ekstrak Daun Belimbing Wuluh (*Averrhoa Bilimbi L.*) sebagai Antibakteri. *Indones J Chem Sci.* 2018;7(2):160-166.

10. Fajarwati FI, Sugiharto E, Siswanta D, Indonesia UI, Mada UG. Film of Chitisan-carboxymethyl Cellulose Polyelectrolyte Complex as Metthylene Blue Adsorbent. *Eksakta J Ilmu-ilmu MIPA.* Published online 2011:36-45.
11. Arief syukri; GWZ. Universitas Andalas. *J Kim unand.* 2018;7(2303):38-43.
12. Jannah A. Aktivitas Antibakteri Sintesis Nanopartikel Perak (Ag-Np) Dan Gel Nanopartikel Perak (Ag-Np) Terhadap Bakteri Staphylococcus Aureus Aktivitas Antibakteri Sintesis Nanopartikel Perak (Ag-Np) Dan Gel Nanopartikel Perak (Ag-Np) Terhadap Bakteri Staph. *Skripsi Univ Islam Negeri Maulana Malik Ibrahim.* 2019;(farmasi).
13. Arya G, Sharma N, Ahmed J, et al. Degradation of anthropogenic pollutant and organic dyes by biosynthesized silver nano-catalyst from Cicer arietinum leaves. *J Photochem Photobiol B Biol.* 2017;174(April):90-96. doi:10.1016/j.jphotobiol.2017.07.019
14. Sulistiawaty L, Sugiarti S, Darmawan N. Detection of Hg²⁺ metal ions using silver nanoparticles stabilized by gelatin and tween-20. *Indones J Chem.* 2015;15(1):1-8. doi:10.22146/ijc.21216
15. Khodashenas B, Ghorbani HR. Synthesis of silver nanoparticles with different shapes. *Arab J Chem.* Published online 2019. doi:10.1016/j.arabjc.2014.12.014
16. Imanina Nola. Penggunaan Ekstrak Daun Jambu Biji Merah Sebagai Reduktor Alami Dalam Green Hidrotermal Sintesis Nanopartikel Emas. Published online 2019.
17. Agustina A, Munawarah M, Lumi SA, Nur S. Green Synthesis Nanopartikel Perak (Agnps) Terkonjugasi Etil Parametoksi Sinamat (Epms) sebagai Bahan Tabir Surya. *J Farm Galen (Galenika J Pharmacy).* 2018;4(2):98-105. doi:10.22487/j24428744.2018.v4.i2.10440
18. Ahmed S, Ahmad M, Swami BL, Ikram S. A review on plants extract mediated synthesis of silver nanoparticles for antimicrobial applications: A green expertise. *J Adv Res.* 2016;7(1):17-28. doi:10.1016/j.jare.2015.02.007

19. Srikar SK, Giri DD, Pal DB, Mishra PK, Upadhyay SN. Green Synthesis of Silver Nanoparticles: A Review. *Green Sustain Chem.* 2016;06(01):34-56. doi:10.4236/gsc.2016.61004
20. Angajala G, Ramya R, Subashini R. In-vitro anti-inflammatory and mosquito larvicidal efficacy of nickel nanoparticles phytofabricated from aqueous leaf extracts of *Aegle marmelos* Correa. *Acta Trop.* 2014;135(1):19-26. doi:10.1016/j.actatropica.2014.03.012
21. SUGIANTO AK. Kandungan Gizi Daun Kelor (*Moringa oleifera*) Berdasarkan Posisi Daun Dan Suhu Penyeduhan. *Skripsi*. Published online 2016:1-23.
22. Yati. Potensi Aktivitas Antioksidan Metabolit Sekunder Dari Bakteri Endofit Pada Daun *Moringa oleifera* L. *J Pendidik dan Ilmu Kim.* 2018;2(1):82-87.
23. Kuppusamy P, Ichwan SJA, Parine NR, Yusoff MM, Maniam GP, Govindan N. Intracellular biosynthesis of Au and Ag nanoparticles using ethanolic extract of *Brassica oleracea* L. and studies on their physicochemical and biological properties. *J Environ Sci (China)*. 2015;29:151-157. doi:10.1016/j.jes.2014.06.050
24. Mittal AK, Chisti Y, Banerjee UC. Synthesis of metallic nanoparticles using plant extracts. *Biotechnol Adv.* 2013;31(2):346-356. doi:10.1016/j.biotechadv.2013.01.003
25. Wu JT, Hsu SLC. Preparation of triethylamine stabilized silver nanoparticles for low-temperature sintering. *J Nanoparticle Res.* 2011;13(9):3877-3883. doi:10.1007/s11051-011-0341-z
26. Ajitha B, Kumar Reddy YA, Reddy PS, Jeon HJ, Ahn CW. Role of capping agents in controlling silver nanoparticles size, antibacterial activity and potential application as optical hydrogen peroxide sensor. *RSC Adv.* 2016;6(42):36171-36179. doi:10.1039/c6ra03766f
27. Shameli K, Ahmad MB, Jazayeri SD, et al. Investigation of antibacterial properties silver nanoparticles prepared via green method. *Chem Cent J.* 2012;6(1):1-10. doi:10.1186/1752-153X-6-73
28. Purnamasari MD, Wijayati N. Sintesis Antibakteri Nanopartikel Perak

Menggunakan Bioreduktor Ekstrak Daun Sirih Dengan Irradiasi Microwave. *Indones J Chem Sci.* 2016;5(2):153-158.

29. Yamamoto M, Kashiwagi Y, Nakamoto M. Size-controlled synthesis of monodispersed silver nanoparticles capped by long-chain alkyl carboxylates from silver carboxylate and tertiary amine. *Langmuir*. Published online 2006. doi:10.1021/la0600245
30. Labanni A. *Pendekatan Green Synthesis Nanopartikel Perak Dan Komposit Hidroksiapatit-Nanoperak Dengan Bioreduktor Ekstrak Daun Uncaria Gambir Roxb. Serta Aktivitas Antibakterinya.* Vol 23. Scholar Unand; 2019.
31. Yusuf K, Noerochiem L. Pengaruh Variasi Temperatur Hidrotermal pada Spinel terhadap Efisiensi Adsorpsi dan Desorpsi Ion Lithium dari Lumpur Sidoarjo. *Tek POMITS.* 2014;3(2). doi:10.12962/j23373539.v3i2.6615
32. Fabiani VA, Silvia D, Liyana D, Akbar H. Sintesis Nanopartikel Perak Menggunakan Bioreduktor Ekstrak Daun Pucuk Idat (*Cratogeomachra glaucum*) dengan Metode Iradiasi Microwave. *Fuller J Chem.* 2019;4(2):96. doi:10.37033/fjc.v4i2.102
33. Creighton JA, Eadon DG. Ultraviolet-visible absorption spectra of the colloidal metallic elements. *J Chem Soc Faraday Trans.* 1991;87(24):3881-3891. doi:10.1039/FT9918703881
34. Sari Purwo Ismaya, M. Lutfi Firdaus, Elvia Rina. Pembuatan Nanopartikel Perak (Npp) Dengan Bioreduktor Ekstrak Buah Muntingia Calabura L Untuk Analisis Logam Merkuri. *Alotrop.* 2017;1(1):20-26.
35. Irwan R, Zakir M, Budi P. Effect Of AgNO₃ Concentration And Synthesis Temperature On Surface Plasmon Resonance (Spr) Of Silver Nanoparticles. 2016;4(1):356-361.
36. Rahmayani Y, Zulhadjri Z, Arief S. Sintesis dan Karakterisasi Nanopartikel Perak-Tricalcium Phosphate (TCP) dengan Bantuan Ekstrak Daun Alpukat (*Persea americana*). *J Kim Val.* 2019;5(1):72-78. doi:10.15408/jkv.v5i1.8652
37. Moores A, Goettmann F. The plasmon band in noble metal nanoparticles: An introduction to theory and applications. *New J Chem.* 2006;30(8):1121-1132.

doi:10.1039/b604038c

38. Baset S, Akbari H, Zeynali H, Shafie M. Size measurement of metal and semiconductor nanoparticles via UV-Vis absorption spectra. *Dig J Nanomater Biostructures*. 2011;6(2):709-716.
39. Tippayawat P, Phromviyo N, Boueroy P, Chompoosor A. Green synthesis of silver nanoparticles in aloe vera plant extract prepared by a hydrothermal method and their synergistic antibacterial activity. *PeerJ*. 2016;2016(10). doi:10.7717/peerj.2589
40. Ahmed S, Annu, Ikram S, Yudha S. Biosynthesis of gold nanoparticles: A green approach. *J Photochem Photobiol B Biol*. 2016;161:141-153. doi:10.1016/j.jphotobiol.2016.04.034
41. Amari H, Guerrouache M, Mahouche-Chergui S, Abderrahim R, Carbonnier B. In situ synthesis of silver nanoparticles on densely amine-functionalized polystyrene: Highly active nanocomposite catalyst for the reduction of methylene blue. *Polym Adv Technol*. 2019;30(2):320-328. doi:10.1002/pat.4468
42. Sultan M, Javeed A, Uroos M, et al. Linear and crosslinked Polyurethanes based catalysts for reduction of methylene blue. *J Hazard Mater*. 2018;344:210-219. doi:10.1016/j.jhazmat.2017.10.019
43. Tripathi RM, Kumar N, Shrivastav A, Singh P, Shrivastav BR. Catalytic activity of biogenic silver nanoparticles synthesized by Ficus panda leaf extract. *J Mol Catal B Enzym*. 2013;96(July):75-80. doi:10.1016/j.molcatb.2013.06.018
44. Edison TJI, Sethuraman MG. Instant green synthesis of silver nanoparticles using Terminalia chebula fruit extract and evaluation of their catalytic activity on reduction of methylene blue. *Process Biochem*. 2012;47(9):1351-1357. doi:10.1016/j.procbio.2012.04.025
45. Nicolai SH de A, Rodrigues PRP, Agostinho SML, Rubim JC. Electrochemical and spectroelectrochemical (SERS) studies of the reduction of methylene blue on a silver electrode. *J Electroanal Chem*. 2002;527(1-2):103-111. doi:10.1016/S0022-0728(02)00832-X