

## DAFTAR PUSTAKA

- [1] K. Seku, B. R. Gangapuram, B. Pejjai, K. K. Kadimpati, and N. Golla, "Microwave-assisted synthesis of silver nanoparticles and their application in catalytic, antibacterial and antioxidant activities," *J Nanostructure Chem*, vol. 8, no. 2, pp. 179–188, 2018, doi: 10.1007/s40097-018-0264-7.
- [2] K. M. F. Hasan *et al.*, "Functional silver nanoparticles synthesis from sustainable point of view: 2000 to 2023 – A review on game changing materials," *Heliyon*, vol. 8, no. 12, 2022, doi: 10.1016/j.heliyon.2022.e12322.
- [3] S. O. Alayande, A. A. Akinsiku, O. B. Akinsipo (Oyelaja), E. O. Ogunjinmi, and E. O. Dare, *Green synthesized silver nanoparticles and their therapeutic applications*, 1st ed., vol. 94. Elsevier B.V., 2021. doi: 10.1016/bs.coac.2021.01.009.
- [4] I. X. Yin, J. Zhang, I. S. Zhao, M. L. Mei, Q. Li, and C. H. Chu, "The Antibacterial Mechanism of Silver Nanoparticles and Its Application in Dentistry," *International Journal of Nanomedicine*, vol. Volume 15, pp. 2555–2562, Apr. 2020, doi: 10.2147/IJN.S246764.
- [5] S. Ying *et al.*, "Green synthesis of nanoparticles: Current developments and limitations," *Environ Technol Innov*, vol. 26, p. 102336, 2022, doi: 10.1016/j.eti.2022.102336.
- [6] M. Baselga *et al.*, "Silver Nanoparticles–Polyethyleneimine-Based Coatings with Antiviral Activity against SARS-CoV-2: A New Method to Functionalize Filtration Media," *Materials*, vol. 15, no. 14, p. 4742, Jul. 2022, doi: 10.3390/ma15144742.
- [7] R. A. Bakar, I. Ahmad, and S. F. Sulaiman, "Effect of Pithecellobium jiringa as antimicrobial agent," *Bangladesh J Pharmacol*, vol. 7, no. 2, pp. 131–134, 2012, doi: 10.3329/bjp.v7i2.10973.
- [8] M. Y. Musdja, W. Marison, and A. Musir, "Antihyperglycemic Effect and Glucose Tolerance of Ethanol Extract the Rind of Jengkol ( Pithecollobium jiringa Jack ) in Diabetic Rats," no. Icri 2018, pp. 2245–2250, 2020, doi: 10.5220/0009941322452250.
- [9] A. Rusnaenah, I. Wulansari, N. A. Kurniasari, N. Nurjannah, and L. Ifa, "GREEN SYNTHESIS SILVER NANOPARTICLES (AgNPs) MENGGUNAKAN EKSTRAK LIMBAH KULIT ARI Pithecellobium jiringa SEBAGAI BIOREDUKTOR," vol. 28, no. 5, pp. 1–13, 2024, doi: 10.4186/ej.2024.28.5.1.
- [10] E. Revathi, G. Yaku, S. Azeem Unnisa, P. Malyala, and V. Praveen, "Microwave assisted green synthesis of silver nanoparticles from Carica papaya fruit extract: Characterization and detection of Fe<sup>3+</sup> and Hg<sup>2+</sup> ions," *Mater Today Proc*, vol. 92, pp. 490–497, 2023, doi: 10.1016/j.matpr.2023.03.597.
- [11] J. Sukweenadhi, K. I. Setiawan, C. Avanti, K. Kartini, E. J. Rupa, and D. C. Yang, "Scale-up of green synthesis and characterization of silver nanoparticles using

- ethanol extract of *Plantago major* L. leaf and its antibacterial potential,” *S Afr J Chem Eng*, vol. 38, no. April, pp. 1–8, 2021, doi: 10.1016/j.sajce.2021.06.008.
- [12] W. Ahmad, K. K. Jaiswal, A. Bajetha, N. Naresh, R. Verma, and I. Banerjee, “Microwave-irradiated bio-fabrication of TiO<sub>2</sub> nanoparticles stabilized by phytoconstituents from *Phyllanthus emblica* seeds and its antibacterial activities,” *Inorganic and Nano-Metal Chemistry*, 2023, doi: 10.1080/24701556.2023.2184385.
- [13] N. Kaur, A. Singh, and W. Ahmad, “Microwave Assisted Green Synthesis of Silver Nanoparticles and Its Application: A Review,” *Journal of Inorganic and Organometallic Polymers and Materials*, vol. 33, no. 3, pp. 663–672, 2023, doi: 10.1007/s10904-022-02470-2.
- [14] C. T. Pereira da Silva *et al.*, “Synthesis of Zn-BTC metal organic framework assisted by a home microwave oven and their unusual morphologies,” *Mater Lett*, vol. 182, pp. 231–234, Nov. 2016, doi: 10.1016/j.matlet.2016.06.015.
- [15] Z. Chen, “Application of UV-vis spectroscopy in the detection and analysis of substances,” *Transactions on Materials, Biotechnology and Life Sciences*, vol. 3, pp. 131–136, 2024, doi: 10.62051/mw4daz69.
- [16] L. Pan *et al.*, “Characterization of particle size and composition of respirable coal mine dust,” *Minerals*, vol. 11, no. 3, pp. 1–12, 2021, doi: 10.3390/min11030276.
- [17] A. H. Faraji and P. Wipf, “Nanoparticles in cellular drug delivery,” *Bioorganic & Medicinal Chemistry*, vol. 17, no. 8, pp. 2950–2962, Apr. 2009, doi: 10.1016/j.bmc.2009.02.043.
- [18] N. Joudeh and D. Linke, “Nanoparticle classification, physicochemical properties, characterization, and applications: a comprehensive review for biologists,” *Journal of Nanobiotechnology*, vol. 20, no. 1, p. 262, 2022, doi: 10.1186/s12951-022-01477-8.
- [19] A. P. Ingle, *Nanotechnology in Agriculture and Agroecosystems*. Elsevier, 2023. doi: 10.1016/C2021-0-01647-3.
- [20] W. Ahmad, K. K. Jaiswal, A. Bajetha, N. Naresh, R. Verma, and I. Banerjee, “Microwave-irradiated bio-fabrication of TiO<sub>2</sub> nanoparticles stabilized by phytoconstituents from *Phyllanthus emblica* seeds and its antibacterial activities,” *Inorganic and Nano-Metal Chemistry*, 2023, doi: 10.1080/24701556.2023.2184385.
- [21] M. Rai, K. Kon, A. Ingle, N. Duran, S. Galdiero, and M. Galdiero, “Broad-spectrum bioactivities of silver nanoparticles: the emerging trends and future prospects,” *Appl Microbiol Biotechnol*, vol. 98, no. 5, pp. 1951–1961, Mar. 2014, doi: 10.1007/s00253-013-5473-x.
- [22] V. K. Sharma, R. A. Yngard, and Y. Lin, “Silver nanoparticles: Green synthesis and their antimicrobial activities,” *Adv Colloid Interface Sci*, vol. 145, no. 1–2, pp. 83–96, 2009, doi: 10.1016/j.cis.2008.09.002.

- [23] Z. Lu, K. Rong, J. Li, H. Yang, and R. Chen, "Size-dependent antibacterial activities of silver nanoparticles against oral anaerobic pathogenic bacteria," *J Mater Sci Mater Med*, vol. 24, no. 6, pp. 1465–1471, Jun. 2013, doi: 10.1007/s10856-013-4894-5.
- [24] N. Muslim and a. Abdul Majid, "Pithecellobium Jiringa : A Traditional Medicinal Herb Pithecellobium Jiringa : A Traditional Medicinal Herb Pharmacological properties of," vol. 1, no. 12, pp. 1–10, 2010.
- [25] B. Bhardwaj, P. Singh, A. Kumar, S. Kumar, and V. Budhwar, "Eco-Friendly Greener Synthesis of Nanoparticles," *Adv Pharm Bull*, vol. 10, no. 4, pp. 566–576, Aug. 2020, doi: 10.34172/apb.2020.067.
- [26] U. K. Parida, S. Das, P. K. Jena, N. Rout, and B. K. Bindhani, "Plant mediated green synthesis of metallic nanoparticles," in *Fabrication and Self-Assembly of Nanobiomaterials*, Elsevier, 2016, pp. 149–177. doi: 10.1016/B978-0-323-41533-0.00006-4.
- [27] A. Katrick, K. C. Majhi, P. Karfa, and S. Kumar, "Water as the Green Solvent in Organic Synthesis," First., Materiasl Research Foundation, 2019, pp. 182–201. doi: 10.21741/9781644900314-8.
- [28] N. L. Sheeba and S. M. Sundar, "Critical evaluation of silver nanoparticles synthesized at room temperature/microwave irradiation: A green approach," *Next Nanotechnology*, vol. 6, no. May, p. 100083, 2024, doi: 10.1016/j.nxnano.2024.100083.
- [29] M. S. Akhtar, J. Panwar, and Y. S. Yun, "Biogenic synthesis of metallic nanoparticles by plant extracts," *ACS Sustainable Chemistry and Engineering*, vol. 1, no. 6, pp. 591–602, 2013, doi: 10.1021/sc300118u.
- [30] S. Bargujar, S. Ratnani, and R. Jain, "Recent advances in microwave assisted synthesis of Schiff base metal complexes," *Inorg Chem Commun*, vol. 162, p. 112250, Apr. 2024, doi: 10.1016/j.inoche.2024.112250.
- [31] M. M. Eid, "Characterization of Nanoparticles by FTIR and FTIR-Microscopy," in *Handbook of Consumer Nanoproducts*, Singapore: Springer Nature Singapore, 2022, pp. 645–673. doi: 10.1007/978-981-16-8698-6\_89.
- [32] E. Petryayeva and U. J. Krull, "Analytica Chimica Acta Localized surface plasmon resonance : Nanostructures , bioassays and biosensing — A review," *Anal Chim Acta*, vol. 706, no. 1, pp. 8–24, 2011, doi: 10.1016/j.aca.2011.08.020.
- [33] P. Jiang *et al.*, "Hot Electrons Induced by Localized Surface Plasmon Resonance in Ag / g-C 3 N 4 Schottky Junction for Photothermal Catalytic CO 2 Reduction," 2024.
- [34] V. Sharma, D. Verma, and G. S. Okram, "Influence of surfactant, particle size and dispersion medium on surface plasmon resonance of silver nanoparticles," *Journal of Physics: Condensed Matter*, vol. 32, no. 14, p. 145302, Apr. 2020, doi: 10.1088/1361-648X/ab601a.

- [35] H. M. Fahmy *et al.*, "Coated silver nanoparticles: Synthesis, cytotoxicity, and optical properties," *RSC Advances*, vol. 9, no. 35, pp. 20118–20136, 2019, doi: 10.1039/c9ra02907a.
- [36] F. Babick, *Dynamic light scattering (DLS)*. Elsevier Inc., 2019. doi: 10.1016/B978-0-12-814182-3.00010-9.
- [37] J. Rodriguez-Loya, M. Lerma, and J. L. Gardea-Torresdey, "Dynamic Light Scattering and Its Application to Control Nanoparticle Aggregation in Colloidal Systems: A Review," *Micromachines (Basel)*, vol. 15, no. 1, 2024, doi: 10.3390/mi15010024.
- [38] K. Kartini, A. Alviani, D. Anjarwati, A. F. Fanany, J. Sukweenadhi, and C. Avanti, "Process Optimization for Green Synthesis of Silver Nanoparticles Using Indonesian Medicinal Plant Extracts," *Processes*, vol. 8, no. 8, p. 998, Aug. 2020, doi: 10.3390/pr8080998.
- [39] "Silver Nanoparticles: Optical Properties – nanoComposix." Accessed: Aug. 28, 2024. [Online]. Available: <https://nanocomposix.com/pages/silver-nanoparticles-optical-properties>
- [40] P. Rama, P. Mariselvi, R. Sundaram, and K. Muthu, "Eco-friendly green synthesis of silver nanoparticles from Aegle marmelos leaf extract and their antimicrobial, antioxidant, anticancer and photocatalytic degradation activity," *Heliyon*, vol. 9, no. 6, p. e16277, 2023, doi: 10.1016/j.heliyon.2023.e16277.
- [41] A. M. Salazar-Bryam *et al.*, "Silver nanoparticles stabilized by ramnolipids: Effect of pH," *Colloids and Surfaces B: Biointerfaces*, vol. 205, no. April, p. 111883, 2021, doi: 10.1016/j.colsurfb.2021.111883.
- [42] W. W. Melkamu and L. T. Bitew, "Green synthesis of silver nanoparticles using Hagenia abyssinica (Bruce) J.F. Gmel plant leaf extract and their antibacterial and anti-oxidant activities," *Heliyon*, vol. 7, no. 11, p. e08459, 2021, doi: 10.1016/j.heliyon.2021.e08459.
- [43] N. T. K. Thanh, N. Maclean, and S. Mahiddine, "Mechanisms of nucleation and growth of nanoparticles in solution," *Chem Rev*, vol. 114, no. 15, pp. 7610–7630, 2014, doi: 10.1021/cr400544s.
- [44] L. Marciniak, M. Nowak, A. Trojanowska, B. Tylkowski, and R. Jastrzab, "The effect of pH on the size of silver nanoparticles obtained in the reduction reaction with citric and malic acids," *Materials*, vol. 13, no. 23, pp. 1–12, 2020, doi: 10.3390/ma13235444.
- [45] A. Thayalan, M. F. Azman, S. M. A. Musa, Z. Yusoff, and S. A. Ibrahim, "Surface plasmon resonance in gold-silver bilayer coated D-shaped multimode optical fiber: An approach to refractive index sensing," *Results in Optics*, vol. 16, no. April, p. 100680, 2024, doi: 10.1016/j.rso.2024.100680.

- [46] M. Riswan *et al.*, "Effect of electric field on localized surface plasmon resonance properties of Fe<sub>3</sub>O<sub>4</sub>/Ag composite nanoparticles," *Optik (Stuttg)*, vol. 293, p. 171404, Nov. 2023, doi: 10.1016/j.ijleo.2023.171404.
- [47] L. C. Costa, S. S. Teixeira, and F. Henry, "Measuring microwave dielectric properties of materials: Theory and applications," *Mater Res Bull*, vol. 179, p. 112976, Nov. 2024, doi: 10.1016/j.materresbull.2024.112976.
- [48] F. Ozel, H. Kockar, and O. Karaagac, "Growth of Iron Oxide Nanoparticles by Hydrothermal Process: Effect of Reaction Parameters on the Nanoparticle Size," *J Supercond Nov Magn*, vol. 28, no. 3, pp. 823–829, 2015, doi: 10.1007/s10948-014-2707-9.