

DAFTAR PUSTAKA

- Abdullaeva, Z. (2017). *Synthesis of nanoparticles and nanomaterials: Biological approaches*. Springer.
- Adegbola, T. O., Aderibigbe, B. A., & Al-Kinani, A. A. (2020). Nanocrystal-based drug delivery systems: A review. *Journal of Drug Delivery Science and Technology*, 57, 101673.
- Adrianto, N., Panre, A. M., Istiqomah, N. I., Riswan, M., Apriliani, F., & Suharyadi, E. (2022). Localized surface plasmon resonance properties of green synthesized silver nanoparticles. *Nano-Structures and Nano-Objects*, 31.
- Ahamed, M., Akhtar, M. J., Majeed Khan, M. A., & Alhadlaq, H. A. (2021). A novel green preparation of Ag/rGO nanocomposites with highly effective anticancer performance. *Polymers*, 13(19).
- Arifin, M. (2011). Kajian Fenomena Surface Plasmon Resonance (SPR) pada Sistem Logam/Polimer Konduktif sebagai Sensor Gas, *Tesis*, Prgoram Studi Ilmu Fisika FMIPA UGM, Yogyakarta.
- Balbinot, S., Srivastav, A. M., Vidic, J., Abdulhalim, I., & Manzano, M. (2021). Plasmonic biosensors for food control. *Trends in Food Science and Technology*, 111, 128–140.
- Bera, M., Chandravati, Gupta, P., & Maji, P. K. (2018). Facile One-Pot Synthesis of Graphene Oxide by Sonication Assisted Mechanochemical Approach and Its Surface Chemistry. *Journal of Nanoscience and Nanotechnology*, 18(2), 902–912.
- Callister, W. D., & Rethwisch, D. G. (2010). *Materials Science and Engineering: An Introduction (8th ed.)*. John Wiley & Sons.
- Chettri, P., Vendamani, V. S., Tripathi, A., Singh, M. K., Pathak, A. P., & Tiwari, A. (2017). Green synthesis of silver nanoparticle-reduced graphene oxide using Psidium guajava and its application in SERS for the detection of methylene blue. *Applied Surface Science*, 406, 312–318.
- Chou, Kan-Sen & Huang, Kuo-Cheng & Lee, Hsien-Hsuen. (2005). Fabrication and sintering effect on the morphologies and conductivity of nano-Ag particle films by the spin coating method. *Nanotechnology*. 16. 779-784
- Choy, T.C. (1999). *Effective Medium Theory*. Clarendon Press, Oxford.
- Crescenzo, D. G., Boucher, C., Durocher, Y., & Jolicœur, M. (2008). Kinetic characterization by surface plasmon resonance-based biosensors: principle and emerging trends. *Cellular and Molecular Bioengineering*, 1, 204–215.
- Das, P. K., Villegas, J. C., Cohen, S. R., & Zenobi, R. (2012). Tip-enhanced Raman spectroscopy of graphene oxide. *Journal of Raman Spectroscopy*, 43(8), 1050–1054.

- Dinnebier, R., & Scardi, P. (2021). X-ray powder diffraction in education. Part I. Bragg peak profiles. *Journal of Applied Crystallography*, 54, 1811–1831.
- Dreyer, D. R., Park, S., Bielawski, C. W., & Ruoff, R. S. (2010). The chemistry of graphene oxide. *Chemical Society Reviews*, 39(1), 228–240.
- Fox, M. (2010). *Optical Properties of Solids (2nd ed.)*. Oxford University Press.
- Gupta, S., Kumar, R., & Goel, G. (2024). Synergistic photocatalytic and antibacterial efficacies of Ag/rGO and Ag/Ag₂O/rGO nanocomposites: The impact of oxide formation and ternary heterojunction. *Materials Today Communications*, 41.
- Hall, W. P., Ngatia, S. N., & Van Duyne, R. P. (2011). LSPR biosensor signal enhancement using nanoparticle-antibody conjugates. *The Journal of Physical Chemistry C*, 115(5), 1410–1414.
- Homola, J., Yee, S. S., & Gauglitz, G. (1999). Surface plasmon resonance sensors: review. *Sensors and Actuators B: Chemical*, 54(1-2), 3–15.
- Ibrahim, H. M., Zaghloul, S., Hashem, M., & El-Shafei, A. (2021). A green approach to improve the antibacterial properties of cellulose based fabrics using *Moringa oleifera* extract in presence of silver nanoparticles. *Cellulose*, 28(1), 549–564.
- Inkson, B. J. (2016). *Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM) for Materials Characterization*. Materials Characterization Using Nondestructive Evaluation (NDE) Methods.
- Jackson, J. D. (1999). *Classical Electrodynamics (3rd ed.)*. John Wiley & Sons.
- Jayanti, P. D., Zurnansyah, Kusumah, H. P., Mahardhika, L. J., Riswan, M., Wahyuni, S., Adrianto, N., Cuana, R., Istiqomah, N. I., Ali, H., Ali, D., Chotimah, & Suharyadi, E. (2024). Localized surface plasmon resonance properties of green synthesized Ag/rGO composite nanoparticles utilizing *Amaranthus viridis* extract for biosensor applications. *Journal of Science: Advanced Materials and Devices*, 9(3), 100747.
- Juharni, J., Maulana, I., Suharyadi, E., Kato, T., & Iwata, S. (2021). The effect of Ag concentration of core-shell Fe₃O₄@Ag nanoparticles for sensitivity enhancement of Surface Plasmon Resonance (SPR)-based biosensor. *Key Engineering Materials*, 884, 337–341.
- Kretschmann, E., & Raether, H. (1968). *Radiative Decay of Non Radiative Surface Plasmons Excited by Light*. *Zeitschrift für Naturforschung A*, 23(12), 2135–2136.
- Maesaroh, K., Permana, M. D., Eddy, D. R., & Rahayu, I. (2023). The Effect of Different Synthesis with Chemical and Biological Methods on Properties of Silver Oxide Nanoparticles. *Trends in Sciences*, 20(3), 4350.
- Maier, S. A. (2007). *Plasmonics: Fundamentals and Applications*. Springer.

- Marslin, G., Siram, K., Maqbool, Q., Selvakesavan, R. K., Kruszka, D., Kachlicki, P., & Franklin, G. (2018). Secondary metabolites in the green synthesis of metallic nanoparticles. *Materials*, 11(6), 940.
- Novitasari, D. (2022). Surface Plasmon Resonance (Spr) Sensor Simulation with Kretschmann Configuration Based on Chitosan-Graphene Oxide Nanocomposite for Lead Metal Ion Detection. *Sunan Kalijaga of Journal Physics*, 4(1).
- Oates, T. W. H., Wormeester, H., & Arwin, H. (2011). Characterization of plasmonic effects in thin films and metamaterials using spectroscopic ellipsometry. *In Progress in Surface Science* (Vol. 86, Issues 11–12, pp. 328–376).
- Obodo, R. M., Ahmad, I., Ezema, F. I., & Maaza, M. (2019). Graphene oxide/manganese oxide nanocomposite: synthesis, characterization and optical properties. *Applied Physics A*, 125(1), 1–9.
- Oktivina, M., Nurrohman, D. T., Rinto, A. N. Q. Z., Suharyadi, E., & Abraha, K. (2017). Effect of Fe₃O₄ Magnetic Nanoparticle Concentration on the Signal of Surface Plasmon Resonance (SPR) Spectroscopy. *IOP Conference Series: Materials Science and Engineering*, 202, 012032.
- Omar, N. A. S., Fen, Y. W., Abdullah, J., Sadrolhosseini, A. R., Kamil, Y. M., Fauzi, N. I. M., Hashim, H. S., & Mahdi, M. A. (2020). Quantitative and selective surface plasmon resonance response based on a reduced graphene oxide-polyamidoamine nanocomposite for detection of dengue virus E-proteins. *Nanomaterials*, 10(3), 1–14.
- Ow, S. Y., Sutarlie, L., Lim, S. W. Y., Salleh, N. A. B. M., Tanaka, Y., Tan, C. K. I., & Su, X. (2024). Optical biosensors utilising viral receptors ACE2 and ACE2 mimics. *TrAC Trends in Analytical Chemistry*, 117630.
- Paliwal, A., Sharma, A., Tomar, M., & Gupta, V. (2014). Optical properties of WO₃ thin films using surface plasmon resonance technique. *Journal of Applied Physics*, 115(4), 043104.
- Pavia, D. L., Lampman, G. M., Kriz, G. S., & Vyvyan, J. R. (2010). *Introduction to Spectroscopy (4th ed.)*. Brooks/Cole, Cengage Learning.
- Phan, T. T. V., Nikoloski, A. N., Bahri, P. A., & Li, D. (2019). Green synthesis of rGO/Ag nanocomposites using clove extract for catalytic degradation of organic dyes. *Applied Surface Science*, 483, 114–124.
- Raether, H. (1988). *Surface Plasmons on Smooth and Rough Surfaces and on Gratings*. Springer-Verlag.
- Rahmasari, L., Jayanti, P. D., Zurnansyah, Riswan, M., Istiqomah, N. I., Sari, E. K., Aji, W. W., Arifin, M., Sharma, A., Ali, D., Chotimah, & Suharyadi, E. (2025). Surface plasmon resonance-based sensor for Escherichia coli monitoring with novel green-synthesized silver/rGO/L-Histidine as an interface layer. *Measurement*, 256, 118350.

- Reyad-ul-Ferdous, M. (2015). Ex-vivo anti-inflammatory and antimicrobial activities of the leaves of *Amaranthus viridis*. *Journal of Chemical and Pharmaceutical Research*, 7(9), 71-77.
- Riswan, M., Adrianto, N., Yahya, I. M., Istiqomah, N. I., Panre, A. M., Juharni, Wahyuni, S., Arifin, M., Santoso, I., & Suharyadi, E. (2023). Effect of electric field on localized surface plasmon resonance properties of Fe₃O₄/Ag composite nanoparticles. *Optik*, 293.
- Rubio, A. S. (2015). Modified Au-based nanomaterials studied by surface plasmon resonance spectroscopy.
- Sadrolhosseini, A. R., Moksini, M. M., Yunus, W. M. M., Talib, Z. A., & Abdi, M. M. (2011). Surface Plasmon Resonance Detection of Copper Corrosion. *Optical Review*, 18(4), 276–282.
- Safa, M., & Koohestani, H. (2024). Green synthesis of silver nanoparticles with green tea extract from silver recycling of radiographic films, *Results in Engineering*, 21, 10-18.
- Sao, D., Singh, P., & Pandey, R. K. (2021). Optical Properties of Reduced Graphene Oxide: A Review. *Plasmonics*, 16(4), 1319–1326.
- Schasfoort, R. B. M. (2017). Handbook of Surface Plasmon Resonance. *Royal Society of Chemistry*.
- Shahdeo, D., Roberts, A., Abbineni, N., & Gandhi, S. (2020). Graphene based sensors. In *Comprehensive Analytical Chemistry* (Vol. 91, pp. 175–199). Elsevier B.V.
- Shalabney, A., & Abdulhalim, I. (2011). Sensitivity-enhancement methods for surface plasmon sensors. *Laser & Photonics Reviews*, 5(4), 571-606.
- Sholl, D.S. & Steckel, J.A. (2009). *Density Functional Theory—A Practical Introduction*. Wiley, Hoboken.
- Soleymani, A. R., Rafigh, S. M., & Hekmati, M. (2020). Green synthesis of RGO/Ag: As evidence for the production of uniform mono-dispersed nanospheres using microfluidization. *Applied Surface Science*, 518.
- Soni, R. A., Rana, R. S., & Godara, S. S. (2021). Characterization Tools and Techniques for Nanomaterials and Nanocomposites. *Nanomaterials and Nanocomposites*.
- Stankovich, S., Dikin, D. A., Dommett, G. H., Kohlhaas, K. M., Zimney, E. J., Stach, E. A., Piner, R. D., Nguyen, S. T., & Ruoff, R. S. (2006). Graphene-based composite materials. *Nature*, 442(7100), 282-286.
- Sutrisno, M. S., Yaakob, M. K., Naaime, M. M., Zaharim, W. N., & Sazali, E. S. (2025). Effect of Ag/rGO structure formation on LSPR & photoluminescence properties of Ag nanocomposite glasses: Experimental & DFT analysis. *Optical Materials*, 168, 117465.

- Tang, J., & Yang, J. (2017). *Fundamentals of Transmission Electron Microscopy*. Elsevier
- Utami, M., Shifani, D., Mafazah, H., Salmahaminati, & Yenn, T. W. (2025). Mangosteen peel extract-assisted green synthesis of Ag/TiO₂ and Ag/rGO as self-cleaning and antibacterial agent. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 724.
- Valyukh, I., Green, S. v., Granqvist, C. G., Niklasson, G. A., Valyukh, S., & Arwin, H. (2011). Optical properties of thin films of mixed Ni-W oxide made by reactive DC magnetron sputtering. *Thin Solid Films*, 519(9), 2914–2918.
- Wangsness, R. K. (1986). *Electromagnetic Fields (2nd ed.)*. John Wiley & Sons.
- Williams, G., Seger, B., & Kamat, P. V. (2008). TiO₂-graphene nanocomposites. UV-assisted photocatalytic reduction of graphene oxide. *ACS Nano*, 2(7), 1487–1491.
- Wu, F., Thomas, P. A., Kravets, V. G., Arola, H. O., Soikkeli, M., Iljin, K., Kim, G., Kim, M., Shin, H. S., Andreeva, D. V., Neumann, C., Küllmer, M., Turchanin, A., De Fazio, D., Balci, O., Babenko, V., Luo, B., Goykhman, I., Hofmann, S., Ferrari, A. C., Novoselov, K. S., & Grigorenko, A. N. (2019). Layer-dependent optical and dielectric properties of MoS₂, WS₂, MoSe₂ and WSe₂ 2D materials. *Scientific Reports*, 9(1), 1–10.
- Wu, L., Chu, H. S., Koh, W. S., & Li, E. P. (2010). Highly sensitive graphene biosensors based on surface plasmon resonance. *Optics Express*, 18(14), 15458–15463.
- Yusof, N. A., Bakar, A. A. A., Yunus, W. M. M., & Moxsin, M. M. (2020). Design and Optimization of Surface Plasmon Resonance Spectroscopy for Optical Constant Characterization and Potential Sensing Application: Theoretical and Experimental Approaches. *Applied Sciences*, 8(9), 361.
- Zaaba, N. I. (2017). Synthesis of Graphene Oxide using Modified Hummers Method: Solvent Effect. *Procedia Engineering*, 184, 469–477.
- Zeng, S., Baillargeat, D., Ho, H. P., & Yong, K. T. (2014). Nanomaterials enhanced surface plasmon resonance for biological and chemical sensing applications. *Chemical Society Reviews*, 43(10), 3426–3452.
- Zibai, M. I., Kazemi, A., Latifi, H., Azar, M. K., Hosseini, S. M., & Ghezelaigh, M. H. (2010). Measuring bacterial growth by refractive index tapered fiber optic biosensor. *Journal of Photochemistry and Photobiology B: Biology*, 101(3), 313–320.