

## DAFTAR PUSTAKA

- 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, 100895. <https://doi.org/10.1016/j.nanoso.2022.100895>
- 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). <https://doi.org/10.3390/polym13193350>
- Alharthi, F. A., Alghamdi, A. A., Al-Zaqri, N., Alanazi, H. S., Alsyahe, A. A., Marghany, A. El, & Ahmad, N. (2020). Facile one-pot green synthesis of Ag–ZnO Nanocomposites using potato peel and their Ag concentration dependent photocatalytic properties. *Scientific Reports*, 10(1), 1–14. <https://doi.org/10.1038/s41598-020-77426-y>
- Anggraeni, K., Riswan, M., Jayanti, P. D., Puspitarum, D. L., Ardiyanti, H., Swastika, P. E., Istiqomah, N. I., Arifin, M., & Suharyadi, E. (2025). Microstructure, magnetic, and surface plasmon resonance studies of green-synthesized ferrite nanoparticles for biosensor applications. *Journal of Magnetism and Magnetic Materials*, 614(August 2024), 172727. <https://doi.org/10.1016/j.jmmm.2024.172727>
- Ashrafi, T. M. S., & Mohanty, G. (2025). Surface Plasmon Resonance Sensors: A Critical Review of Recent Advances, Market Analysis, and Future Directions. *Plasmonics*, 0123456789. <https://doi.org/10.1007/s11468-024-02740-4>
- Atarod, M., Nasrollahzadeh, M., & Mohammad Sajadi, S. (2016). Euphorbia heterophylla leaf extract mediated green synthesis of Ag/TiO<sub>2</sub> nanocomposite and investigation of its excellent catalytic activity for reduction of variety of dyes in water. *Journal of Colloid and Interface Science*, 462, 272–279. <https://doi.org/10.1016/j.jcis.2015.09.073>
- Balbinot, S., Srivastav, A. M., Vidic, J., Abdulhalim, I., & Manzano, M. (2021). Plasmonic biosensors for food control. *Trends in Food Science and Technology*, 111(March), 128–140. <https://doi.org/10.1016/j.tifs.2021.02.057>
- Beyene, H. D., Werkneh, A. A., Bezabh, H. K., & Ambaye, T. G. (2017). Synthesis paradigm and applications of silver nanoparticles (AgNPs), a review. *Sustainable Materials and Technologies*. <https://doi.org/10.1016/j.susmat.2017.08.001>
- Cao, J., Sun, T., & Grattan, K. T. V. (2014). Gold nanorod-based localized surface plasmon resonance biosensors: A review. *Sensors and Actuators, B: Chemical*, 195, 332–351. <https://doi.org/10.1016/j.snb.2014.01.056>
- Choi, Y. I., Jung, H. J., Shin, W. G., & Sohn, Y. (2015). Band gap-engineered ZnO and Ag/ZnO by ball-milling method and their photocatalytic and Fenton-like photocatalytic activities. *Applied Surface Science*, 356, 615–625. <https://doi.org/10.1016/j.apsusc.2015.08.118>
- Cortijo-campos, S., Ramírez-jiménez, R., & de Andrés, A. (2021). Raman and fluorescence enhancement approaches in graphene-based platforms for optical sensing and imaging. *Nanomaterials*, 11(3), 1–31.

<https://doi.org/10.3390/nano11030644>

- Ding, J., Liu, Z., Li, W., Yin, C., & Chen, H. (2025). Localized Surface Plasmon Resonance of Ag-SiO<sub>2</sub> Core-Shell Nanowire Tetramers. *Plasmonics*, 0123456789. <https://doi.org/10.1007/s11468-025-02802-1>
- Dubey, S. K., Kumar, A., Kumar, A., Pathak, A., & Srivastava, S. K. (2022). A study of highly sensitive D-shaped optical fiber surface plasmon resonance based refractive index sensor using grating structures of Ag-TiO<sub>2</sub> and Ag-SnO<sub>2</sub>. *Optik*, 252(October 2021), 168527. <https://doi.org/10.1016/j.ijleo.2021.168527>
- Emon, W., Chaki, A., Mondal, T. P., Nayan, M. D. F., & Mahmud, R. R. (2024). Photonic crystal fiber-based SPR biosensor coated with Ag-TiO<sub>2</sub> and Au-TiO<sub>2</sub> for the detection of skin cancer: a comparison. *Optical and Quantum Electronics*, 56(8). <https://doi.org/10.1007/s11082-024-07250-5>
- Fujiwara, H., & Collins, R. W. (2018). *Spectroscopic Ellipsometry for Photovoltaics Volume 2: Applications and Optical Data of Solar Cell Materials*. Springer Series in Optical Sciences.
- Gungure, A. S., Jule, L. T., Nagaprasad, N., & Ramaswamy, K. (2024). Studying the properties of green synthesized silver oxide nanoparticles in the application of organic dye degradation under visible light. *Scientific Reports*, 14(1), 1–23. <https://doi.org/10.1038/s41598-024-75614-8>
- Guo, Y., Fu, X., Xie, Y., Zhu, L., Liu, R., & Liu, L. (2022). Synthesis of Ag/ZnO nanocomposites with enhanced visible photocatalytic performance. *Optical Materials*, 133(September), 112980. <https://doi.org/10.1016/j.optmat.2022.112980>
- Gupta, S., Paliwal, A., Gupta, V., & Tomar, M. (2018). Waveguide coupled surface plasmon resonance based electro optic modulation in SBN thin films. *Applied Surface Science*, 458(July), 139–144. <https://doi.org/10.1016/j.apsusc.2018.07.039>
- Gupta, S., Paliwal, A., Gupta, V., & Tomar, M. (2021). High figure of merit observed in SBN thin film based EO modulator employing WCSRP technique. *Optics and Laser Technology*, 137(January), 106816. <https://doi.org/10.1016/j.optlastec.2020.106816>
- Hosny, M., Fawzy, M., & Eltaweil, A. S. (2022). Green synthesis of bimetallic Ag/ZnO@Biohar nanocomposite for photocatalytic degradation of tetracycline, antibacterial and antioxidant activities. *Scientific Reports*, 12(1), 1–17. <https://doi.org/10.1038/s41598-022-11014-0>
- Inkson, B. J. (2016). 2 - Scanning electron microscopy & SEM; and transmission electron microscopy & TEM; for materials characterization. In *Materials Characterization Using Nondestructive Evaluation (NDE) Methods*. Elsevier Ltd. <https://doi.org/10.1016/B978-0-08-100040-3.00002-X>
- Jadhav, V., Patil, M., Pardeshi, S., Suryavanshi, H., & Bhagare, A. (2025). Green synthesis of Ag@TiO<sub>2</sub> nanomaterials using Achyranthes aspera leaf extract for sustainable photocatalytic degradation of dyes. *Discover Applied Sciences*, 7(7). <https://doi.org/10.1007/s42452-025-07324-3>
- Jadoun, S., Arif, R., Kumari, N., Rajesh, J., & Meena, K. (2021). Green synthesis

- of nanoparticles using plant extracts : a review. *Environmental Chemistry Letters*, 19(1), 355–374. <https://doi.org/10.1007/s10311-020-01074-x>
- Jatschka, J., Dathe, A., Csáki, A., Fritzsche, W., & Stranik, O. (2016). Propagating and localized surface plasmon resonance sensing - A critical comparison based on measurements and theory. *Sensing and Bio-Sensing Research*, 7, 62–70. <https://doi.org/10.1016/j.sbsr.2016.01.003>
- 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. <https://doi.org/10.1016/j.jsamd.2024.100747>
- Kadhum, F. J., Kafi, S. H., Saeed, A. A., Al-Zuky, A. A. D., & Al-Saleh, A. H. (2021). Simulation of Surface Plasmon Resonance (SPR) of Silver with Titanium Oxide as a Bi-Layer Biosensor. *Scientific Journal of King Faisal University Basic and Applied Sciences*, 22(2), 76–80. <https://doi.org/10.37575/b/sci/210046>
- Karna, S., Mahat, M., Choi, T. Y., Shimada, R., Wang, Z., & Neogi, A. (2016). Competition between Resonant Plasmonic Coupling and Electrostatic Interaction in Reduced Graphene Oxide Quantum Dots. *Scientific Reports*, 6(October), 1–11. <https://doi.org/10.1038/srep36898>
- Kawsar, M., Hossain, M. S., Bahadur, N. M., & Ahmed, S. (2024). Synthesis of nano-crystallite hydroxyapatites in different media and a comparative study for estimation of crystallite size using Scherrer method, Halder-Wagner method size-strain plot, and Williamson-Hall model. *Heliyon*, 10(3), e25347. <https://doi.org/10.1016/j.heliyon.2024.e25347>
- Khalaf, G. R., Abbas, K. N., & Abbas, A. M. (2024). Effect of Solvent Polarity on the Physical Properties and Antibacterial and Antifungal Activity of TiO<sub>2</sub> and Ag/TiO<sub>2</sub> Nanoparticles. *Brazilian Journal of Physics*, 54(3), 1–11. <https://doi.org/10.1007/s13538-024-01441-x>
- Kumar, B., Sofia, K., Sharma, V., Debut, A., & Cumbal, L. (2019). Ecofriendly synthesis of monodispersed silver nanoparticles using Andean Mortiño berry as reductant and its photocatalytic activity. *Vacuum*, 160(November 2018), 272–278. <https://doi.org/10.1016/j.vacuum.2018.11.027>
- Lou, L., Kendall, R. J., Smith, E., & Ramkumar, S. S. (2020). Functional PVDF/rGO/TiO<sub>2</sub> nanofiber webs for the removal of oil from water. *Polymer*, 186(November 2019), 122028. <https://doi.org/10.1016/j.polymer.2019.122028>
- Ma, S.-C., Gupta, R., Ondevilla, N. A. P., Barman, K., Lee, L.-Y., Chang, H.-C., & Huang, J.-J. (2023). Voltage-modulated surface plasmon resonance biosensors integrated with gold nanohole arrays. *Biomedical Optics Express*, 14(1), 182. <https://doi.org/10.1364/boe.478164>
- Mahardhika, L. J., Zurnansyah, Kusumah, H. P., Jayanti, P. D., Tumbelaka, R. M., Ardiyanti, H., Istiqomah, N. I., Sari, E. K., Asri, N. S., Angel, J., Aliah, H., & Suharyadi, E. (2024). Photodegradation enhancement of organic dyes using

- magnetically separable and reusable Fe<sub>3</sub>O<sub>4</sub>/rGO nanocomposites green-synthesized utilizing plant leaves extract. *Case Studies in Chemical and Environmental Engineering*, 10(August), 100915. <https://doi.org/10.1016/j.cscee.2024.100915>
- Mahato, P. K., Seal, A., Garain, S., & Sen, S. (2015). Effect of fabrication technique on the crystalline phase and electrical properties of PVDF films. *Materials Science- Poland*, 33(1), 157–162. <https://doi.org/10.1515/msp-2015-0020>
- Mahmudin, L., Suharyadi, E., Utomo, A. B. S., & Abraha, K. (2015). Optical Properties of Silver Nanoparticles for Surface Plasmon Resonance (SPR)-Based Biosensor Applications. *Journal of Modern Physics*, 06(08), 1071–1076. <https://doi.org/10.4236/jmp.2015.68111>
- Milano, V., Riswan, M., Jayanti, P. D., Istiqomah, N. I., Zurnansyah, Rini, N. P., Anggraeni, K., Asri, N. S., Angel, J., Sharma, A., Ali, D., Chotimah, & Suharyadi, E. (2025). Highly sensitive surface plasmon resonance-based sensor using green synthesized Fe<sub>3</sub>O<sub>4</sub>/rGO interface layer utilizing plant leaf extracts for alcohol compound detection. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 339(April), 126266. <https://doi.org/10.1016/j.saa.2025.126266>
- Mousavi-Kouhi, S. M., Beyk-Khormizi, A., Amiri, M. S., Mashreghi, M., & Taghavizadeh Yazdi, M. E. (2021). Silver-zinc oxide nanocomposite: From synthesis to antimicrobial and anticancer properties. *Ceramics International*, 47(15), 21490–21497. <https://doi.org/10.1016/j.ceramint.2021.04.160>
- Murphy, M., Ting, K., Zhang, X., Soo, C., & Zheng, Z. (2015). Current Development of Silver Nanoparticle Preparation , Investigation , and Application in the Field of Medicine. *Journal of Nanomaterials*, 2015.
- Muthusamy, K., Velu, D., Giri, J., Gunnasegaran, P., Husain, A., Vicki, W. V., & Kanan, M. (2025). Green Synthesis of Silver/Zinc Oxide Plasmonic Nanocomposites Using Moringa Oleifera: A Dual-Function Strategy for Photocatalysis and Dye-Sensitized Solar Cell Performance. *Journal of Science: Advanced Materials and Devices*, 100954. <https://doi.org/10.1016/j.jsamd.2025.100954>
- Nareswari, T. L., Juniatic, M., Aminatun, A., Sari, M., Utami, R. A., Sari, Y. W., Khairurrijal, K., Yusuf, Y., & Suciati, T. (2022). A facile technique for overcoming seeding barriers of hydrophobic polycaprolactone/hydroxyapatite-based nanofibers for bone tissue engineering. *Journal of Applied Pharmaceutical Science*, 0(00), 1–12. <https://doi.org/10.7324/japs.2023.130206>
- Nguyen, T. H., Hoang, N. H., Van Tran, C., Nguyen, P. T. M., Dang, T. D., Chung, W. J., Chang, S. W., Nguyen, D. D., Senthil Kumar, P., & La, D. D. (2022). Green synthesis of a photocatalyst Ag/TiO<sub>2</sub> nanocomposite using Cleistocalyx operculatus leaf extract for degradation of organic dyes. *Chemosphere*, 306(March), 135474. <https://doi.org/10.1016/j.chemosphere.2022.135474>
- Nishi, Y., Watanabe, R., Sasaki, S., Okada, A., Seto, K., Kobayashi, T., & Tokunaga, E. (2021). Electric-field induced shift in the plasmon resonance due to the interfacial pockels effect of water on a silver surface. *Applied Sciences (Switzerland)*, 11(5), 1–17. <https://doi.org/10.3390/app11052152>

- Noohpisheh, Z., Amiri, H., Farhadi, S., & Mohammadi-gholami, A. (2020). Green synthesis of Ag-ZnO nanocomposites using *Trigonella foenum-graecum* leaf extract and their antibacterial, antifungal, antioxidant and photocatalytic properties. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 240, 118595. <https://doi.org/10.1016/j.saa.2020.118595>
- 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. <https://doi.org/10.3390/nano10030569>
- Pal, A., Jana, A., Bhattacharya, S., & Datta, J. (2017). SPR effect of AgNPs decorated TiO<sub>2</sub> in DSSC using TPMPI in the electrolyte: Approach towards low light trapping. *Electrochimica Acta*, 243, 33–43. <https://doi.org/10.1016/j.electacta.2017.05.051>
- Panchal, P., Paul, D. R., Sharma, A., Choudhary, P., Meena, P., & Nehra, S. P. (2020). Biogenic mediated Ag/ZnO nanocomposites for photocatalytic and antibacterial activities towards disinfection of water. *Journal of Colloid and Interface Science*, 563, 370–380. <https://doi.org/10.1016/j.jcis.2019.12.079>
- Pham, T. A. T., Tran, V. A., Le, V. D., Nguyen, M. V., Truong, D. D., Do, X. T., & Vu, A. T. (2020). Facile Preparation of ZnO Nanoparticles and Ag/ZnO Nanocomposite and Their Photocatalytic Activities under Visible Light. *International Journal of Photoenergy*, 2020. <https://doi.org/10.1155/2020/8897667>
- Phiri, I. K., & Zekriti, M. (2024a). Sensitivity and performance enhancement of an SPR biosensor using a gold-silver alloy, zinc oxide and graphene. *Optical and Quantum Electronics*, 56(8), 1–23. <https://doi.org/10.1007/s11082-024-07227-4>
- Phiri, I. K., & Zekriti, M. (2024b). Sensitivity and performance enhancement of an SPR biosensor using a gold-silver alloy, zinc oxide and graphene. *Optical and Quantum Electronics*, 56(8), 1–23. <https://doi.org/10.1007/s11082-024-07227-4>
- Rahmasari, L., Dwi, P., Riswan, M., Imani, N., Kurnia, E., Waskito, W., Arifin, M., Sharma, A., Ali, D., & 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(PC), 118350. <https://doi.org/10.1016/j.measurement.2025.118350>
- Rashid, J., Barakat, M. A., Salah, N., & Habib, S. S. (2014). Ag/ZnO nanoparticles thin films as visible light photocatalysts. *RSC Advances*, 4(100), 56892–56899. <https://doi.org/10.1039/c4ra12990c>
- Rathi, V. H., Jeice, A. R., & Jayakumar, K. (2023). Green synthesis of Ag/CuO and Ag/ TiO<sub>2</sub> nanoparticles for enhanced photocatalytic dye degradation, antibacterial, and antifungal properties. *Applied Surface Science Advances*, 18(August), 100476. <https://doi.org/10.1016/j.apsadv.2023.100476>
- Rathi V, H., & Jeice, A. R. (2024). Visible light photocatalytic dye degradation, antimicrobial activities of green synthesized Ag/TiO<sub>2</sub> nanoparticles. *Chemical Physics Impact*, 8(December 2023), 100537.

- <https://doi.org/10.1016/j.chphi.2024.100537>
- Rini, N. P., Zurnansyah, Larasati, D. A., Mahardhika, L. J., Jayanti, P. D., Kusumah, H. P., Istiqomah, N. I., Tumbelaka, R. M., Asri, N. S., Angel, J., Kato, T., Oshima, D., Aliah, H., Kusumaatmaja, A., & Suharyadi, E. (2024). Photocatalytic degradation of Rhodamine B using a reusable and magnetically separable Fe<sub>3</sub>O<sub>4</sub>/rGO/ZnO nanocomposite synthesized through green approach utilizing plant leaf extracts. *Journal of Science: Advanced Materials and Devices*, 9(4), 100812. <https://doi.org/10.1016/j.jsamd.2024.100812>
- 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 Fe<sub>3</sub>O<sub>4</sub>/Ag composite nanoparticles. *Optik*, 293(September), 171404. <https://doi.org/10.1016/j.ijleo.2023.171404>
- Riswan, M., Widiyanto, E., Istiqomah, N. I., Driyo, C., Arifin, M., Santoso, I., & Suharyadi, E. (2024a). Tuning optical properties of Au thin film using electric field for surface plasmon resonance biosensor application. *Optical Materials*, 150(March), 115221. <https://doi.org/10.1016/j.optmat.2024.115221>
- Riswan, M., Widiyanto, E., Istiqomah, N. I., Driyo, C., Arifin, M., Santoso, I., & Suharyadi, E. (2024b). Tuning optical properties of Au thin film using electric field for surface plasmon resonance biosensor application. *Optical Materials*, 150(December 2023), 115221. <https://doi.org/10.1016/j.optmat.2024.115221>
- Riswan, M., Widiyanto, E., Istiqomah, N. I., Driyo, C., Arifin, M., Santoso, I., & Suharyadi, E. (2024c). Tuning optical properties of Au thin film using electric field for surface plasmon resonance biosensor application. *Optical Materials*, 150(February), 115221. <https://doi.org/10.1016/j.optmat.2024.115221>
- Rubio, A. S. (2014). *Modified Au-based nanomaterials studied by surface plasmon resonance spectroscopy Estudio de nanomateriales modificados basados en Au mediante espectroscopía de resonancia de plasmones de superficie* ida Serrano Rubio.
- Sajjad, S., Ahmed, S., Leghari, K., & Ryma, N. (2018). Green Synthesis of Metal-Based Nanoparticles and Their Applications. *Scrivener Publishing LLC*, 23–77. <https://doi.org/https://doi.org/10.1002/9781119418900.ch2>
- Sarma, B., & Sarma, B. (2017). Fabrication of Ag/ZnO heterostructure and the role of surface coverage of ZnO microrods by Ag nanoparticles on the photophysical and photocatalytic properties of the metal-semiconductor system. *Applied Surface Science*, 410, 557–565. <https://doi.org/10.1016/j.apsusc.2017.03.154>
- Shaikh, A., Parida, S., & Böhm, S. (2016). One step eco-friendly synthesis of Ag-reduced graphene oxide nanocomposite by phytoreduction for sensitive nitrite determination. *RSC Advances*, 6(102), 100383–100391. <https://doi.org/10.1039/c6ra23655c>
- Shivangani, Alotaibi, M. F., Al-Hadeethi, Y., Lohia, P., Singh, S., Dwivedi, D. K., Umar, A., Alzayed, H. M., Algadi, H., & Baskoutas, S. (2022). Numerical Study to Enhance the Sensitivity of a Surface Plasmon Resonance Sensor with BlueP/WS<sub>2</sub>-Covered Al<sub>2</sub>O<sub>3</sub>-Nickel Nanofilms. *Nanomaterials*, 12(13). <https://doi.org/10.3390/nano12132205>

- Singh, N. P., Mishra, A. C., Yadav, S., Lohia, P., Dwivedi, D. K., & Hossain, M. K. (2025). Highly Sensitive SPR Biosensor for Malaria Detection Employing ZnO, Fe<sub>2</sub>O<sub>3</sub>, and Black Phosphorous. *Plasmonics*, 20(2), 1029–1039. <https://doi.org/10.1007/s11468-024-02307-3>
- Singh, S. K., & Singhal, R. (2018). Thermal-induced SPR tuning of Ag-ZnO nanocomposite thin film for plasmonic applications. *Applied Surface Science*, 439, 919–926. <https://doi.org/10.1016/j.apsusc.2018.01.112>
- Slathia, S., Gupta, T., & Chauhan, R. P. (2021). Green synthesis of Ag-ZnO nanocomposite using Azadirachta indica leaf extract exhibiting excellent optical and electrical properties. *Physica B: Condensed Matter*, 621(July), 413287. <https://doi.org/10.1016/j.physb.2021.413287>
- Sun, Z., Cao, J., Wang, S., Zhang, Z., Li, J., Xu, X., Wang, Y., Ye, Z., & Zhang, H. (2024). LSPR effect enabled Ag-TiO<sub>2</sub> nanotube arrays for high sensitivity and selectivity detection of acetone under visible light. *Journal of Alloys and Compounds*, 1003. <https://doi.org/10.1016/j.jallcom.2024.175533>
- Swati, Verma, R., Chauhan, A., Shandilya, M., Li, X., Kumar, R., & Kulshrestha, S. (2020). Antimicrobial potential of ag-doped ZnO nanostructure synthesized by the green method using moringa oleifera extract. *Journal of Environmental Chemical Engineering*, 8(3), 103730. <https://doi.org/10.1016/j.jece.2020.103730>
- Tabasi, O., & Falamaki, C. (2019). Controlled immobilization of IgG1 on carboxymethyl and amino-dextran SPR chips under external vertical electric fields. *Applied Surface Science*, 490(May), 251–259. <https://doi.org/10.1016/j.apsusc.2019.06.085>
- Thangamani, N. (2022). Synthesis , characterization of Ag nanoparticles using the green approach towards degradation of environmental pollutant. *Journal of Materials Science: Materials in Electronics*, 33(12), 9155–9162. <https://doi.org/10.1007/s10854-021-07188-4>
- Tuichai, W., Karaphun, A., & Ruttanapun, C. (2020). Ag nanomaterials deposited reduced graphene oxide nanocomposite as an advanced hybrid electrode material for Asymmetric Supercapacitor device. *Journal of Alloys and Compounds*, 849, 156516. <https://doi.org/10.1016/j.jallcom.2020.156516>
- Uthiravel, V., Narayanamurthi, K., Raja, V., Anandhabasker, S., & Kuppasamy, K. (2024). Green synthesis and characterization of TiO<sub>2</sub> and Ag-doped TiO<sub>2</sub> nanoparticles for photocatalytic and antimicrobial applications. *Inorganic Chemistry Communications*, 170(P3), 113327. <https://doi.org/10.1016/j.inoche.2024.113327>
- Wahyuni, S., Riswan, M., Adrianto, N., Dharmawan, M. Y., Tumbelaka, R. M., Cuana, R., Istiqomah, N. I., Jiananda, A., Garcia, S., & Suharyadi, E. (2023). Localized surface plasmon resonance properties dependence of green-synthesized Fe<sub>3</sub>O<sub>4</sub>/Ag composite nanoparticles on Ag concentration and an electric field for biosensor application. *Photonics and Nanostructures - Fundamentals and Applications*, 57(October), 101191. <https://doi.org/10.1016/j.photonics.2023.101191>
- Wang, L., Liu, Y., Yang, J., Xu, X., Shao, B., Zhu, H., Cai, H., Sun, T., Yin, J., Alshareef, H. N., Bakr, O. M., Zhu, Y., & Mohammed, O. F. (2025). Lattice

- Expansion Enables Large Surface Carrier Diffusion in WS<sub>2</sub> Monolayer. *ACS Energy Letters*, 10(4), 1741–1750. <https://doi.org/10.1021/acsenerylett.5c00307>
- Wang, T. J., & Ho, P. C. (2011). Localized surface plasmon resonance biosensing by electro-optic modulation with sensitivity and resolution tunability. *Journal of Applied Physics*, 109(6). <https://doi.org/10.1063/1.3563065>
- West, P. R., Ishii, S., Naik, G. V., Emani, N. K., Shalaev, V. M., & Boltasseva, A. (2010). Searching for better plasmonic materials. *Laser and Photonics Reviews*, 4(6), 795–808. <https://doi.org/10.1002/lpor.200900055>
- William S. Hummers, J., & Offemina, R. E. (1957). Preparation of Graphitic Oxide. *CONTRIBUTION FROM THE BAROID DIVISION, NATIONAL LEAD COMPANY*, 208(1937), 1937. <https://doi.org/https://doi.org/10.1021/ja01539a017>
- Xu, T., & Geng, Z. (2021). Strategies to improve performances of LSPR biosensing: Structure, materials, and interface modification. *Biosensors and Bioelectronics*, 174(November 2020), 112850. <https://doi.org/10.1016/j.bios.2020.112850>
- Yahya, S. N., Istiqomah, N. I., Sari, E. K., Asri, N. S., Darmawan, M. Y., Tumbelaka, R. M., Adrianto, N., & Suharyadi, E. (2025a). Photodegradation of organic water pollutants using magnetically separable and reusable novel Ag-doped Fe<sub>3</sub>O<sub>4</sub>/TiO<sub>2</sub> nanocomposites synthesized by green route. *Inorganic Chemistry Communications*, 172(December 2024), 113749. <https://doi.org/10.1016/j.inoche.2024.113749>
- Yahya, S. N., Istiqomah, N. I., Sari, E. K., Asri, N. S., Darmawan, M. Y., Tumbelaka, R. M., Adrianto, N., & Suharyadi, E. (2025b). Photodegradation of organic water pollutants using magnetically separable and reusable novel Ag-doped Fe<sub>3</sub>O<sub>4</sub>/TiO<sub>2</sub> nanocomposites synthesized by green route. *Inorganic Chemistry Communications*, 172(December 2024), 113749. <https://doi.org/10.1016/j.inoche.2024.113749>
- Yang, S., Xue, B., Li, Y., Li, X., Xie, L., Qin, S., Xu, K., & Zheng, Q. (2020). Controllable Ag-rGO heterostructure for highly thermal conductivity in layer-by-layer nanocellulose hybrid films. *Chemical Engineering Journal*, 383(October 2019), 1–9. <https://doi.org/10.1016/j.cej.2019.123072>
- Yeneayehu, K., Senbeta, T., & Mesfin, B. (2021). Enhancement of the optical response of Fe<sub>3</sub>O<sub>4</sub>@Ag core-shell nanoparticles. *Physica E: Low-Dimensional Systems and Nanostructures*, 134(June 2020), 114822. <https://doi.org/10.1016/j.physe.2021.114822>
- Yu, H., Peng, Y., Yang, Y., & Li, Z. Y. (2019). Plasmon-enhanced light–matter interactions and applications. *Npj Computational Materials*, 5(1), 1–14. <https://doi.org/10.1038/s41524-019-0184-1>
- Zhang, Y., Fu, F., Li, Y., Zhang, D., & Chen, Y. (2018). One-step synthesis of Ag@TiO<sub>2</sub> nanoparticles for enhanced photocatalytic performance. *Nanomaterials*, 8(12). <https://doi.org/10.3390/NANO8121032>