

## DAFTAR PUSTAKA

- Adfa, M. (2008) ‘Senyawa antibakteri dari daun pacar air (*Impatiens balsamina Linn.*)’, *Jurnal Gradien*, 4(1), pp. 318–322.
- Ahmmad, B. et al. (2013) ‘Green synthesis of mesoporous hematite ( $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>) nanoparticles and their photocatalytic activity’, *Advanced Powder Technology*. The Society of Powder Technology Japan, 24(1), pp. 160–167. doi: 10.1016/j.apt.2012.04.005.
- Ali, M. Ben et al. (2015) ‘Hydrothermal synthesis, phase structure, optical and photocatalytic properties of Zn<sub>2</sub>SnO<sub>4</sub> nanoparticles’, *Journal of Colloid and Interface Science*. Elsevier Inc., 457, pp. 360–369. doi: 10.1016/j.jcis.2015.07.015.
- Alpuche-Aviles, M. A. and Wu, Y. (2009) ‘Photoelectrochemical study of the band structure of Zn<sub>2</sub>SnO<sub>4</sub> prepared by the hydrothermal method’, *Journal of the American Chemical Society*, 131(9), pp. 3216–3224. doi: 10.1021/ja806719x.
- Aminuzzaman, M. et al. (2018) ‘Green synthesis of zinc oxide nanoparticles using aqueous extract of *Garcinia mangostana* fruit pericarp and their photocatalytic activity’, *Bulletin of Materials Science*. Indian Academy of Sciences, 41, pp. 1–10. doi: 10.1007/s12034-018-1568-4.
- Angajala, G., Ramya, R. and Subashini, R. (2014) ‘In-vitro anti-inflammatory and mosquito larvicidal efficacy of nickel nanoparticles phytofabricated from aqueous leaf extracts of *Aegle marmelos Correa*’, *Acta Tropica*. Elsevier B.V., 135, pp. 19–26. doi: 10.1016/j.actatropica.2014.03.012.
- Aritonang, H. F., Koleangan, H. and Wuntu, A. D. (2019) ‘Synthesis of Silver nanoparticles using aqueous extract of medicinal plants’ (*Impatiens balsamina* and *Lantana camara* ) fresh leaves and analysis of antimicrobial activity’, *International Journal of Microbiology*, 2019. doi: 10.1155/2019/8642303.
- Bao, L. et al. (2014) ‘Atomic-scale imaging of cation ordering in inverse spinel Zn<sub>2</sub>SnO<sub>4</sub> nanowires’, *Nano Letters*, 14, p. 6505–6509.
- Baruah, S. and Dutta, J. (2011) ‘Zinc stannate nanostructures: hydrothermal synthesis’, *Science and Technology of Advanced Materials*, 12(1), pp. 1–18. doi: 10.1088/1468-6996/12/1/013004.
- Bohm, B. A. and Towers, G. H. N. (1962) ‘A study of phenolic compounds in *impatiens*’, *Canadian Journal of Botany*, 40, pp. 677–683.
- Chandran, S. P. et al. (2006) ‘Synthesis of gold nanotriangles and silver nanoparticles using *Aloe vera* plant extract’, *Biotechnol. Prog.*, 22(2), pp.

- Chaudhary, A. *et al.* (2019) ‘Antimicrobial activity of zinc oxide nanoparticles synthesized from Aloe vera peel extract’, *SN Applied Sciences*. Springer International Publishing, 1(136), pp. 1–9. doi: 10.1007/s42452-018-0144-2.
- Chen, C. *et al.* (2015) ‘One-step synthesis of 3D flower-like Zn<sub>2</sub>SnO<sub>4</sub> hierarchical nanostructures and their gas sensing properties’, *Ceramics International*. Elsevier, 41, pp. 1857–1862. doi: 10.1016/j.ceramint.2014.09.136.
- Clevenger, S. (1958) ‘The Flavonols of Impatiens balsamina L.’, *Archives of Biochemistry and Biophysics*, 76, pp. 131–138.
- Cun, W. and Xinming, W. (2002) ‘Synthesis, characterization and photocatalytic property of nano-sized Zn<sub>2</sub>SnO<sub>4</sub>’, *Journal of Materials Science*, 37, pp. 2989–2996. doi: 10.1016/j.msea.2006.06.010.
- Diallo, A. *et al.* (2015) ‘Green synthesis of ZnO nanoparticles by Aspalathus linearis: Structural & optical properties’, *Journal of Alloys and Compounds*. Elsevier B.V, 646, pp. 425–430. doi: 10.1016/j.jallcom.2015.05.242.
- Dobrucka, R. (2017) ‘Synthesis of titanium dioxide nanoparticles using Echinacea purpurea herba’, *Iranian Journal of Pharmaceutical Research*, 16(2), pp. 753–759.
- Dou, J. *et al.* (2019) ‘Fabrication of Zn<sub>2</sub>SnO<sub>4</sub> microspheres with controllable shell numbers for highly efficient dye-sensitized solar cells’, *Solar Energy*. Elsevier, 181, pp. 424–429. doi: 10.1016/j.solener.2019.02.016.
- Dwivedi, A. D. and Gopal, K. (2010) ‘Biosynthesis of silver and gold nanoparticles using Chenopodium album leaf extract’, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. Elsevier B.V., 369, pp. 27–33. doi: 0.1002/met.160.
- El-seedi, H. R. *et al.* (2019) ‘Metal nanoparticles fabricated by green chemistry using natural extracts: biosynthesis, mechanisms, and applications’, *RSC Advances*. Royal Society of Chemistry, 9, pp. 24539–24559. doi: 10.1039/c9ra02225b.
- Elia, P. *et al.* (2014) ‘Green synthesis of gold nanoparticles using plant extract as reducing agents’, *International Journal of Nanomedicine*, 9, pp. 4007–4021. doi: 10.22036/ncr.2017.01.002.
- Elumalai, K. *et al.* (2015) ‘Green synthesis of zinc oxide nanoparticles using Moringa oleifera leaf extract and evaluation of its antimicrobial activity’, *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*.

- Elsevier B.V., 143, pp. 158–164. doi: 10.1016/j.saa.2015.02.011.
- Emilio, C. A. et al. (2006) ‘Phenol photodegradation on platinized-TiO<sub>2</sub> photocatalysts related to charge-carrier dynamics’, *Langmuir*, 22, pp. 3606–3613. doi: 10.1021/la051962s.
- Fang, J. et al. (2001) ‘Hydrothermal preparation and characterization of Zn<sub>2</sub>SnO<sub>4</sub> particles’, *Materials Research Bulletin*, 36, pp. 1391–1397.
- Firooz, A. A. et al. (2010) ‘High photocatalytic activity of Zn<sub>2</sub>SnO<sub>4</sub> among various nanostructures of Zn<sub>2x</sub>Sn<sub>1-x</sub>O<sub>2</sub> prepared by a hydrothermal method’, *Chemical Engineering Journal*. Elsevier B.V., 165, pp. 735–739. doi: 10.1016/j.cej.2010.09.052.
- Foletto, E. L. et al. (2013) ‘Application of Zn<sub>2</sub>SnO<sub>4</sub> photocatalyst prepared by microwave-assisted hydrothermal route in the degradation of organic pollutant under sunlight’, *Ceramics International*, 39, pp. 4569–4574. doi: 10.1016/j.ceramint.2012.11.053.
- Foletto, E. L. et al. (2014) ‘Effect of microwave power on the Zn<sub>2</sub>SnO<sub>4</sub> synthesis and its use for photodegradation of phenol’, *Journal of Chemistry and Chemical Engineering*, 8, pp. 794–799.
- Foletto, E. L., Jahn, S. L. and Moreira, R. D. F. P. M. (2010) ‘Hydrothermal preparation of Zn<sub>2</sub>SnO<sub>4</sub> nanocrystals and photocatalytic degradation of a leather dye’, *Journal of Applied Electrochemistry*, 40, pp. 59–63. doi: 10.1007/s10800-009-9967-2.
- Fu, Xianliang et al. (2009) ‘Hydrothermal synthesis, characterization, and photocatalytic properties of Zn<sub>2</sub>SnO<sub>4</sub>’, *Journal of Solid State Chemistry*, 182(3), pp. 517–524. doi: 10.1016/j.jssc.2008.11.029.
- Handani, S. et al. (2020) ‘Enhanced structural, optical and morphological properties of ZnO thin film using green chemical approach’, *Vacuum*, 179(109513). doi: <https://doi.org/10.1016/j.vacuum.2020.109513>.
- Hidalgo, M. C. et al. (2007) ‘Hydrothermal preparation of highly photoactive TiO<sub>2</sub> nanoparticles’, *Catalysis Today*, 129, pp. 50–58. doi: 10.1016/j.cattod.2007.06.053.
- Hu, X. et al. (2017) ‘Hydrothermal synthesis, characterization and enhanced visible-light photocatalytic activity of Co-doped Zn<sub>2</sub>SnO<sub>4</sub>nanoparticles’, *Chemical Physics*. Elsevier B.V., 490, pp. 38–46. doi: 10.1016/j.chemphys.2017.04.001.
- Hudlikar, M. et al. (2012) ‘Green synthesis of TiO<sub>2</sub> nanoparticles by using aqueous extract of *Jatropha curcas* L. latex’, *Materials Letters*. Elsevier B.V., 75, pp. 196–199. doi: 10.1016/j.matlet.2012.02.018.
- Hwang, D. et al. (2014) ‘Hierarchically structured Zn<sub>2</sub>SnO<sub>4</sub> nanobeads for high-

- efficiency dye-sensitized solar cells', *Scientific Reports*, 4(7353). doi: 10.1038/srep07353.
- Iravani, S. (2011) 'Green synthesis of metal nanoparticles using plants', *Green Chemistry*, 13(10), p. 2638. doi: 10.1039/c1gc15386b.
- Jaculine, M. M., Raj, C. J. and Das, S. J. (2013) 'Hydrothermal synthesis of highly crystalline Zn<sub>2</sub>SnO<sub>4</sub> nanoflowers and their optical properties', *Journal of Alloys and Compounds*. Elsevier B.V., 577, pp. 131–137. doi: 10.1016/j.jallcom.2013.04.158.
- Jafarirad, S. et al. (2015) 'Biofabrication of zinc oxide nanoparticles using fruit extract of Rosa canina and their toxic potential against bacteria: A mechanistic approach', *Materials Science & Engineering C*. Elsevier B.V., 59, pp. 296–302. doi: 10.1016/j.msec.2015.09.089.
- Jeevanandam, J., Chan, Y. S. and Danquah, M. K. (2016) 'Biosynthesis of metal and metal oxide nanoparticles', *ChemBioEng Reviews*, 3(2), pp. 55–67. doi: 10.1002/cben.201500018.
- Jeng, M. et al. (2013) 'Particle size effects of TiO<sub>2</sub> layers on the solar efficiency of dye-sensitized solar cells', *International Journal of Photoenergy*, 2013, pp. 1–9. doi: <http://dx.doi.org/10.1155/2013/563897>.
- Jeronsia, J. E. et al. (2016) 'Hydrothermal synthesis of zinc stannate nanoparticles for antibacterial applications', *Journal of Taibah University for Science*. Taibah University, 10(4), pp. 601–606. doi: 10.1016/j.jtusci.2015.12.003.
- Ji, X. et al. (2010) 'Hydrothermal synthesis of novel Zn<sub>2</sub>SnO<sub>4</sub> octahedron microstructures assembled with hexagon nanoplates', *Journal of Alloys and Compounds*, 503, pp. L21–L25. doi: 10.1016/j.jallcom.2009.12.038.
- Ji, X., Avula, B. and Khan, I. A. (2007) 'Quantitative and qualitative determination of six xanthones in Garcinia mangostana L. by LC-PDA and LC-ESI-MS', *Journal of Pharmaceutical and Biomedical Analysis*, 43, pp. 1270–1276. doi: 10.1016/j.jpba.2006.10.018.
- Jung, H.-A. et al. (2006) 'Antioxidant xanthones from the pericarp of Garcinia mangostana (Mangosteen)', *Journal of Agricultural and Food Chemistry*, 54, pp. 2077–2082. doi: 10.1021/jf052649z.
- Kang, S. C. and Moon, Y. H. (1992) 'Isolation and antimicrobial activity of a naphthoquinone from Impatiens balsamina', *Korean Journal of Pharmacognosy*, 23(4), pp. 240–247.
- Kang, S. N. et al. (2013) 'Antioxidant and antimicrobial activities of ethanol extract from the stem and leaf of Impatiens balsamina L. (balsaminaceae) at different harvest times', *Molecules*, 18(6), pp. 6356–6365. doi: 10.3390/molecules18066356.

- Karnan, T. and Selvakumar, S. A. S. (2016) ‘Biosynthesis of ZnO nanoparticles using Rambutan (*Nephelium lappaceum* L.) peel extract and their photocatalytic activity on methyl orange dye’, *Journal of Molecular Structure*. Elsevier Ltd, 1125, pp. 358–365. doi: 10.1016/j.molstruc.2016.07.029.
- Karthiga, P. (2017) ‘Preparation of silver nanoparticles by *Garcinia mangostana* stem extract and investigation of the antimicrobial properties’, *Biotechnology Research and Innovation*. Sociedade Brasileira de Biotecnologia, 2(1), pp. 1–7. doi: 10.1016/j.biori.2017.11.001.
- Khalafi, T., Buazar, F. and Ghanemi, K. (2019) ‘Phycosynthesis and enhanced photocatalytic activity of zinc oxide nanoparticles toward organosulfur pollutants’, *Scientific Reports*. Springer US, 9(6866), pp. 1–10. doi: 10.1038/s41598-019-43368-3.
- Kong, M. *et al.* (2011) ‘Tuning the relative concentration ratio of bulk defects to surface defects in TiO<sub>2</sub> nanocrystals leads to high photocatalytic efficiency’, *Journal of the American Chemical Society*, 133, pp. 16414–16417. doi: 10.1021/ja207826q.
- Labanni, A. *et al.* (2018) ‘Uncaria gambir Roxb. mediated green synthesis of silver nanoparticles using diethanolamine as capping agent’, in *IOP Conference Series: Materials Science and Engineering*, p. 299 012067. doi: 10.1088/1757-899X/299/1/012067.
- Larsson, L. F. G. *et al.* (2019) ‘Application of zinc oxide in hybrid solar cells using a P3HT and P3OT polymer junction as charge carrier’, *Materials Research*, 22, pp. 1–5. doi: <http://dx.doi.org/10.1590/1980-5373-MR-2018-0820> Application.
- Lee, K. X. *et al.* (2016) ‘Green synthesis of gold nanoparticles using aqueous extract of *Garcinia mangostana* fruit peels’, *Journal of Nanomaterials*, 2016(8489094). doi: <http://dx.doi.org/10.1155/2016/8489094>.
- Lee, K. X. *et al.* (2019) ‘Bio-mediated synthesis and characterisation of silver nanocarrie , and its potent anticancer action’, *Nanomaterials*, 9(1423), pp. 1–19.
- Li, X. *et al.* (2011) ‘A general, one-step and template-free synthesis of sphere-like zinc ferrite nanostructures with enhanced photocatalytic activity for dye degradation’, *Journal of Colloid and Interface Science*. Elsevier Inc., 358(1), pp. 102–108. doi: 10.1016/j.jcis.2011.02.052.
- Li, Z. *et al.* (2012) ‘Hexagonal nanoplate-textured micro-octahedron Zn<sub>2</sub>SnO<sub>4</sub>: combined effects toward enhanced efficiencies of dye-sensitized solar cell and photoreduction of CO<sub>2</sub> into hydrocarbon fuels’, *Crystal Growth & Design*, 12(3), pp. 1476–1481. doi: 10.1021/cg201568q.

- Liu, X. *et al.* (2016) ‘Gradient-temperature hydrothermal fabrication of hierarchical Zn<sub>2</sub>SnO<sub>4</sub> hollow boxes stimulated by thermodynamic phase transformation’, *Journal of Materials Chemistry A*, 4(37), pp. 14095–14100. doi: 10.1039/c6ta06016a.
- Makarov, V. V. *et al.* (2014) ‘Green nanotechnologies: synthesis of metal nanoparticles using plants’, *Acta naturae*, 6(1 (20)), pp. 35–44. doi: 10.1039/c1gc15386b.
- Malik, P. *et al.* (2014) ‘Green chemistry based benign routes for nanoparticle synthesis’, *Journal of Nanoparticles*, 2014, pp. 1–14. doi: 10.1155/2014/302429.
- Maryanti, E. *et al.* (2014) ‘Synthesis of ZnO nanoparticles by hydrothermal method in aqueous rinds extracts of Sapindus rarak DC’, *Materials Letters*. Elsevier, 118, pp. 96–98. doi: 10.1016/j.matlet.2013.12.044.
- Masjedi-Arani, M. and Salavati-Niasari, M. (2016) ‘Effect of carbohydrate sugars as a capping agent on the size and morphology of pure Zn<sub>2</sub>SnO<sub>4</sub> nanostructures and their optical properties’, *Materials Letters*. Elsevier, 174, pp. 71–74. doi: 10.1016/j.matlet.2016.03.084.
- Matussin, S. *et al.* (2020) ‘Plant extract-mediated SnO<sub>2</sub> nanoparticles: Synthesis and applications’, *ACS Sustainable Chemistry & Engineering*, 8(8), pp. 3040–3054. doi: 10.1021/acssuschemeng.9b06398.
- Mayedwa, N. *et al.* (2018) ‘Green synthesis of zin tin oxide (ZnSnO<sub>3</sub>) nanoparticles using Aspalathus linearis natural extracts: structural, morphological, optical and electrochemistry study’, *Applied Surface Science*. Elsevier B.V., 446(July), pp. 250–257. doi: 10.1016/j.apsusc.2017.12.161.
- Meenu, B. *et al.* (2015) ‘Impatiens balsamina: An overview’, *Journal of Chemical and Pharmaceutical Research*, 7(9), pp. 16–21.
- Miyauchi, M. *et al.* (2010) ‘Single crystalline zinc stannate nanoparticles for efficient photo-electrochemical devices’, *Chemical Communications*, 46(9), pp. 1529–1531. doi: 10.1039/b921010e.
- Moongkarndi, P. *et al.* (2004) ‘Antiproliferation, antioxidation and induction of apoptosis by Garcinia mangostana (mangosteen) on SKBR3 human breast cancer cell line’, *Journal of Ethnopharmacology*, 90, pp. 161–166. doi: 10.1016/j.jep.2003.09.048.
- Nava, O. J. *et al.* (2017) ‘Influence of Camellia sinensis extract on zinc oxide nanoparticle green synthesis’, *Journal of Molecular Structure*, 1134, pp. 121–125. doi: 10.1016/j.molstruc.2016.12.069.
- Nishanthi, R. *et al.* (2019) ‘Green synthesis and characterization of bioinspired

- silver, gold and platinum nanoparticles and evaluation of their synergistic antibacterial activity after combining with different classes of antibiotics', *Materials Science & Engineering C*. Elsevier B.V, 96(march), pp. 693–707. doi: 10.1016/j.msec.2018.11.050.
- Nunez, J. et al. (2016) 'Photocatalytic H<sub>2</sub> production from aqueous methanol solutions using metal-co-catalysed Zn<sub>2</sub>SnO<sub>4</sub> nanostructures', *Applied Catalysis B: Environmental*, 191, pp. 106–115. doi: 10.1016/j.apcatb.2016.03.020.
- Obolskiy, D. et al. (2009) 'Garcinia mangostana L.: a phytochemical and pharmacological review', *Phytotherapy Research*, 23(8), pp. 1047–1065. doi: 10.1002/ptr.2730.
- Ovalle-Magallanes, B., Eugenio-Pérez, D. and Pedraza-Chaverri, J. (2017) 'Medicinal properties of mangosteen (*Garcinia mangostana* L.): A comprehensive update', *Food and Chemical Toxicology*. Elsevier Ltd, 109(1), pp. 102–122. doi: 10.1016/j.fct.2017.08.021.
- Park, J. S., Ahn, E.-Y. and Park, Y. (2017) 'Asymmetric dumbbell-shaped silver nanoparticles and spherical gold nanoparticles green-synthesized by mangosteen (*Garcinia mangostana*) pericarp waste extracts', *International Journal of Nanomedicine*, 12, pp. 6895–6908. doi: <http://dx.doi.org/10.2147/IJN.S140190>.
- Phumying, S. et al. (2013) 'Aloe vera plant-extracted solution hydrothermal synthesis and magnetic properties of magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles', *Applied Physics A*, 111, pp. 1187–1193. doi: 10.1007/s00339-012-7340-5.
- Ragupathi, C. et al. (2013) 'Catalytic properties of nanosized zinc aluminates prepared by green process using *Opuntia dilenii* haw plant extract', *Chinese Journal of Catalysis*. Dalian Institute of Chemical Physics, the Chinese Academy of Sciences, 34(10), pp. 1951–1958. doi: 10.1016/S1872-2067(12)60682-2.
- Ragupathi, C et al. (2013) 'Phytosynthesis of nano ZnAl<sub>2</sub>O<sub>4</sub> by using Sesamum (*Sesamum indicum* L.) optical and catalytic properties', *Journal of Nanoscience and Nanotechnology*, 13, pp. 1–9. doi: 10.1166/jnn.2013.7922.
- Ragupathi, C., Kennedy, L. J. and Vijaya, J. J. (2013) 'A new approach: Synthesis, characterization and optical studies of nano-zinc aluminate', *Advanced Powder Technology*. The Society of Powder Technology Japan, 25(1), pp. 267–273. doi: 10.1016/j.apt.2013.04.013.
- Rajakannu, S. et al. (2015) 'Original research article biosynthesis of silver nanoparticles using *Garcinia mangostana* fruit extract and their antibacterial, antioxidant activity', *International Journal of Current Microbiology and Applied Sciences*, 4(1), pp. 944–952.

- Rajendran, R. *et al.* (2014) ‘Antimicrobial activity of Impatiens balsamina plant extract’, *World Journal of Pharmacy and Pharmaceutical Sciences*, 3(7), pp. 1280–1286.
- Rasli, N. I., Basri, H. and Harun, Z. (2020) ‘Zinc oxide from aloe vera extract: two-level factorial screening of biosynthesis parameters’, *Heliyon*. Elsevier Ltd, 6, pp. 1–8. doi: 10.1016/j.heliyon.2020.e03156.
- Raza, M. A. *et al.* (2018) ‘Optical CO<sub>2</sub> gas sensing based on TiO<sub>2</sub> thin films of diverse thickness decorated with silver nanoparticles’, *Advances in Materials Science and Engineering*, 2018, pp. 1–12. doi: <https://doi.org/10.1155/2018/2780203>.
- Roopan, S. M. *et al.* (2012) ‘Acaricidal, insecticidal, and larvicidal efficacy of aqueous extract of Annona squamosa L peel as biomaterial for the reduction of palladium salts into nanoparticles’, *Colloids and Surfaces B: Biointerfaces*. Elsevier B.V., 92, pp. 209–212. doi: 10.1016/j.colsurfb.2011.11.044.
- Roy, K., Ghosh, C. K. and Sarkar, C. K. (2017) ‘Degradation of toxic textile dyes and detection of hazardous Hg<sup>2+</sup> by low-cost bioengineered copper nanoparticles synthesized using Impatiens balsamina leaf extract’, *Materials Research Bulletin*. Elsevier Ltd. doi: 10.1016/j.materresbull.2017.06.016.
- Sakunphueak, A. and Panichayupakaranant, P. (2012) ‘Comparison of antimicrobial activities of naphthoquinones from Impatiens balsamina’, *Natural Product Research*, 26(12), pp. 1119–1124 Downloaded. doi: 10.1080/14786419.2010.551297.
- Sangeetha, G., Rajeshwari, S. and Venkatesh, R. (2011) ‘Green synthesis of zinc oxide nanoparticles by aloe barbadensis miller leaf extract: Structure and optical properties’, *Materials Research Bulletin*. Elsevier Ltd, 46(12), pp. 2560–2566. doi: 10.1016/j.materresbull.2011.07.046.
- Senthilkumar, S. R. and Sivakumar, T. (2014) ‘Green tea (*Camellia sinensis*) mediated synthesis of zinc oxide (ZnO) nanoparticles and studies on their antimicrobial activities’, *International Journal of Pharmacy and Pharmaceutical Sciences*, 6(6), pp. 461–465.
- Shafey, A. M. El (2020) ‘Green synthesis of metal and metal oxide nanoparticles from plant leaf extracts and their applications: A review’, *Green Processing and Synthesis*, 9, pp. 304–339. doi: 10.1515/gps-2020-0031.
- Shi, L. and Dai, Y. (2013) ‘Synthesis and photocatalytic activity of Zn<sub>2</sub>SnO<sub>4</sub> nanotube arrays’, *Journal of Materials Chemistry A*, 1(41), pp. 12981–12986. doi: 10.1039/c3ta1238j.
- Silva, L. P., Reis, I. G. and Bonatto, C. C. (2015) ‘Green synthesis of metal

- nanoparticles by plants: Current trends and challenges', in *Green Processes for Nanotechnology*, pp. 259–275. doi: 10.1007/978-3-319-15461-9.
- Song, J. Y., Jang, H. and Kim, B. S. (2009) 'Biological synthesis of gold nanoparticles using Magnolia kobus and Diopyros kaki leaf extracts', 44, pp. 1133–1138. doi: 10.1016/j.procbio.2009.06.005.
- Sujitha, M. V and Kannan, S. (2013) 'Green synthesis of gold nanoparticles using Citrus fruits (Citrus limon, Citrus reticulata and Citrus sinensis) aqueous extract and its characterization', *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. Elsevier B.V., 102, pp. 15–23. doi: 10.1016/j.saa.2012.09.042.
- Sun, S. and Liang, S. (2017) 'Morphological zinc stannate: synthesis, fundamental properties and applications', *Journal of Materials Chemistry A*, 5(39), pp. 20534–20560. doi: 10.1039/b000000x.
- Suttirak, W. and Manurakchinakorn, S. (2014) 'In vitro antioxidant properties of mangosteen peel extract', *Journal of Food Science and Technology*, 51(12), pp. 3546–3558. doi: 10.1007/s13197-012-0887-5.
- Testino, A. *et al.* (2007) 'Optimizing the photocatalytic properties of hydrothermal TiO<sub>2</sub> by the control of phase composition and particle morphology. A systematic approach', *Journal of the American Chemical Society*, 129(12), pp. 3564–3575. doi: 10.1021/ja067050+.
- Venkateswarlu, S. *et al.* (2013) 'Biogenic synthesis of Fe<sub>3</sub>O<sub>4</sub> magnetic nanoparticles using plantain peel extract', *Materials Letters*. Elsevier, 100, pp. 241–244. doi: 10.1016/j.matlet.2013.03.018.
- Wahyuni, S., Syukri, S. and Arief, S. (2019) 'Green synthesis of Ag/TiO<sub>2</sub> nanocomposite assisted by Gambier leaf (*Uncaria gambir Roxb*) extract', *Jurnal Kimia Sains dan Aplikasi*, 22(6), pp. 250–255. doi: [https://doi.org/10.14710/jksa.22.6.250-255 Ar.](https://doi.org/10.14710/jksa.22.6.250-255)
- Walker, E. B. (2007) 'Original paper HPLC analysis of selected xanthones in mangosteen fruit', *Journal of Separation Science*, 30, pp. 1229–1234. doi: 10.1002/jssc.200700024.
- Widiyandari, H., Umiati, N. A. K. and Herdianti, R. D. (2018) 'Synthesis and photocatalytic property of zinc oxide (ZnO) fine particle using flame spray pyrolysis method synthesis and photocatalytic property of zinc oxide (ZnO) fine particle using flame spray pyrolysis method', *Journal of Physics: Conference Series*, 1025, pp. 1–8. doi: 10.1088/1742-6596/1025/1/012004.
- Xia, J. *et al.* (2018) 'Zn<sub>2</sub>SnO<sub>4</sub>-carbon cloth freestanding flexible anodes for high-performance lithium-ion batteries', *Materials and Design*, 156, pp. 272–

277. doi: 10.1016/j.matdes.2018.06.056.

- Xiao, L. *et al.* (2018) ‘Enhancing the performance of nanostructured ZnO as an anode material for lithium-ion batteries by polydopamine-derived carbon coating and confined crystallization’, *Journal of Alloys and Compounds*. Elsevier B.V, 764, pp. 545–554. doi: 10.1016/j.jallcom.2018.06.081.
- Xu, T.-T. *et al.* (2018) ‘Enhanced H<sub>2</sub>S gas-sensing performance of Zn<sub>2</sub>SnO<sub>4</sub> lamellar micro-spheres’, *Frontiers in Chemistry*, 6(165), pp. 1–5. doi: 10.3389/fchem.2018.00165.
- Yan, N. *et al.* (2013) ‘Hollow porous SiO<sub>2</sub> nanocubes towards high-performance anodes for lithium-ion batteries’, *Scientific Reports*, 3(1568), pp. 1–6. doi: 10.1038/srep01568.
- Yang, X. *et al.* (2001) ‘Isolation of an antimicrobial compound from Impatiens balsamina L. using bioassay-guided fractionation’, *Phytotherapy Research*, 15, pp. 676–680. doi: 10.1002/ptr.906.
- Ye, Q., Zhou, F. and Liu, W. (2011) ‘Bioinspired catecholic chemistry for surface modification’, *Chemical Society Reviews*, 40, pp. 4244–4258. doi: 10.1039/c1cs15026j.
- Young, D. L. *et al.* (2002) ‘Growth and characterization of radio frequency magnetron sputter-deposited zinc stannate, Zn<sub>2</sub>SnO<sub>4</sub>, thin films’, *Journal of Applied Physics*, 92(1), pp. 310–319. doi: 10.1063/1.1483104.
- Yu, L. *et al.* (2007) ‘Phenolics from hull of Garcinia mangostana fruit and their antioxidant activities’, *Food Chemistry*, 104, pp. 176–181. doi: 10.1016/j.foodchem.2006.11.018.
- Yudha, S. *et al.* (2013) ‘Green synthesis of silver nanoparticles using aqueous rinds extract of Brucea javanica (L.) Merr at ambient temperature’, *Materials Letters*. Elsevier, 97, pp. 181–183. doi: 10.1016/j.matlet.2013.01.114.
- Yudha, S. *et al.* (2015) ‘Production of gold nanoparticles (AuNPs) from chloroaurate ions using aqueous extract of air-dried Premna obtusifolia leaves .’, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6(4), pp. 1802–1806.
- Yuvakkumar, R. *et al.* (2014) ‘Novel green synthetic strategy to prepare ZnO nanocrystals using rambutan ( Nephelium lappaceum L .) peel extract and its antibacterial applications’, *Materials Science & Engineering C*. Elsevier B.V., 41, pp. 17–27. doi: 10.1016/j.msec.2014.04.025.
- Zeng, J. *et al.* (2008) ‘Transformation process and photocatalytic activities of hydrothermally synthesized Zn<sub>2</sub>SnO<sub>4</sub> nanocrystals’, *The Journal of Physical Chemistry C*, 112, pp. 4159–4167. doi:

[https://doi.org/10.1021/jp7113797.](https://doi.org/10.1021/jp7113797)

- Zhang, Y. *et al.* (2010) ‘High performance ultraviolet photodetectors based on an individual Zn<sub>2</sub>SnO<sub>4</sub> single crystalline nanowire’, *Journal of Materials Chemistry*, 20, pp. 9858–9860. doi: 10.1039/c0jm02872j.
- Zhao, G. *et al.* (2019) ‘Low-cost and high-performance ZnO nanoclusters gas sensor based on new-type FTO electrode for the low-concentration H<sub>2</sub>S gas detection’, *Nanomaterials*, 9(3), pp. 1–10. doi: 10.3390/nano9030435.
- Zhao, Q. *et al.* (2016) ‘Synthesis of hollow cubic Zn<sub>2</sub>SnO<sub>4</sub>sub-microstructures with enhanced photocatalytic performance’, *Journal of Alloys and Compounds*. Elsevier Ltd, 671, pp. 328–333. doi: 10.1016/j.jallcom.2016.01.264.
- Zhao, Y. *et al.* (2014) ‘Bandgap tunable Zn<sub>2</sub>SnO<sub>4</sub> nanocubes through thermal effect and their outstanding ultraviolet light photoresponse’, *Scientific Reports*, 4(6847), pp. 1–7. doi: 10.1038/srep06847.
- Zhu, H. *et al.* (2006) ‘Hydrothermal synthesis of Zn<sub>2</sub>SnO<sub>4</sub> nanorods in the diameter regime of sub-5 nm and their properties’, *The Journal of Physical Chemistry B*, 110, pp. 7631–7634. doi: 10.1021/jp060304t.

