

DAFTAR PUSTAKA

- Adam, R. E., Pozina, G., Willander, M., & Nur, O. (2018). Synthesis of ZnO nanoparticles by coprecipitation method for solar driven photodegradation of Congo red dye at different pH. *Photonics and Nanostructures - Fundamentals and Applications*, 32(September), 11–18. <https://doi.org/10.1016/j.photonics.2018.08.005>
- Agarwal, H., Venkat Kumar, S., & Rajeshkumar, S. (2017). A review on green synthesis of zinc oxide nanoparticles – An eco-friendly approach. *Resource-Efficient Technologies*, 3(4), 406–413. <https://doi.org/10.1016/j.reffit.2017.03.002>
- Akbarian, M., Mahjoub, S., Elahi, S. M., Zabihi, E., & Tashakkorian, H. (2018). *Urtica dioica* L. extracts as a green catalyst for the biosynthesis of zinc oxide nanoparticles: Characterization and cytotoxic effects on fibroblast and MCF-7 cell lines. *New Journal of Chemistry*, 42(8), 5822–5833. <https://doi.org/10.1039/c8nj00496j>
- Ali, M. I., Sharma, G., Kumar, M., & Jasuja, N. D. (2015). Biological Approach of Zinc Oxide Nanoparticles Synthesis by Cell Free Extract of *Spirulina Platensis*. 2531| *International Journal of Current Engineering and Technology*, 5(4), 2531–2534. <http://inpressco.com/category/ijcet>
- Alipour, S., Kalari, S., Morowvat, M. H., Sabahi, Z., & Dehshahri, A. (2021). *Green Synthesis of Selenium Nanoparticles by Cyanobacterium Spirulina platensis (abdf2224): Cultivation Condition Quality Controls. 2021.*
- Ameen, F., Abdullah, M. M. S., Al-homaidan, A. A., Al-lohedan, H. A., Al-ghanayem, A. A., & Almansob, A. (2020). Fabrication of silver nanoparticles employing the cyanobacterium *Spirulina platensis* and its bactericidal effect against opportunistic nosocomial pathogens of the respiratory tract. *Journal of Molecular Structure*, 1217, 128392. <https://doi.org/10.1016/j.molstruc.2020.128392>
- Aye Mar, A., Thiri Kyaw, M., Lin Oo, W., & Myat Thaw, M. (2018). *Applications of Silver Nanoparticles and Zinc Oxide Nanoparticles from Spirulina platensis*. 7(2), 179–193.
- Azizi, S., Ahmad, M. B., Namvar, F., & Mohamad, R. (2014). Green biosynthesis and characterization of zinc oxide nanoparticles using brown marine macroalga *Sargassum muticum* aqueous extract. *Materials Letters*, 116, 275–277. <https://doi.org/10.1016/j.matlet.2013.11.038>
- Badarinath, A. V, Rao, K. M., Chetty, C. M. S., Ramkanth, S., Rajan, T. V. S., & Gnanaprakash, K. (2010). *A Review on In-vitro Antioxidant Methods : Comparisons , Correlations and Considerations*. 2(2), 1276–1285.
- Bakhtiari, S., Jafari, S., Taheri, J. B., Kashi, T. S. J., Namazi, Z., Iman, M., & Poorberafeyi, M.

- (2019). The effects of cinnamaldehyde (Cinnamon derivatives) and nystatin on candida albicans and candida glabrata. *Open Access Macedonian Journal of Medical Sciences*, 7(7), 1067–1070. <https://doi.org/10.3889/oamjms.2019.245>
- Balaji, S., & Kumar, M. B. (2017). Facile green synthesis of zinc oxide nanoparticles by Eucalyptus globulus and their photocatalytic and antioxidant activity. *Advanced Powder Technology*, 28(3), 785–797. <https://doi.org/10.1016/j.appt.2016.11.026>
- Banerjee, S., Saikia, J. P., Kumar, A., & Konwar, B. K. (2010). Antioxidant activity and haemolysis prevention efficiency of polyaniline nanofibers. *Nanotechnology*, 21(4). <https://doi.org/10.1088/0957-4484/21/4/045101>
- Baskoutas, S. (2018). *Zinc Oxide Nanostructure: Synthesis and Characterization*. Materials.
- Brinker, C. J. & Scherer, G. W. (1990). Sol-Gel Science (The Physics and Chemistry of Sol-Gel Processing). In *Academic Press, Inc.* <https://doi.org/10.5940/jcrsj.31.82>
- Buwono, N. R., & Nurhasanah, R. Q. (2018). Trends in the uses of Spirulina Microalga: A mini-review. *Jurnal Ilmiah Perikanan Dan Kelautan*, 10(1), 106–111.
- Çalışkan, G., Mutaf, T., Öncel, S. Ş., & Elibol, M. (2020). Green synthesis of metal nanoparticles using microalga galdieria sp. *IFMBE Proceedings*, 73, 219–224. https://doi.org/10.1007/978-3-030-17971-7_34
- Cheperli, A.-M., Mokaber-Esfahani, M., & Farhad, A. T. (2022). *Biosynthesis, characterization and antimicrobial activities of zinc oxide nanoparticles from leaf & seed extracts of Malva neglecta Wallr.* <https://doi.org/10.21203/rs.3.rs-1286975/v1>
- Claudiel, J. P., Auffret, N., Leccia, M. T., Poli, F., Corvec, S., & Dréno, B. (2019). Staphylococcus epidermidis: A Potential New Player in the Physiopathology of Acne? *Dermatology*, 235(4), 287–294. <https://doi.org/10.1159/000499858>
- Dadi, R., Azouani, R., Traore, M., Mielcarek, C., & Kanaev, A. (2019). Antibacterial activity of ZnO and CuO nanoparticles against gram positive and gram negative strains. *Materials Science and Engineering C*, 104(March), 109968. <https://doi.org/10.1016/j.msec.2019.109968>
- Dahoumane, S. A., Mechouet, M., Alvarez, F. J., Agathos, S. N., & Jeffryes, C. (2016). Microalgae: An outstanding tool in nanotechnology. *Revista Bionatura*, 1(4), 196–201. <https://doi.org/10.21931/RB/2016.01.04.7>
- Dahoumane, S. A., Mechouet, M., Wijesekera, K., Filipe, C. D. M., Sicard, C., Bazylnski, D. A., & Jeffryes, C. (2017). Algae-mediated biosynthesis of inorganic nanomaterials as a promising route in nanobiotechnology-a review. *Green Chemistry*, 19(3), 552–587. <https://doi.org/10.1039/c6gc02346k>

- Darvin, M. E., Jung, S., Schanzer, S., Richter, H., Kurth, E., Thiede, G., Meinke, M. C., & Lademann, J. (2015). Influence of the systemic application of blue-green *Spirulina platensis* algae on the cutaneous carotenoids and elastic fibers in vivo. *Cosmetics*, 2(3), 302–312. <https://doi.org/10.3390/cosmetics2030302>
- Dias, N., Silva, C. D. S., Araújo, A. R. De, Maria, J., Souza, T., Henrique, P., Veloso, D. H., Cabral, W. F., Eaton, P., Roberto, J., & Almeida, D. S. De. (2020). *Mechanisms of action of antimicrobial peptides ToAP2 and*. 1–14. <https://doi.org/10.1038/s41598-020-67041-2>
- Ekantari, N., Marsono, Y., Pranoto, Y., & Harmayani, E. (2017). The Effect of Cultivation Medium in Marine and Fresh Water on Chemical Composition and Functional Properties of Dry Biomass *Spirulina platensis*. *Agritech*, 37(2), 173–182.
- El-belely, E. F., Farag, M. M. S., Said, H. A., Amin, A. S., Azab, E., Gobouri, A. A., & Fouda, A. (2021). Green Synthesis of Zinc Oxide Nanoparticles (ZnO-NPs) Using *Arthrospira platensis* (Class: Cyanophyceae) and Evaluation of their Biomedical Activities. *Nanomaterials*, 4 January 2021.
- El-sheekh, M. M., Morsi, H. H., Hassan, L. H. S., & Ali, S. S. (2022). The efficient role of algae as green factories for nanotechnology and their vital applications. *Microbiological Research*, 263(April), 127111. <https://doi.org/10.1016/j.micres.2022.127111>
- Emelda, Safitri, A. E., & Fatmawati, A. (2021). Aktivitas Inhibisi Ekstrak Etanolik *Ulva lactuca* terhadap Bakteri *Staphylococcus aureus*. *Pharmaceutical Journal of Indonesia*, 7(1), 43–48.
- Fawcett, D., Verduin, J. J., Shah, M., Sharma, S. B., & Poinern, G. E. J. (2017). A Review of Current Research into the Biogenic Synthesis of Metal and Metal Oxide Nanoparticles via Marine Algae and Seagrasses. *Journal of Nanoscience*, 2017, 1–15. <https://doi.org/10.1155/2017/8013850>
- Gerbreders, V., Krasovska, M., Sledovskis, E., Gerbreders, A., Mihailova, I., Tamanis, E., & Ogurcovs, A. (2020). Hydrothermal synthesis of ZnO nanostructures with controllable morphology change. *CrystEngComm*, 22(8), 1346–1358. <https://doi.org/10.1039/c9ce01556f>
- Hamida, R. S., Abdelmeguid, N. E., Ali, M. A., Bin-Meferij, M. M., & Khalil, M. I. (2020). Synthesis of silver nanoparticles using a novel cyanobacteria *desertifilum* sp. Extract: Their antibacterial and cytotoxicity effects. *International Journal of Nanomedicine*, 15, 49–63. <https://doi.org/10.2147/IJN.S238575>
- Hamza, W. T., Taha, H. M., & Abouelkheir, S. S. (2018). *Spirulina platensis* synthesized gold nanoparticles (AuNPs) as an antibacterial and antioxidant agent. 14(2), 385–391. <https://doi.org/10.5455/egyjebb.201812170853>
- Housecroft, C. E., & Sharpe, A. G. (1935). The alkali metals. In *Nature* (Vol. 135, Issue 3403).

<https://doi.org/10.1016/b978-0-08-011207-7.50012-8>

- Hulkoti, N. I., & Taranath, T. C. (2014). Biosynthesis of nanoparticles using microbes-A review. *Colloids and Surfaces B: Biointerfaces*, 121, 474–483. <https://doi.org/10.1016/j.colsurfb.2014.05.027>
- Javed, R., Zia, M., Naz, S., Aisida, S. O., Ain, N., & Ao, Q. (2020). Role of capping agents in the application of nanoparticles in biomedicine and environmental remediation: recent trends and future prospects. *Journal of Nanobiotechnology*, 1–15. <https://doi.org/10.1186/s12951-020-00704-4>
- Jiang, J., Pi, J., & Cai, J. (2018). The Advancing of Zinc Oxide Nanoparticles for Biomedical Applications[1] J. Jiang, J. Pi, and J. Cai, “The Advancing of Zinc Oxide Nanoparticles for Biomedical Applications,” vol. 2018, 2018. *Bioinorganic Chemistry and Applications, 2018*, 18.
- Joe, A., Park, S. H., Shim, K. D., Kim, D. J., Jhee, K. H., Lee, H. W., Heo, C. H., Kim, H. M., & Jang, E. S. (2017). Antibacterial mechanism of ZnO nanoparticles under dark conditions. *Journal of Industrial and Engineering Chemistry*, 45, 430–439. <https://doi.org/10.1016/j.jiec.2016.10.013>
- Kairyte, K., Kadys, A., & Luksiene, Z. (2013). Antibacterial and antifungal activity of photoactivated ZnO nanoparticles in suspension. *Journal of Photochemistry and Photobiology B: Biology*, 128, 78–84. <https://doi.org/10.1016/j.jphotobiol.2013.07.017>
- Kalpna, V. N., Kataru, B. A. S., Sravani, N., Vigneshwari, T., Panneerselvam, A., & Devi Rajeswari, V. (2018). Biosynthesis of zinc oxide nanoparticles using culture filtrates of *Aspergillus niger*: Antimicrobial textiles and dye degradation studies. *OpenNano*, 3(March), 48–55. <https://doi.org/10.1016/j.onano.2018.06.001>
- Kargozar, S., & Mozafari, M. (2018). Nanotechnology and Nanomedicine: Start small, think big. *Materials Today: Proceedings*, 5(7), 15492–15500. <https://doi.org/10.1016/j.matpr.2018.04.155>
- Khalafi, T., Buazar, F., & Ghanemi, K. (2019). Phycosynthesis and Enhanced Photocatalytic Activity of Zinc Oxide Nanoparticles Toward Organosulfur Pollutants. *Scientific Reports*, 9(1), 1–10. <https://doi.org/10.1038/s41598-019-43368-3>
- Kong, W., Shen, B., Ma, J., Kong, J., & Feng, S. (2022). Pyrolysis of *Spirulina platensis*, *Tetrademus obliquus* and *Chlorella vulgaris* by TG-FTIR and Py-GC / MS : Kinetic analysis and pyrolysis behaviour. *Energy*, 244, 123165. <https://doi.org/10.1016/j.energy.2022.123165>
- Lake, K., Thaw, M. M., Aung, S. T., & Khine, M. Y. (2020). *Nano Biomedical Applications of Zinc Oxide Nanoparticles from Spirulina Platensis Poster 2020-017*. 2002, 2002.

- Li, D., Li, Y., Zhang, Y., & Chang, F. (2019). Facile synthesis of three-dimensional ZnO hierarchical microspheres composed of well-ordered nanorods by hydrothermal method. *Results in Physics*, 12, 953–958. <https://doi.org/10.1016/j.rinp.2018.12.040>
- Meilina, N. E., & Hasanah, N. A. (2018). Aktivitas Antibakteri Ekstrak Kulit Manggis (*Garcinia mangostana* L.) Terhadap Bakteri Penyebab Jerawat. *Jurnal Farmaka*, 16(2), 322–328.
- Meng, L. Y., Wang, B., Ma, M. G., & Lin, K. L. (2016). The progress of microwave-assisted hydrothermal method in the synthesis of functional nanomaterials. *Materials Today Chemistry*, 1–2, 63–83. <https://doi.org/10.1016/j.mtchem.2016.11.003>
- Miazeck, K., Iwanek, W., Remacle, C., Richel, A., & Goffin, D. (2015). Effect of metals, metalloids and metallic nanoparticles on microalgae growth and industrial product biosynthesis: A review. *International Journal of Molecular Sciences*, 16(10), 23929–23969. <https://doi.org/10.3390/ijms161023929>
- Michael Otto, P. D. (2008). Staphylococcus epidermidis – the “accidental” pathogen Michael. *Nat Rev Microbiol*, 7(8), 555–567. <https://doi.org/10.1038/nrmicro2182>. Staphylococcus
- Mirzaei, H., & Darroudi, M. (2017). Zinc oxide nanoparticles: Biological synthesis and biomedical applications. *Ceramics International*, 43(1), 907–914. <https://doi.org/10.1016/j.ceramint.2016.10.051>
- Mohseniazar, M., Barin, M., Zarredar, H., Alizadeh, S., & Shanehbandi, D. (2011). Potential of microalgae and lactobacilli in biosynthesis of silver nanoparticles. *BioImpacts*, 1(3), 149–152. <https://doi.org/10.5681/bi.2011.023>
- Motazed, R., Rahaiee, S., & Zare, M. (2020). Bioorganic Chemistry Efficient biogenesis of ZnO nanoparticles using extracellular extract of *Saccharomyces cerevisiae*: Evaluation of photocatalytic, cytotoxic and other biological activities. *Bioorganic Chemistry*, 101(May), 103998. <https://doi.org/10.1016/j.bioorg.2020.103998>
- Moussa, S., El-refaey, A. A., El-gamal, A. D., & Beley, E. El. (2022). Algae-mediated biosynthesis of zinc oxide nanoparticles from *Cystoseira crinite* (Fucales; Sargassaceae) and its antimicrobial and antioxidant activities. November 2021. <https://doi.org/10.21608/EJCHEM.2021.87722.4231>
- Mydeen, S. S., Kumar, R. R., Kottaisamy, M., & Vasantha, V. S. (2020). Biosynthesis of ZnO nanoparticles through extract from *Prosopis juliflora* plant leaf: Antibacterial activities and a new approach by rust-induced photocatalysis. *Journal of Saudi Chemical Society*, 24(5), 393–406. <https://doi.org/10.1016/j.jscs.2020.03.003>
- Namvar, A. E., Bastarahang, S., Abbasi, N., Ghehi, G. S., Farhadbakhtiaran, S., Arezi, P., Hosseini, M., Baravati, S. Z., Jokar, Z., & Chermahin, S. G. (2014). Clinical characteristics

of *Staphylococcus epidermidis*: a systematic review. *GMS Hygiene and Infection Control*, 9(3), Doc23. <https://doi.org/10.3205/dgkh000243>

Napitupulu, H. G., Rumengan, I. F. M., Wullur, S., Ginting, E. L., Rimper, J. R. T. S. L., & Toloh, B. H. (2019). *Bacillus* sp. sebagai Agensia Pengurai dalam Pemeliharaan *Brachionus rotundiformis* yang Menggunakan Ikan Mentah sebagai Sumber Nutrisi. *Jurnal Ilmiah Platax*, 7(1), 158–169. <http://ejournal.unsrat.ac.id/index.php/platax>

Ortiz-Casas, B., Galdámez-Martínez, A., Gutiérrez-Flores, J., Baca Ibañez, A., Kumar Panda, P., Santana, G., de la Vega, H. A., Suar, M., Gutiérrez Rodelo, C., Kaushik, A., Kumar Mishra, Y., & Dutt, A. (2021). Bio-acceptable 0D and 1D ZnO nanostructures for cancer diagnostics and treatment. *Materials Today*, 50(xx), 533–569. <https://doi.org/10.1016/j.mattod.2021.07.025>

Parashar, M., Shukla, V. K., & Singh, R. (2020). Metal oxides nanoparticles via sol–gel method: a review on synthesis, characterization and applications. *Journal of Materials Science: Materials in Electronics*, 31(5), 3729–3749. <https://doi.org/10.1007/s10854-020-02994-8>

Rahman, A., Kumar, S., & Nawaz, T. (2019). Biosynthesis of nanomaterials using algae. In *Microalgae Cultivation for Biofuels Production*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-817536-1.00017-5>

Rajakumar, G., Thiruvengadam, M., Mydhili, G., Gomathi, T., & Chung, I. M. (2018). Green approach for synthesis of zinc oxide nanoparticles from *Andrographis paniculata* leaf extract and evaluation of their antioxidant, anti-diabetic, and anti-inflammatory activities. *Bioprocess and Biosystems Engineering*, 41(1), 21–30. <https://doi.org/10.1007/s00449-017-1840-9>

Ribut, S. H., Che Abdullah, C. A., Mustafa, M., Mohd Yusoff, M. Z., & Ahmad Azman, S. N. (2019). Influence of pH variations on zinc oxide nanoparticles and their antibacterial activity. *Materials Research Express*, 6.

Rilda, Y., Ayuni, P. V. P., Tursiah, I. S., Syukri, S., Refinel, Putri, Y. E., Agustien, A., & Pardi, H. (2021). Hibrid multilayer of zno-sio₂/chitosan nanorods by poly(Diallyldimethylammonium chloride) (pdda) and poly(sodium 4-styrenesulfonate) (pss). *Rasayan Journal of Chemistry*, 14(2), 1028–1034. <https://doi.org/10.31788/RJC.2021.1426210>

Rilda, Y., Damara, D., Putri, Y. E., Refinel, R., Agustien, A., & Pardi, H. (2020). *Pseudomonas aeruginosa* antibacterial textile cotton fiber construction based on ZnO–TiO₂ nanorods template. *Heliyon*, 6(4). <https://doi.org/10.1016/j.heliyon.2020.e03710>

Rilda, Y., Damara, D., Syukri, Putri, Y. E., Refinel, & Agustien, A. (2019). Synthesis of ZnO–TiO₂ /Chitosan Nanorods by Using Precipitation Methods and Studying Their Structures and Optics Properties at Different Precursor Molar Compositions. *IOP Conference Series: Earth*

and Environmental Science, 217(1). <https://doi.org/10.1088/1755-1315/217/1/012015>

- Rilda, Y., Rinaldi, R., Syukri, S., Armaini, A., & Refinel, R. (2022). *Biosynthesis of Zinc Oxide (ZnO) Using the Biomass of Aspergillus niger to Impart Cotton Fabric with Antimicrobial Properties*. 202103824(2016), 1–9. <https://doi.org/10.1002/slct.202103824>
- Rilda, Y., Safitri, R., Agustien, A., Nazir, N., Syafiuddin, A., & Nur, H. (2017). Enhancement of Antibacterial Capability of Cotton Textiles Coated with TiO₂–SiO₂/Chitosan Using Hydrophobization. *Journal of the Chinese Chemical Society*, 64(11), 1347–1353. <https://doi.org/10.1002/jccs.201700165>
- Rilda, Y., Safitri, R., Putri, Y. E., Refinel, R., Agustien, A., Leaw, W. L., & Nur, H. (2019). Hexamethyldisiloxane-modified ZnO-SiO₂-coated superhydrophobic textiles for antibacterial application. *Journal of the Chinese Chemical Society*, 66(6), 594–599. <https://doi.org/10.1002/jccs.201800324>
- Saran, S., Sharma, G., Kumar, M., & Ali, M. I. (2017). Biosynthesis of Copper Oxide Nanoparticles Using Cyanobacteria *Spirulina Platensis* and Its Antibacterial Activity. *International Journal of Pharmaceutical Sciences and Research*, 8(9), 3887–3892. [https://doi.org/10.13040/IJPSR.0975-8232.8\(9\).3887-92](https://doi.org/10.13040/IJPSR.0975-8232.8(9).3887-92)
- Sathishkumar, R. S., Sundaramanickam, A., Srinath, R., Ramesh, T., Saranya, K., Meena, M., & Surya, P. (2019). Green synthesis of silver nanoparticles by bloom forming marine microalgae *Trichodesmium erythraeum* and its applications in antioxidant , drug-resistant bacteria , and cytotoxicity activity. *Journal of Saudi Chemical Society*, 23(8), 1180–1191. <https://doi.org/10.1016/j.jscs.2019.07.008>
- Serra, E., Hidalgo-bastida, L. A., Verran, J., & Malic, S. (2018). Antifungal Activity of Commercial Essential Oils and Biocides against *Candida Albicans*. *Mdpi*, 1–12. <https://doi.org/10.3390/pathogens7010015>
- Sharma, G., Jasuja, N. D., Kumar, M., & Ali, M. I. (2015). *Biological Synthesis of Silver Nanoparticles by Cell-Free Extract of Spirulina platensis*. 2015.
- Sharma, P., Kumari, S., Ghosh, D., Yadav, V., Vij, A., Rawat, P., Kumar, S., Sinha, C., Saini, S., Sharma, V., Hassan, M. I., Srivastava, C. M., & Majumder, S. (2021). Capping agent-induced variation of physicochemical and biological properties of α -Fe₂O₃ nanoparticles. *Materials Chemistry and Physics*, 258(September 2020). <https://doi.org/10.1016/j.matchemphys.2020.123899>
- Sharmila, G., Thirumarimurugan, M., & Muthukumaran, C. (2018). Green synthesis of ZnO nanoparticles using *Tecoma castanifolia* leaf extract: Characterization and evaluation of its antioxidant, bactericidal and anticancer activities. *Microchemical Journal*, #pagerange#. <https://doi.org/10.1016/j.microc.2018.11.022>

- Sidhu, A. K., Verma, N., & Kaushal, P. (2022). *Role of Biogenic Capping Agents in the Synthesis of Metallic Nanoparticles and Evaluation of Their Therapeutic Potential*. 3(January), 1–17. <https://doi.org/10.3389/fnano.2021.801620>
- Singh, B. N., Kumar, A., Rawat, S., Khan, W., Naqvi, A. H., & Singh, B. R. (2014). *Biosynthesis of Stable Antioxidant ZnO Nanoparticles by Pseudomonas aeruginosa Rhamnolipids*. 9(9). <https://doi.org/10.1371/journal.pone.0106937>
- Sivakumara, P., Leeb, M., Kima, Y.-S., & Min Suk Shim. (2018). Photo-triggered antibacterial and anticancer activities of zinc oxide nanoparticles. *Journal of Material Chemistry B*. <https://doi.org/10.1039/C8TB00948A>
- Swidergall, M., Khalaji, M., Solis, N. V., Moyes, D. L., Drummond, R. A., Hube, B., Lionakis, M. S., Murdoch, C., Filler, S. G., & Naglik, J. R. (2019). Candidalysin Is Required for Neutrophil Recruitment and Virulence During Systemic *Candida albicans* Infection. *The Journal of Infectious Diseases*, 220(9), 1477–1488. <https://doi.org/10.1093/infdis/jiz322>
- Vilela, C., Pinto, R., Pinto, S., Marques, P., Silvestre, A., & Freire, C. (2014). Polysaccharide Based Hybrid Materials Metals and Metal Oxides, Graphene and Carbon Nanotubes. In *Springer* (Vol. 53, Issue 30).
- Vinayagam, R., Sharma, G., Murugesan, G., Pai, S., Gupta, D., Narasimhan, M. K., Kaviyarasu, K., Varadavenkatesan, T., & Selvaraj, R. (2022). Rapid photocatalytic degradation of 2, 4-dichlorophenoxy acetic acid by ZnO nanoparticles synthesized using the leaf extract of *Muntingia calabura*. *Journal of Molecular Structure*, 1263, 133127. <https://doi.org/10.1016/j.molstruc.2022.133127>
- Vora, J., Srivastava, A., & Modi, H. (2018). Antibacterial and antioxidant strategies for acne treatment through plant extracts. *Informatics in Medicine Unlocked*, 13(October 2017), 128–132. <https://doi.org/10.1016/j.imu.2017.10.005>
- Yavuzatmaca, M. (2010). *An eco-friendly process : Predictive modelling of copper adsorption from aqueous solution on Spirulina platensis*. January. <https://doi.org/10.1016/j.jhazmat.2009.08.057>
- Zare, M., Namratha, K., Byrappa, K., Surendra, D. M., Yallappa, S., & Hungund, B. (2017). Surfactant Properties Assisted Solvothermal Synthesis of ZnO Nanoparticles and Study of their Antimicrobial and Antioxidant. *Journal of Materials Science & Technology*. <https://doi.org/10.1016/j.jmst.2017.09.014>
- Zhao, X., Li, M., & Lou, X. (2014). Sol-gel assisted hydrothermal synthesis of ZnO microstructures: Morphology control and photocatalytic activity. *Advanced Powder Technology*, 25(1), 372–378. <https://doi.org/10.1016/j.appt.2013.06.004>

Zhu, X., Zhu, L., Chen, Y., & Tian, S. (2009). Acute toxicities of six manufactured nanomaterial suspensions to *Daphnia magna*. *Journal of Nanoparticle Research*, 11(1), 67–75. <https://doi.org/10.1007/s11051-008-9426-8>

