DAFTAR PUSTAKA

(1) Behera, A.; Mohapatra, S. S.; Verma, D. K. *Nanomaterials: Fundamental Principle and Applications*; 2019.

(2) Patidar, V.; Jain, P. Green Synthesis of TiO_2 Nanoparticle Using Moringa Oleifera Leaf Extract. *Int. Res. J. Eng. Technol.* 2017, *4* (3), 470–473.

(3) Kolahalam, L. A.; Kasi Viswanath, I. V.; Diwakar, B. S.; Govindh, B.; Reddy, V.; Murthy, Y. L. N. Review on Nanomaterials: Synthesis and Applications. *Mater. Today Proc.* 2019, *18* (August), 2182–2190.

(4) Nabi, G.; Qurat-ul-Aain; Khalid, N. R.; Tahir, M. B.; Rafique, M.; Rizwan, M.; Hussain, S.; Iqbal, T.; Majid, A. A Review on Novel Eco-Friendly Green Approach to Synthesis TiO_2 Nanoparticles Using Different Extracts. *J. Inorg. Organomet. Polym. Mater.* 2018, *28* (4), 1552–1564.

(5) Sajidah, H. B. N. Review : Differential Thermal Analysis (DTA), Differential Scanning Calorimetry (DSC), Thermal Gravimetric Analysis (TGA) Scanning Electron Microscopy (SEM) Dan Transmission Electr ... *Dep. Kim. Inst. Teknol. Sepuluh Nop.* 2017, No. June.

(6) Khofifah, S.; Iwantono; Awitudrus. Penumbuhan Nanopartikel Titanium Dioksida pada Substrat FTO dengan Metode Elektrodeposisi. *Angew. Chemie Int. Ed. 6(11), 951–952.* 2015, *2* (1), 281–287.

(7) Etebu, E.; Nwauzoma, A. B. A Review on Sweet Orange (*Citrus sinensis*)_ Health, Diseases and Management. *Am. J. Res. Commun.* 2014, *2* (2), 33–70.

(8) Mobeen Amanulla, A.; Sundaram, R. Green Synthesis of TiO_2 Nanoparticles Using Orange Peel Extract for Antibacterial, Cytotoxicity and Humidity Sensor Applications. *Mater. Today Proc.* 2019, *8*, 323–331.

(9) Goutam, S. P.; Saxena, G.; Singh, V.; Yadav, A. K.; Bharagava, R. N.; Thapa, K. B. Green Synthesis of TiO_2 Nanoparticles Using Leaf Extract of Jatropha Curcas L. for Photocatalytic Degradation of Tannery Wastewater. *Chem. Eng. J.* 2018, *336* (December 2017), 386–396.

(10) Rao, K. G.; Ashok, C.; Rao, K. V.; Chakra, C.; Rajendar, V. Synthesis Of TiO_2 Nanoparticles From Orange Fruit Waste. *Int. J. Multidiscip. Adv. Res. Trends* 2015, *II* (I), 82–90.

(11) Marshall, J. L. Solderability and Reliability. 1991, 173–222.

12) Ivanković, A. Review of 12 Principles of Green Chemistry in Practice. *Int. J. Sustain. Green Energy* 2017, *6* (3), 39.

(13) Devikala, S.; Abisharani, J. M.; Bharath, M. Biosynthesis of TiO_2 Nanoparticles from Caesalpinia Pulcherrima Flower Extracts. *Mater. Today Proc.* 2020, No. xxxx, 2–5.

(14) Wendri, N.; Rupiahsih, N. N.; Sumadiyasa, M. Biosintesis Nanopartikel Perak Menggunakan Ekstrak Daun Sambiloto: Optimasi Proses Dan Karakterisasi. *J. Sains Mater. Indones.* 2017, *18* (4), 162–166.

(15) Thunugunta, T.; Reddy, A. C.; Lakshmana Reddy, D. C. Green Synthesis of Nanoparticles: Current Prospectus. *Nanotechnol. Rev.* 2015, *4* (4), 303–323.

(16) Saravanan, A.; Kumar, P. S.; Karishma, S.; Vo, D. V. N.; Jeevanantham, S.; Yaashikaa, P. R.; George, C. S. A Review on Biosynthesis of Metal Nanoparticles and Its Environmental Applications. *Chemosphere* 2021, *264*, 128580.

(17) Manikandan, V.; Velmurugan, P.; Jayanthi, P.; Park, J. H.; Chang, W. S.; Park, Y. J.; Cho, M.; Oh, B. T. Biogenic Synthesis from Prunus × Yedoensis Leaf Extract, Characterization, and Photocatalytic and Antibacterial Activity of TiO_2 Nanoparticles. *Res. Chem. Intermed.* 2018, *44* (4), 2489–2502.

(18) Santhoshkumar, T.; Rahuman, A. A.; Jayaseelan, C.; Rajakumar, G.; Marimuthu, S.; Kirthi, A. V.; Velayutham, K.; Thomas, J.; Venkatesan, J.; Kim, S. K. Green Synthesis of Titanium Dioxide Nanoparticles Using Psidium Guajava Extract and Its Antibacterial and Antioxidant Properties. *Asian Pac. J. Trop. Med.* 2014, *7* (12), 968–976.

(19) Subhapriya, S.; Gomathipriya, P. Green Synthesis of Titanium Dioxide (TiO_2) Nanoparticles by Trigonella Foenum-Graecum Extract and Its Antimicrobial Properties. *Microb. Pathog.* 2018, *116* (December 2017), 215–220.

(20) Syaifullah. Karakterisasi Morfologi Organ Vegetatif Tanaman Jeruk Siam (*Citrus nobilis* Lour.) di Dua Karakterisasi Morfologi Organ Vegetatif Tanaman Jeruk Siam (*Citrus nobilis* Lour.). 2020.

(21) Devy, N. F.; Hardiyanto. Keragaman Jeruk Gunung Omeh (*Citrus nobilis* Lour.) Di Sumatera Barat Berdasarkan Marka RAPD (The Diversity of Gunung Omeh Citrus (*Citrus nobilis* Lour.) in West Sumatera Based on RAPD Marker). *J. Hortik.* 2017, *27* (2), 155–164.

(22) Ginting, J. A. Identifikasi Karakter Morfologi dan Hubungan Kekerabatan Tanaman Jeruk Siam (*Citrus nobilis* L.) di Kabupaten Karo dan Kabupaten Simalungun. 2019, 15.

(23) Roussos, P. A. *Orange (Citrus sinensis* (L.) *Osbeck)*; Elsevier Inc.: Athens,

Greece, 2015.

(24) Izazi, F.; Prayoga, B.; Hestianah, E. P.; Zulkarnain, E. Histopatologi Jantung Tikus pada Toksisitas Sub Kronis Ekstrak Etanol 70% Kulit Buah Jeruk *Citrus nobilis* Lour. *J. Herbal, Clin. Pharm. Sci.* 2020, *1* (02), 1.

(25) Nadaroglu, H.; Alayli, A.; Nadaroğlu, H.; Alayli Güngör, A.; İnce, S. Synthesis of Nanoparticles by Green Synthesis Method. *Int. J. Innov. Res. Rev.* 2017, *1* (1), 6–9.

(26) Arora, A. Ceramics in Nanotech Revolution. *Adv. Eng. Mater.* 2004, *6* (4), 244–247.

(27) Mbonyiryivuze, A.; Zongo, S.; Diallo, A.; Bertrand, S.; Minani, E.; Yadav, L. L.; Mwakikunga, B.; Dhlamini, S. M.; Maaza, M. Titanium Dioxide Nanoparticles Biosynthesis for Dye Sensitized Solar Cells Application: Review. *Phys. Mater. Chem.* 2015, *3* (1), 12–17.

(28) Ramadhani, F. Sintesis TiO_2 Berpori yang Dimodifikasi oleh Karbon (C) dan Nitrogen (N) dengan Metoda Peroxo Sol Gel untuk Aplikasi Reduksi Polutan Logam Berat Ion Cr(Vi). 2017.

(29) Yan, X.; Chen, X. *Titanium Dioxide Nanomaterials*; 2015.

(30) Khafifudin, B. Sintesis dan Karakterisasi Fotokatalis Titanium Dioksida (TiO_2) Anatas dengan Metode Sonikasi Variasi Suhu dan Waktu Kalsinasi. 2017.

(31) Mustofa, K. Sintesis dan Karakterisasi Titanium Dioksida (TiO_2) Anatas Terdoping Vanadium (V) menggunakan Metode Reaksi Padatan; Malang, Indonesia, 2014.

(32) Fardsadegh, B.; Jafarizadeh-Malmiri, H. Aloe Vera Leaf Extract Mediated Green Synthesis of Selenium Nanoparticles and Assessment of Their in Vitro Antimicrobial Activity against Spoilage Fungi and Pathogenic Bacteria Strains. *Green Process. Synth.* 2019, *8* (1), 399–407.

(33) Mohammed, A.; Abdullah, A. Scanning Electron Microscopy (SEM): A Review. *Int. Conf. Hydraul. Pneum.* 2018, *7* (January), 1–9.

(34) Sasti, H. T. Studi Preparasi dan Karakterisasi Titanium Dioksida Mesopori. 2011.

(35) Karim, S.; Pardoyo; Subagiyo, A. Sintesis Dan Karakterisasi TiO_2 Terdoping Nitrogen (N-Doped TiO2) Dengan Metode Sol–Gel. *J. Kim. Sains dan Apl.* 2016, *19* (2), 63–67.

(36) Zein, R.; Tomi, Z. B.; Fauzia, S.; Zilfa, Z. Modification of Rice Husk Silica with Bovine Serum Albumin (BSA) for Improvement in Adsorption of Metanil Yellow Dye. *J. Iran. Chem. Soc.* 2020, *17* (10), 2599–2612.

(37) Jamilatun, S.; Budhijanto; Rochmadi; Budiman, A. Thermal Decomposition and Kinetic Studies of Pyrolysis of Spirulina Platensis Residue. *Int. J. Renew. Energy Dev.* 2017, *6* (3), 193–201.

(38) Odlyha, M. Chapter 2 The Applications of Thermoanalytical Techniques to the Preservation of Art and Archaeological Objects. *Handb. Therm. Anal. Calorim.* 2003, *2*, 47–96.

(39) Ng, H. M.; Saidi, N. M.; Omar, F. S.; Ramesh, K.; Ramesh, S.; Bashir, S. Thermogravimetric Analysis of Polymers. *Encycl. Polym. Sci. Technol.* 2018, No. November, 1–29.

(40) Fifield, F. .; Kealey, D. Principles and Practice of Analytical SFE. *Pract. Supercrit. Fluid Chromatogr. Extr.* 2018, 477–501.

(41) Junaidi, A. B.; Wahyudi, A.; Umaningrum, D. Kajian Sintesis Nanopartikel Perak Pada Komposit Kitosan Dan Polietilena Glikol : Efek Jenis Agen Pereduksi Organik Study on the Synthesis of Silver Nanoparticles Onto Chitosan and Polyethylene Glycol Composites: Effect of Organic Reducing Agent. *Jur. Kim. FMIPA Univ. Negeri Surabaya* 2016, No. September, 3–4.

(42) Jaroniec, M.; Kruk, M.; Sayari, A. *Adsorption Methods for Characterization of Surface and Structural Properties of Mesoporous Molecular Sieves*; Elsevier Masson SAS, 1998; Vol. 117.

(43) Nasrollahzadeh, M.; Atarod, M.; Sajjadi, M.; Sajadi, S. M.; Issaabadi, Z. *Plant-Mediated Green Synthesis of Nanostructures: Mechanisms, Characterization, and Applications*, 1st ed.; Elsevier Ltd., 2019; Vol. 28.

(44) Kusumaningtyas, M. P. Analisis Struktur Nano Batu Apung Lombok Menggunakan Metode BET (Brunauer-Emmet Teller), Institut Teknologi Sepuluh November, 2017.

(45) Putranto, A.; Angelina, S. Pemodelan Perpindahan Massa Adsorpsi Zat Warna Pada Florisil Dan Silica Gel Dengan Homogeneous and Heterogeneous Surface Diffusion Model, Universitas Katolik Parahyangan, 2014.

(46) Sungur, Ş. Titanium Dioxide Nanoparticles. *Handb. Nanomater. Nanocomposites Energy Environ. Appl.* 2020, 1–18.

(47) Nurbayasari, R.; Saridewi, N.; Shofwatunnisa, S. Biosynthesis and Characterization of ZnO Nanoparticles with Extract of Green Seaweed Caulerpa Sp. *J. Perikan. Univ. Gadjah Mada* 2017, *19* (1), 17.

(48) Mustofa, K.; Aini, N.; Ningsih, R. Synthesis and Characterization Titanium Dioxide (TiO_2) Doped Vanadium(V) Using Solid State Method. *Alchemy* 2015, *4*

(1).

(49) Wardiyanti, S.; Adi, W. A.; Syahbani, E. Pengaruh Konsentrasi $(NH4)_2SO_4$ Terhadap Karakteristik TiO_2 Hasil Sintesis dengan Metode Sol Gel. 2015, 193–198.

(50) Xing-Gang, H.; An-Dong, L.; Mei-Dong, H.; Bin, L.; Xiao-Ling, W. First-Principles Band Calculations on Electronic Structures of Ag-Doped Rutile and Anatase TiO_2. *Chinese Phys. Lett.* 2009, *26* (7), 2–5.

(51) Daniyati, R.; Zharvan, V.; Ichsan, N.; Pramono, Y. H.; Yudoyono, G. Penentuan Energi Celah Pita Optik Film TiO_2 Menggunakan Metode Tauc Plot. *Semin. Sains dan Teknol.* 2015, No. August, 1–5.

(52) Uyun, M. Sintesis Nanopartikel TiO_2 Rutile dengan Prekursor $TiCl_3$ (Proses Hidrolisis dan Mineralisasi) dan Prekursor $TiCl_4$. 2015, *3*.

(53) Dachriyanus, P. D. Analisis Struktur Senyawa Organik Secara Spektroskop; 2004.

(54) Xu, Q. C.; Wellia, D. V.; Yan, S.; Liao, D. W.; Lim, T. M.; Tan, T. T. Y. Enhanced Photocatalytic Activity of C-N-Codoped TiO_2 Films Prepared via an Organic-Free Approach. *J. Hazard. Mater.* 2011, *188* (1–3), 172–180.

(55) Kim, C. S.; Nakaso, K.; Xia, B.; Okuyama, K.; Shimada, M. A New Observation on the Phase Transformation of TiO_2 Nanoparticles Produced by a CVD Method. *Aerosol Sci. Technol.* 2005, *39* (2), 104–112.

(56) Marques Zoccal, J. V.; de Oliveira Arouca, F.; Silveira Goncalves, J. A. SYNTHESIS AND CHARACTERIZATION OF TiO2 NANOPARTICLES BY THE METHOD PECHINI. *Mater. Sci. Forum* 2010, *660–61*, 6.

(57) Bekele, E. T.; Zereffa, E. A.; Gultom, N. S.; Kuo, D. H.; Gonfa, B. A.; Sabir, F. K. Biotemplated Synthesis of Titanium Oxide Nanoparticles in the Presence of Root Extract of Kniphofia Schemperi and Its Application for Dye Sensitized Solar Cells. *Int. J. Photoenergy* 2021, *2021*, 1–12.

(58) Wellia, D. V.; Xu, Q. C.; Sk, M. A.; Lim, K. H.; Lim, T. M.; Tan, T. T. Y. Experimental and Theoretical Studies of Fe-Doped TiO_2 Films Prepared by Peroxo Sol-Gel Method. *Appl. Catal. A Gen.* 2011, *401* (1–2), 98–105.