

DAFTAR PUSTAKA

- Abechi, E.S., Gimba, C.E., Uzairu, A., and Kagbu, J.A., 2011, Kinetics of Adsorption of Methylene Blue onto Activated Carbon Prepared from Palm Kernel Shell, *Sch. Res. Libr.*, 3, 154–164.
- Abukhadra, M.R., Adlii, A., El-Sherbeeney, A.M., Ahmed Soliman, A.T., and Abd Elgawad, A.E.E., 2020, Promoting the Decontamination of Different Types of Water Pollutants (Cd^{2+} , Safranin Dye, and Phosphate) Using a Novel Structure of Exfoliated Bentonite Admixed with Cellulose Nanofiber, *J. Environ. Manage.*, 273, 111–115.
- Acemioğlu, B., Bilir, M.H., and Alma, M.H., 2018, Adsorption of Safranin-O Dye by Peanut Shell-Based Polyurethane Type Foam, *Int. J. Chem. Technol.*, 2, 95–104.
- Adams, D., Ager, J.W., Agio, M., Agnesi, A., Alford, T.L., Amann, M.-C., Amato, A., Ambs, P., Andreani, L.C., Andreica, D., Angelini, N., Arai, T., Artoni, M., and Ascoli, C., 2005, Encyclopedia of Condensed Matter Physics, First Edit. Bassani, F., Liedl, G.L., and Wyder, P. (eds) Academic Press, Spain.
- Al-Salihi, S., Jasim, A.M., Fidalgo, M.M., and Xing, Y., 2022, Removal of Congo Red Dyes from Aqueous Solutions by Porous γ -Alumina Nanoshells, *Chemosphere*, 286, 131–133.
- Alam, M.N. and Christopher, L.P., 2018, Natural Cellulose-Chitosan Cross-Linked Superabsorbent Hydrogels with Superior Swelling Properties, *ACS Sustain. Chem. Eng.*, 6, 8736–8742.
- Albaugh, V.L. and Barbul, A., 2017, Arginine, *Life Sci.*, 1, 1–5.
- Aliaga, A.E., Garrido, C., Leyton, P., Diaz F., G., Gomez-Jeria, J.S., Aguayo, T., Clavijo, E., Campos-Vallette, M.M., and Sanchez-Cortes, S., 2010, SERS and Theoretical Studies of Arginine, *Spectrochim. Acta - Part A Mol. Biomol. Spectrosc.*, 76, 458–463.
- Amini Tapouk, F., Nabizadeh, R., Nasser, S., Mesdaghinia, A., Khorsandi, H., Yousefi, M., Alimohammadi, M., and Khoobi, M., 2020, Embedding of L-Arginine into Graphene Oxide (GO) for Endotoxin Removal from Water: Modeling and Optimization Approach, *Colloids Surfaces A Physicochem. Eng. Asp.*, 607, 125–129.
- Asfaram, A., Ghaedi, M., Goudarzi, A., and Rajabi, M., 2015, Response Surface Methodology Approach for Optimization of Simultaneous 2 Dyes and Metal Ions Ultrasound-Assisted Adsorption onto Mn Doped Fe_3O_4 -Nps Loaded on AC: Kinetic and Isotherm Study, *R. Soc. Chem.*, 9, 1–38.
- Asl, H.F., Zargar, G., Manshad, A.K., Takassi, M.A., Ali, J.A., and Keshavarz, A., 2020, Experimental Investigation into L-Arg and L-Cys Eco-Friendly Surfactants in Enhanced Oil Recovery by Considering IFT Reduction and Wettability Alteration, *Pet. Sci.*, 17, 105–117.

- Ba Mohammed, B., Hsini, A., Abdellaoui, Y., Abou Oualid, H., Laabd, M., El Ouardi, M., Ait Addi, A., Yamni, K., and Tijani, N., 2020, Fe-ZSM-5 Zeolite for Efficient Removal of Basic Fuchsin Dye From Aqueous Solutions: Synthesis, Characterization and Adsorption Process Optimization Using BBD-RSM Modeling, *J. Environ. Chem. Eng.*, 8, 104–109.
- Bakker, R., Elbersen, W., Poppens, R., and Lesschen, J.P., 2013, Rice Straw and Wheat Straw Potential Feedstocks for the Biobased Economy, *Food Biobased Res.*, 5, 6–30.
- Bayramoglu, G., Altintas, B., and Arica, M.Y., 2009, Adsorption Kinetics and Thermodynamic Parameters of Cationic Dyes from Aqueous Solutions by Using a New Strong Cation-Exchange Resin, *Chem. Eng. J.*, 152, 339–346.
- Bazaine, A.A., Trujillo, A.C., and Marquez, M.O., 2022, Adsorption Isotherms: Enlightenment of the Phenomenon of Adsorption, *Intech*, 11, 1–15.
- Bessashia, W., Berredjem, Y., Hattab, Z., and Bououdina, M., 2020, Removal of Basic Fuchsin from Water by Using Mussel Powdered Eggshell Membrane as Novel Bioadsorbent: Equilibrium, Kinetics, and Thermodynamic Studies, *Environ. Res.*, 186, 1–12.
- Bhanvase, B., Sonawane, S., Pawade, V., and Pandit, A., 2021, Handbook of Nanomaterials for Wastewater Treatment, First. Holt, S. (ed) Matthew Deans, Amsterdam.
- Bhattacharya, A., Rawlins, J.W., and Ray, P., 2009, Polymer Grafting and Crosslinking, First Edit. John Wiley & Sons, Hoboken, New Jersey.
- Bodîrlău, R., Spiridon, I., and Teacă, C.A., 2007, Chemical Investigation of Wood Tree Species in Temperate Forest in East-Northern Romania, *BioResources*, 2, 41–57.
- Bulgariu, L., Escudero, L.B., Bello, O.S., Iqbal, M., Nisar, J., Adegoke, K.A., Alakhras, F., Kornaros, M., and Anastopoulos, I., 2019, The Utilization of Leaf-Based Adsorbents for Dyes Removal: A Review, *J. Mol. Liq.*, 276, 728–747.
- Chandel, A.K., Singh, O. V., and Rao, L.V., 2010, Sustainable Biotechnology: Sources of Renewable Energy, *Sustain. Biotechnol. Sources Renew. Energy*, 007, 1–323.
- Chen, J., Garcia, E.S., and Zimmerman, S.C., 2020, Intramolecularly Cross-Linked Polymers: From Structure to Function with Applications as Artificial Antibodies and Artificial Enzymes, *Acc. Chem. Res.*, 53, 1244–1256.
- Chen, W.H., Tu, Y.J., and Sheen, H.K., 2011, Disruption of Sugarcane Bagasse Lignocellulosic Structure by Means of Dilute Sulfuric Acid Pretreatment with Microwave-Assisted Heating, *Appl. Energy*, 88, 2726–2734.
- Cheung, P.S.M., 2008, Mirror Symmetry Breaking and Chiral Amplification of Ethylenediammonium Sulfate Crystals, *Publ. Herit. Branch*, 1, 4–5.

- Darmawan, S., Wistara, N.J., Pari, G., Maddu, A., and Syafii, W., 2016, Characterization of Lignocellulosic Biomass as Raw Material for the Production of Porous Carbon-Based Materials, *BioResources*, 11, 3561–3574.
- Demiral, H. and Güngör, C., 2016, Adsorption of Copper(II) from Aqueous Solutions on Activated Carbon Prepared from Grape Bagasse, *J. Clean. Prod.*, 124, 103–113.
- Ekowati, G.W. and Rahmayanti, M., 2019, Kajian Desorpsi Zat Warna Indigosol Blue dari Adsorben Humin Hasil Isolasi Tanah Gambut Riau, Sumatera, *Anal. Environ. Chem.*, 4, 68–75.
- Evangelista, L.R. and Lenzi, E.K., 2018, Fractional Diffusion Equations and Anomalous Diffusion, First Edit. Cambridge University Press, Cambridge.
- Fang, D., Zhuang, X., Huang, L., Zhang, Q., Shen, Q., Jiang, L., Xu, X., and Ji, F., 2020, Developing the New Kinetics Model Based on the Adsorption Process: from Fitting to Comparison and Prediction, *Sci. Total Environ.*, 725, 138–140.
- Farikha, I., Rahayuningsih, E., and Kusumastuti, Y., 2020, Pengaruh Asam Sitrat pada Imobilisasi Nanopartikel TiO₂ sebagai Anti UV pada Kain Katun Berperwarna Indigofera Tinctoria, *SINASIS*, 1, 211–215.
- Fatriasari, W., Syafii, W., Wistara, N., Syamsu, K., and Prasetya, B., 2016, Lignin and Cellulose Changes of Betung Bamboo (*Dendrocalamus asper*) Pretreated Microwave Heating, *Int. J. Adv. Sci. Eng. Inf. Technol.*, 6, 186–195.
- Fayazi, M., Afzali, D., Taher, M.A., Mostafavi, A., and Gupta, V.K., 2015, Removal of Safranin Dye from Aqueous Solution Using Magnetic Mesoporous Clay: Optimization Study, *J. Mol. Liq.*, 212, 675–685.
- Ferkous, H., Hamdaoui, O., and Merouani, S., 2015, Sonochemical Degradation of Naphthol Blue Black In Water: Effect of Operating Parameters, *Ultrason. Sonochem.*, 26, 40–47.
- Fitch, C.A., Platzer, G., Okon, M., Garcia-Moreno, B.E., and McIntosh, L.P., 2015, Arginine: Its pKa value revisited, *Protein Sci.*, 24, 752–761.
- García, A., Gandini, A., Labidi, J., Belgacem, N., and Bras, J., 2016, Industrial and Crop Wastes: A New Source for Nanocellulose Biorefinery, *Ind. Crops Prod.*, 93, 26–38.
- Gea, S., Indra, Muis, Y., Panindia, N., and Hutapea, Y.A., 2019, Preparation of Polyvinyl Alcohol/Cellulose Nano Fiber Nanocomposite Isolated from Empty Oil Palm Fruit Bunches, *IOP Conf. Ser. Mater. Sci. Eng.*, 553, 1–10.
- Ghaffar, S.H. and Fan, M., 2014, Lignin in Straw and Its Applications as an Adhesive, *Int. J. Adhes. Adhes.*, 48, 92–101.
- Ghosh, I., Kar, S., Chatterjee, T., Bar, N., and Das, S.K., 2021, Adsorptive Removal of Safranin-O Dye from Aqueous Medium Using Coconut Coir and Its Acid-Treated Forms: Adsorption Study, Scale-Up Design, MPR and GA-ANN

Modeling, *Sustain. Chem. Pharm.*, 19, 14–15.

- Guo, S., Jiao, P., Dan, Z., Duan, N., Chen, G., and Zhang, J., 2017, Preparation of L-Arginine Modified Magnetic Adsorbent by One-Step Method for Removal of Zn(II) and Cd(II) from Aqueous Solution, *Chem. Eng. J.*, 317, 999–1011.
- Gupta, V.K., Mittal, A., Gajbe, V., and Mittal, J., 2008, Adsorption of Basic Fuchsin Using Waste Materials-Bottom Ash and Deoiled Soya-as Adsorbents, *J. Colloid Interface Sci.*, 319, 30–39.
- Hameed, A., Khurshid, S., and Adnan, A., 2020, Synthesis and Characterization of Carboxymethyl Cellulose Based Hydrogel and Its Applications on Water Treatment, *Desalin. Water Treat.*, 196, 214–227.
- Hefni, H.H.H., Nagy, M., Azab, M.M., and Hussein, M.H.M., 2020, O-Acylation of Chitosan by L-Arginine to Remove the Heavy Metals and Total Organic Carbon (TOC) from Wastewater, *Egypt. J. Pet.*, 29, 31–38.
- Herliati, 2017, Kajian Kinetika Pembuatan Epiklorohidrin, *Konversi*, 6, 13–18.
- Ho, Y.S. and McKay, G., 2000, The Kinetics of Sorption of Divalent Metal Ions onto Sphagnum Moss Peat, *Water Res.*, 34, 735–742.
- Hocine, T., Benabadji, K.I., Bouras, B., Zennaki, A., and Benali, A., 2022, Enhanced Removal of Brilliant Orange by Poly(4-vinylpyridine)/Acid-Activated Bentonite Composite, *Iran. Chem. Soc.*, 11, 327–339.
- Hu, C., Jiang, J., An, Y., Jiang, X., Sun, Q., Zheng, H., and Li, H., 2022, A Novel Self-Floating Silica Adsorbent for Antibiotic Ciprofloxacin and Nickel (II) Ion, *Chem. Eng. J.*, 429, 13–15.
- Hughes, C.E., Boughdiri, I., Bouakkaz, C., Williams, P.A., and Harris, K.D.M., 2017, Elucidating the Crystal Structure of dl -Arginine by Combined Powder X-ray Diffraction Data Analysis and Periodic DFT-D Calculations, *Cryst. Growth Des.*, 18, 42–46.
- Ilgin, P., Ozay, H., and Ozay, O., 2019, Selective Adsorption of Cationic Dyes from Colored Noxious Effluent Using a Novel N-Tert-Butylmaleamic Acid Based Hydrogels, *React. Funct. Polym.*, 142, 189–198.
- Jalaja, K. and James, N.R., 2015, Electrospun Gelatin Nanofibers: A Facile Cross-Linking Approach Using Oxidized Sucrose, *Int. J. Biol. Macromol.*, 73, 270–278.
- Kaur, S., Rani, S., Mahajan, R.K., Asif, M., and Gupta, V.K., 2015, Synthesis and Adsorption Properties of Mesoporous Material for the Removal of Dye Safranin: Kinetics, Equilibrium, and Thermodynamics, *J. Ind. Eng. Chem.*, 22, 19–27.
- Kaushal, A. and Singh, S., 2017, Adsorption Phenomenon and Its Application in Removal of Lead from Waste Water: A Review, *Int. J. Hydrol.*, 1, 1–11.
- Khapre, M., Shekhawat, A., Saravanan, D., Pandey, S., and Jugade, R., 2022, Mesoporous Fe-Al-Doped Cellulose for the Efficient Removal of Reactive

- Dyes, *Mater. Adv.*, 3, 3278–3285.
- Kim, S., 2021, Blending of Waste Biomass for Cost-Effective Chitosan-Based Biosorbents for Removal of Reactive Dye from Aqueous Solution, *Environ. Eng. Res.*, 27, 21–23.
- Kimura, S., Ohshima, C., Hirose, E., Nishikawa, J., and Itoh, T., 2001, Cellulose in the House of the Appendicularian *Oikopleura Rufescens*, *Protoplasma*, 216, 71–74.
- Lao, T.L.B., Cordura, S.L.A., Diaz, L.J.L., and Vasquez, M.R., 2020, Influence of Plasma Treatment on the Dissolution of Cellulose in Lithium Chloride-Dimethylacetamide, *Cellulose*, 27, 9801–9811.
- Laus, R., Costa, T.G., Szpoganicz, B., and Fávere, V.T., 2010, Adsorption and Desorption of Cu(II), Cd(II) and Pb(II) Ions Using Chitosan Crosslinked with Epichlorohydrin-Triphosphate as the Adsorbent, *J. Hazard. Mater.*, 183, 233–241.
- Lee, M., 2017, X-Ray Diffraction for Materials Research: From Fundamentals to Applications, First Edit. Apple Academic Press, Canada.
- Martinez, L., Agnely, F., Leclerc, B., Siepmann, J., Cotte, M., Geiger, S., and Couarraze, G., 2007, Cross-Linking of Chitosan and Chitosan/Poly(Ethylene Oxide) Beads: A Theoretical Treatment, *Eur. J. Pharm. Biopharm.*, 67, 339–348.
- Martins, L.R., Catone Soares, L., Alves Gurgel, L.V., and Gil, L.F., 2022, Use of a New Zwitterionic Cellulose Derivative for Removal of Crystal Violet and Orange II from Aqueous Solutions, *J. Hazard. Mater.*, 424, 1–15.
- Mathilda, T., Lastriyanto, A., and Widyaningrum, B.A., 2021, Pemanfaatan Bagasse Sorgum dengan Modifikasi NaOH sebagai Adsorben Pereduksi Kontaminan Logam Berat Pb(II), *Environ. Chem.*, 8, 1–2.
- Mayerhöfer, T.G., 2021, Wave Optics in Infrared Spectroscopy, First Edit. Jena.
- Moawed, E.A. and Abulkibash, A.B., 2016, Selective Separation of Light Green and Safranin O from Aqueous Solution Using *Salvadora Persica* (Miswak) Powder as a New Biosorbent, *J. Saudi Chem. Soc.*, 20, 178–185.
- Mohamed, S.S.Y., Onida, B., Martinez, S., Banchero, M., Manna, L., and Ronchetti, S., 2021, The Role of the pH in the Impregnation of Spherical Mesoporous Silica Particles with L-Arginine Aqueous Solutions, *Int. J. Mol. Sci.*, 22, 1–11.
- Nagarajan, S., Skillen, N.C., Irvine, J.T.S., Lawton, L.A., and Robertson, P.K.J., 2017, Cellulose II as Bioethanol Feedstock and Its Advantages Over Native Cellulose, *Renew. Sustain. Energy Rev.*, 77, 182–192.
- Naji, S.I. and Jasim, K.K., 2021, Adsorption Study of Basic Fuchsin Dye on The *Astragalus* Root Surface in Al-Muthanna Province, *Syst. Rev. Pharm.*, 12, 850–857.

- Nasihah, M. and Pratiwi, S.H.P., 2021, Pemanfaatan Jerami Padi sebagai Pakan Ternak Menggunakan Metode Silase di Desa Kelorarum Kecamatan Tikung Lamongan, *J. Abdimas Berdaya*, 4, 42.
- Naushad, M., Alqadami, A.A., AlOthman, Z.A., Alsohaimi, I.H., Algamdi, M.S., and Aldawsari, A.M., 2019, Adsorption Kinetics, Isotherm and Reusability Studies for the Removal of Cationic Dye from Aqueous Medium Using Arginine Modified Activated Carbon, *J. Mol. Liq.*, 293, 2–3.
- Nuringtyas, T.R., 2010, Karbohidrat, Edisi Pert. UGM Press, Yogyakarta.
- O'Connell, D.W., Birkinshaw, C., and O'Dwyer, T.F., 2008, Heavy Metal Adsorbents Prepared from The Modification of Cellulose: A Review, *Bioresour. Technol.*, 99, 6709–6724.
- Okhlopkova, E.A., Serafimov, L.A., and Frolova, A. V., 2019, Methods of Preparing Epichlorohydrin, *Theor. Found. Chem. Eng.*, 53, 864–870.
- Peng, L., Qin, P., Lei, M., Zeng, Q., Song, H., Yang, J., Shao, J., Liao, B., and Gu, J., 2012, Modifying Fe₃O₄ Nanoparticles with Humic Acid for Removal of Rhodamine B in Water, *J. Hazard. Mater.*, 209, 193–198.
- Phitsuwon, P., Permsriburasuk, C., Baramee, S., Teeravivattanakit, T., and Ratanakhanokchai, K., 2017, Structural Analysis of Alkaline Pretreated Rice Straw for Ethanol Production, *Int. J. Polym. Sci.*, 2, 3–4.
- Pormazar, S.M. and Dalvand, A., 2020, Adsorption of Reactive Black 5 Azo Dye from Aqueous Solution by Using Amine-Functioned Fe₃O₄ Nanoparticles with L-Arginine: Process Optimisation Using RSM, *Int. J. Environ. Anal. Chem.*, 1, 1–20.
- Pothast, A., Rosenau, T., and Kosma, P., 2006, Analysis of Oxidized Functionalities in Cellulose, *Adv. Polym. Sci.*, 205, 1–48.
- Raghav, S., Nehra, S., and Kumar, D., 2019, Adsorptive Removal Studies of Fluoride in Aqueous System by Bimetallic Oxide Incorporated in Cellulose, *Process Saf. Environ. Prot.*, 127, 211–225.
- Rahmayanti, M., Prandini, M.N., and Santi, G.C., 2020, Aplikasi Asam Humat Hasil Isolasi Tanah Gambut Kalimantan sebagai Adsorben Zat Warna Naphtol Blue Black dan Indigosol Blue: Studi Perbandingan Model Kinetika dan Isoterm Adsorpsi, *JST (Jurnal Sains Ter.)*, 6, 90–98.
- Ranur, D., Zaharah, T.A., and Brilliantoro, R., 2020, Sintesis Komposit Adsorben Lateks Karet Alam-Selulosa Ampas Tebu untuk Penurunan Chemical Oxygen Demand, *Kim. Khatulistiwa*, 8, 23–28.
- Rey, C., Combes, C., Drouet, C., Grossin, D., Bertrand, G., and Soulié, J., 2017, Bioactive Calcium Phosphate Compounds: Physical Chemistry, Elsevier.
- Rowe, R.C., Sheskey, P.J., and Quinn, M.E., 2009, Handbook of Pharmaceutical Excipients, Sixth Edit. Pharmaceutical Press, London.
- Sadhasivam, B. and Muthusamy, S., 2015, Synthesis and Characterization of

Optically Active Polyimides and Their Octa (Aminophenyl) Silsesquioxane Nanocomposites, *High Perform. Polym.*, 7, 1–15.

- Sahoo, T.R. and Prelot, B., 2020, Adsorption Processes for the Removal of Contaminants from Wastewater: the Perspective Role of Nanomaterials and Nanotechnology,. In, Bonelli,B., Freyria,F.S., Rossetti,I., and Sethi,R. (eds), *Nanomaterials for the Detection and Removal of Wastewater Pollutants*. Elsevier Inc., Amsterdam, pp. 161–222.
- Sahu, M.K. and Patel, R.K., 2015, Removal of Safranin-O Dye from Aqueous Solution Using Modified Red Mud: Kinetics and Equilibrium Studies, *RSC Adv.*, 5, 78491–78501.
- Sahu, M.K., Sahu, U.K., and Patel, R.K., 2015, Adsorption of safranin-O dye on CO₂ neutralized activated red mud waste: Process modelling, analysis and optimization using statistical design, *RSC Adv.*, 5, 42294–42304.
- Sastrohamidjojo, H., 2013, Dasar-Dasar Spektroskopi, Edisi pert. Gadjah Mada University Press, Yogyakarta.
- Setiabudi, A., Hardian, R., and Muzakir, A., 2012, Karakterisasi Material: Prinsip dan Aplikasinya dalam Penelitian Kimia, Edisi Pert. UPI Press, Bandung.
- Shaheen, T.I., El-Naggar, M.E., Abdelgawad, A.M., and Hebeish, A., 2016, Durable Antibacterial and UV Protections of In Situ Synthesized Zinc Oxide Nanoparticles onto Cotton Fabrics, *Int. J. Biol. Macromol.*, 83, 426–432.
- Shaltout, W.A., El-Naggar, G.A., Esmail, G., and Hassan, A.F., 2022, Synthesis and Characterization of Ferric@Nanocellulose/Nanohydroxyapatite Bio-Composite Based on Sea Scallop Shells and Cotton Stalks: Adsorption of Safranin-O Dye, *Biomass Convers. Biorefinery*, 4, 6–7.
- Shervington, A. and Al-Tayyem, R., 2001, Arginine, *Anal. Profiles Drug Subst. Excipients*, 27, 1–32.
- Shi, S.C. and Liu, G.T., 2021, Cellulose Nanocrystal Extraction from Rice Straw Using a Chlorine-Free Bleaching Process, *Cellulose*, 28, 6147–6158.
- Shi, Y., Wang, Xisen, Wang, Xin, Carlson, K., and Li, Z., 2021, Removal of Toluidine Blue and Safranin O from Single and Binary Solutions Using Zeolite, *Crystals*, 11, 3–4.
- da Silva Peixoto, T., Yamashita, F., Bilck, A.P., Carvalho, G.M., and Grossmann, M.V.E., 2019, Crosslinking Starch/Oat Hull Mixtures for Use in Composites with PLA, *Polimeros*, 29, 1–8.
- Sims, R.A., Harmer, S.L., and Quinton, J.S., 2019, The Role of Physisorption And Chemisorption in the Oscillatory Adsorption of Organosilanes on Aluminium Oxide, *Polymers (Basel)*, 11, 1–10.
- Smestad, G.P., 1998, Education and Solar Conversion: Demonstrating Electron Transfer, *Sol. Energy Mater. Sol. Cells*, 55, 157–178.
- Smith, B.C., 2017, Infrared Spectral Interpretation: A Systematic Approach, Two

Editio. Taylor & Francis, New York.

- Stoller, M., Azizova, G., Mammadova, A., Vilardi, G., Di Palma, L., and Chianese, A., 2016, Treatment of Olive Oil Processing Wastewater by Ultrafiltration, Nanofiltration, Reverse Osmosis and Biofiltration, *Chem. Eng. Trans.*, 47, 409–414.
- Sunardi, S., Lestari, A., Junaidi, A.B., and Istikowati, W.T., 2019, Isolation of Microcrystalline Cellulose from Medang Wood (*Neolitsea latifolia*), *Konversi*, 8, 8–11.
- Sutirman, Z.A., Sanagi, M.M., Abd Karim, K.J., Naim, A.A., and Wan Ibrahim, W.A., 2018, Chitosan-Based Adsorbents for The Removal of Metal Ions from Aqueous Solutions, *Malaysian J. Anal. Sci.*, 22, 839–850.
- Teodoro, F.S., Elias, M.M.C., Ferreira, G.M.D., Adarme, O.F.H., Savedra, R.M.L., Siqueira, M.F., da Silva, L.H.M., Gil, L.F., and Gurgel, L.V.A., 2018, Synthesis and Application of a New Carboxylated Cellulose Derivative. Part III: Removal of Auramine-O and Safranin-T from Mono- and Bi-Component Spiked Aqueous Solutions, *J. Colloid Interface Sci.*, 512, 575–590.
- Thamer, B.M., El-Hamshary, H., Al-Deyab, S.S., and El-Newehy, M.H., 2019, Functionalized Electrospun Carbon Nanofibers for Removal of Cationic Dye, *Arab. J. Chem.*, 12, 747–759.
- Umaningrum, D., Nurmasari, R., Astuti, M.D., Mardhatillah, M., Mulyasuryani, A., and Mardiana, D., 2018, Isolasi Selulosa dari Jerami Padi Menggunakan Variasi Konsentrasi Basa, *J. Sains dan Terap. Kim.*, 12, 25.
- Utagawa, T., 2004, Production of Arginine by Fermentation, *J. Nutr.*, 134, 2854–2857.
- Verma, D.S., Khan, L.U., and Kumar, S., 2018, Handbook of Materials Characterization, First Edit. Sharma, S.K. (ed) Springer, Cham, Switzerland.
- Vidovix, T.B., Quesada, H.B., Bergamasco, R., Vieira, M.F., and Vieira, A.M.S., 2021, Adsorption of Safranin-O Dye by Copper Oxide Nanoparticles Synthesized from Punica Granatum Leaf Extract, *Environ. Technol.*, 43, 3047–3063.
- Wang, L., Wang, J., Pan, H., Zhao, M., and Chen, J., 2021, Kinetics and Removal Pathway of Basic Fuchsin by Electrochemical Oxidization, *J. Electroanal. Chem.*, 880, 5–7.
- Wathukarage, A., Herath, I., Iqbal, M.C.M., and Vithanage, M., 2019, Mechanistic Understanding of Crystal Violet Dye Sorption by Woody Biochar: Implications for Wastewater Treatment, *Environ. Geochem. Health*, 41, 1647–1661.
- Wu, Z.C., Wang, Z.Z., Liu, J., Yin, J.H., and Kuang, S.P., 2016, Removal of Cu(II) Ions from Aqueous Water by L-Arginine Modifying Magnetic Chitosan, *Colloids Surfaces A Physicochem. Eng. Asp.*, 499, 141–149.

- Yahaya, N., Latiff, M., Abustan, I., Bello, O., and Ahmad, M., 2011, Adsorptive Removal of Cu (II) Using Activated Carbon Prepared from Rice Husk by ZnCl₂ Activation and Subsequent Gasification with CO₂, *Int J Eng Technol*, 11, 164–168.
- Yang, Y.P., Zhang, Y., Lang, Y.X., and Yu, M.H., 2017, Structural ATR-IR Analysis of Cellulose Fibers Prepared from a NaOH Complex Aqueous Solution, *IOP Conf. Ser. Mater. Sci. Eng.*, 213, 3–5.
- Yuan, J., Qiu, F., and Li, P., 2017, Synthesis and Characterization of β -Cyclodextrin–Carboxymethyl Cellulose–Graphene Oxide Composite Materials and Its Application for Removal of Basic Fuchsin, *J. Iran. Chem. Soc.*, 14, 1827–1837.
- Yusuf, M., Elfghi, F.M., and Mallak, S.K., 2015, Kinetic Studies of Safranin-O Removal from Aqueous Solutions Using Pineapple Peels, *Iran. J. Energy Environ.*, 6, 1–2.
- Zhang, S., Wang, W.C., Li, F.X., and Yu, J.Y., 2013, Swelling and Dissolution of Cellulose in NaOH Aqueous Solvent Systems, *Cellul. Chem. Technol.*, 47, 671–679.
- Zhao, Y.H., Geng, J.T., Cai, J.C., Cai, Y.F., and Cao, C.Y., 2020, Adsorption Performance of Basic Fuchsin on Alkali-Activated Diatomite, *Adsorpt. Sci. Technol.*, 38, 151–167.
- Zhou, Yanbo, Lu, J., Zhou, Yi, and Liu, Y., 2019, Recent Advances for Dyes Removal Using Novel Adsorbents: A review, *Environ. Pollut.*, 252, 352–365.
- Zugenmaier, P., 2008, Crystalline Cellulose and Derivatives, Timell, T.E. and Wimmer, R. (eds) Springer, Germany.