

DAFTAR PUSTAKA

- Ainiyyah, N., Anwar, F., Meicahayanti, I., Dwi, D., dan Rahayu, E., 2022, Pengaruh Variasi Waktu Kontak dan Massa Adsorben Kulit Jeruk (*Citrus Nobilis*) terhadap Penyisihan Kadmium (Cd) dan Merkuri (Hg)T, *Jurnal Teknologi Lingkungan*, 6(1), 44-52.
- Alfanaar, R., Yuniati, Y., dan Rismiarti, Z., 2017, Studi Kinetika dan Isoterm Adsorpsi Besi (III) pada Zeolit Alam dengan Bantuan Gelombang Sonikasi, *Jurnal Kimia dan Pendidikan*, 2(1), 63.
- Al-Maliky, E.A., Gzar, H.A., and Al-Azawy, M.G., 2021, Determination of Point of Zero Charge (PZC) of Concrete Particles Adsorbents, *IOP Conf Ser Mater Sci Eng*, 1(1), 1184.
- Al-Tohamy, R., Ali, S.S., Li, F., Okasha, K.M., Mahmoud, Y.A.G., Elsamahy, T., Jiao, H., Fu, Y., and Sun, J., 2022, A Critical Review On The Treatment Of Dye-Containing Wastewater: Ecotoxicological and Health Concerns Of Textile Dyes and Possible Remediation Approaches for Environmental Safety, *Ecotoxicol Environ Saf*, 1(2), 231,
- Analda Souhoka, F. and Latupeirissa, J., 2018, Sintesis dan Karakterisasi Selulosa Asetat (CA) Synthesis and Characterization of Cellulose Acetate (CA), *Indo.J. Chem. Res*, 5(2), 58-62.
- Baunsele, A.B. dan Missa, H., 2020, Kajian Kinetika Adsorpsi Metilen Biru Menggunakan Adsorben Sabut Kelapa, *Akta Kimia Indonesia*, 5(1), 76.
- Bendjama, M., Hamdaoui, O., Ferkous, H., and Alghyamah, A., 2022, Degradation of Safranin O in Water by UV/TiO₂/IO₄⁻ Process: Effect of Operating Conditions and Mineralization, *Catalysts*, 1, 12.
- Distantina, S., Rahayu, F., Hanum, T., dan Zalfa, G., 2018, Bead Gel dari Karagenan-Carboxymethylcellulose dengan Crosslinking Glutaraldehyd sebagai Controlled Release Urea, *Jurusan Teknik Kimia*, 5(1), 1-7.
- Duque Sánchez, L.M., Rodriguez, L., and López, M., 2014, Electrospinning: La Era De Las Nanofibras, *Revista Iberoamericana de Polímeros*, 14(1), 10-27.

- Dwi, A., Madjid, R., Nitsae, M., dan Sabarudin, A., 2018, Perbandingan Butiran Kitosan dengan Pengikat Silang Epiklorohidrin (ECH) dan Glutaraldehid (GLA): Karakterisasi dan Kemampuan Adsorpsi Timbal (Pb), *Alchemy*, 6 (1), 29-37.
- El-Habacha, M., Dabagh, A., Lagdali, S., Miyah, Y., Mahmoudy, G., Sinan, F., Chiban, M., Iaich, S., and Zerbet, M., 2023, An Efficient and Adsorption of Methylene Blue Dye on a Natural Clay Surface: Modeling and Equilibrium Studies, *Environmental Science and Pollution Research*, 317.
- Ernawati, E.E. dan Suhartini, M., 2016, Sintesis Membran Kopolimerisasi Selulosa Asetat-Glutaraldehid menggunakan Radiasi Berkas Elektron untuk Pervaporasi Etanol-Air, *Jurnal Sains Materi Indonesia*, 17, 56–62.
- Fessenden, R.J. dan Fessenden, R.J., 1982, Kimia Organik Dasar Jilid 3, 3rd ed. Erlangga, Surabaya.
- Guo, J., Zhou, S., Ma, X., He, S., Chen, D., Xie, F., Wang, C., Yang, H., and Li, W., 2024, Regenerated Cellulose/Polyethyleneimine Composite Aerogel for Efficient and Selective Adsorption of Anionic Dyes, *Sep Purif Technol*, 330.
- Haryadi, I., 2006, Menentukan Koefisien Perpindahan Massa Penjerapan Ion Logam Berat Pb(OH)₂ Menggunakan Chitosan, Surakarta.
- He, Z., Song, H., Cui, Y., Zhu, W., Du, K., and Yao, S., 2014, Porous Spherical Cellulose Carrier Modified with Polyethyleneimine and its Adsorption for Cr(III) and Fe(III) From Aqueous Solutions, *Chin J Chem Eng*, 22, 984–990.
- Ho, Y.S. and McKay, G., 1999, Pseudo-second order model for sorption processes, *Process Biochem*.
- Jawad, A.H., Sahu, U.K., Mastuli, M.S., ALOthman, Z.A., and Wilson, L.D., 2024, Multivariable Optimization with Desirability Function for Carbon Porosity and Methylene Blue Adsorption by Watermelon Rind Activated Carbon Prepared by Microwave Assisted H₃PO₄, *Biomass Convers Biorefin*, 14, 577–591.
- Juliantoni, J., Adelina, T., Mirdhayati, I., dan Nurdiansyah, D.H., 2023, Fraksi Serat Ampas Tebu yang Difermentasi dengan Jenis Inokulum yang Berbeda, *Journal of Livestock Science*, 6 (1), 1-7.

- Krisbiantoro, P.A., Santosa, S.J., and Kunarti, E.S., 2017, Synthesis of Facid-Coated Magnetite ($\text{Fe}_3\text{O}_4\text{-FA}$) and its Application for the Reductive Adsorption of $[\text{AuCl}_4]$, *Indonesian Journal of Chemistry*, 17, 453–460.
- Kustiyah, E., Novitasari, D., Andia Wardani, L., Hasaya, H., and Widianoro, M., 2023, Utilization of Sugarcane Bagasses for Making Biodegradable Plastics with the Melt Intercalation Method, *Jurnal Teknologi Limbah*, 24, 300–306.
- Liu, W., Liu, P., Liu, L., Sun, H., Fan, Y., Ma, C., Ouyang, J., and Zheng, Z., 2024, Promoting Microbial Fermentation in Lignocellulosic Hydrolysates by Removal of Inhibitors using MTES and PEI-modified Chitosan-Chitin Nanofiber Hybrid Aerogel, *Carbohydr Polym*, 328.
- Lolo, E.U. dan Pambudi, Y.S., 2020, Penurunan Parameter Pencemar Limbah Cair Industri Tekstil Secara Koagulasi Flokulasi (Studi Kasus: IPAL Kampung Batik Laweyan, Surakarta, Jawa Tengah, Indonesia), *Serambi Engineering*, 5 (4), 1306 -1312 .
- Martilova, D., Nurrahmawati, N., Lisma Sari, N., dan Listari, N., 2024, Kotak Safety Box Bagasse Sebagai Tempat Sampah Limbah Medis Dari Bahan Dasar Limbah Ampas, *Jurnal Pengabdian dan Kemitraan Masyarakat (ALKHIDMAH)*, 2, 2964–6375.
- Mulyadi, 2019, Isolasi dan Karakterisasi Selulosa, *Jurnal Saintika UNPAM*, 1, 177–182.
- Nafi'ah, R., 2016, Kinetika Adsorpsi Pb (II) dengan Adsorben Arang Aktif dari Sabut Siwalan, *Konversi*, 4(1), 17-24.
- Naimah, S., Ardhanie, S.A., Nugroho Jati, B., Nur Aidha dan Agustina Arianita B, 2014, Degradasi Zat Warna pada Limbah Cair Industri Tekstil dengan Metode Fotokatalitik menggunakan Nanokomposit TiO_2 -Zeolit, *Indonesian E-Journal of Applied Chemistry*, 8(1), 16-25.
- Nawangsari, 2019, Isolasi dan Karakterisasi Selulosa Mikrokristal dari Ampas Tebu (*Saccharum Officinarum* L.) , *Pharmakon Jurnal Farmasi Indonesia* 16(2), 67-72.

- Oko, S., Harjanto, H., Kurniawan, A., dan Winanti, C., 2022, Penurunan Kadar Zat Warna Remazol Brilliant Blue R dengan Metode Adsorpsi Menggunakan Serbuk CaCO₃ Dari Cangkang Telur Dan Karbon Aktif, *Metana*, 18, 39–45.
- Pelita, E., Youfa, R., Desniorita, D., Sahaq, A.B., Miftahurrahmah, M., Permadani, R.L., and Jerry, J., 2023, Effect of Dolomite Addition on The Performance of Palm Oil Mill Fly Ash for Methylene Blue Adsorption, *IJCA*, 6, 63–74.
- Prasetyo, Y.A., Rusdiana, T., and Abdassah, M., 2018, Preparation and Characterization of Glucosamine Nanoparticle by Ionic Gelation Method Using Chitosan and Alginate, *Indonesian Journal of Pharmaceutics*, 1(1), 1-10 .
- Pratiwi, S.W., Sari, S.N., Nurmallasari, R., dan Indriani, M., 2020, Utilization of Nata De Coco as Adsorben in Methyl Orange Adsorption, *EduChemia (Jurnal Kimia dan Pendidikan)*, 5(1), 187.
- Qin, W.H., Li, M.X., Zhang, Y.B., Li, W., Jia, R., Xiong, Y.S., Lu, H.Q., and Zhang, S.Y., 2024, High Capacity and Selective Adsorption of Congo red by Cellulose-Based Aerogel with Mesoporous Structure: Adsorption Properties and Statistical Data Simulation, *Int J Biol Macromol*, 259.
- Ramadiani, L.S.R. dan Munasir, 2023, Efektifitas GO-SiO₂/PSF sebagai Membran Filtrasi : Larutan NaCl dan Methylene Blue, *Jurnal Inovasi Fisika Indonesia (IFI)*, 12, 24–29.
- Ranjan, R., Bhatt, S.B., Rai, R., Sharma, S.K., Verma, M., and Dhar, P., 2024, Valorization of Sugarcane Bagasse with In Situ Grown MoS₂ for Continuous Pollutant Remediation and Microbial Decontamination, *Environmental Science and Pollution Research*, 31, 17494- 17510.
- Riapanitra, A., Setyaningtyas, T., dan Riyani, K., 2006, Penentuan Waktu Kontak dan pH Optimum Penyerapan Metilen Biru Menggunakan Abu Sekam Padi, *Journal Volume dan Issue*, 1(1), 41-44.
- Saha, D. and Grappe, H.A., 2017, Adsorption Properties of Activated Carbon Fibers,. In, Activated Carbon Fiber and Textiles, *Elsevier*, 143–165.
- Salah Omer, A., El Naeem, G.A., Abd-Elhamid, A.I., Farahat, O.O.M., El-Bardan, A.A., Soliman, H.M.A., and Nayl, A.A., 2022, Adsorption of Crystal Violet

and Methylene Blue Dyes using a Cellulose-Based Adsorbent from Sugercane Bagasse: Characterization, Kinetic and Isotherm Studies, *Journal of Materials Research and Technology*, 19, 3241–3254.

Savana, R.T., Dina, D., and Maharani, K., 2018, Analisis Komposisi Unsur Pupuk Lepas Lambat Kitosan-Silika-Glutaraldehyd (Element Composition Analysis Chitosan-Silica-Glutaraldehyde Slow Release Fertilizer), *Atlantis Highlights in Engineering (AHE)*, 1, 179-182.

Sebabi, M.O., Mabuba, N., Pillay, K., and Malinga, S.P., 2024, Hyperbranched-Polyethylenimine-Functionalized Coal Fly Ash as an Adsorbent for the Removal of Hexavalent Chromium and Reuse as a Dye Photocatalyst, *ACS Omega*, 9(8), 8954-8972.

Sehaqui, H., Kulansinska, K., Pfenninger, N., Zimmermann, T., and Tingaut, P., 2017, Highly Carboxylated Cellulose Nanofibers via Succinic Anhydride Esterification of Wheat Fibers and Facile Mechanical Disintegration, *Biomacromolecules*, 18, 242-248

Setiati, R., Wahyuningrum, D., Siregar, S., dan Marhaendrajana, T., 2016, Optimasi Pemisahan Lignin Ampas Tebu dengan menggunakan Natrium Hidroksida, *ETHOS (Jurnal Penelitian dan Pengabdian)*, 1(1), 257-264.

Shaltout, W.A., El-Naggar, G.A., Esmail, G., and Hassan, A.F., 2024, Synthesis and Characterization of Ferric Nanocellulose/Nanohydroxyapatite Bio-composite Based on Sea Scallop Shells and Cotton Stalks: Adsorption of Safranin-O dye, *Biomass Convers Biorefin*, 14, 4759–4776.

Slamet, Syakur, R., dan Danumulyo, W., 2010, Pengolahan Limbah Logam Berat Chromium (VI) dengan Fotokatalis TiO₂, *MAKARA of Technology Series*, 7(1), 1-9 .

Suci Anjarwati, M., Meidinariasty, A., dan Yerizam, M., 2023, Sintesis Selulosa Asetat dari Ampas Tebu sebagai Bahan Baku Biodegradable Foam, *Jurnal Serambi Engineering*, 8(2), 12-16.

Syukur, A., Indah, S., dan Komala, P.S., 2023, Studi Kinetika dan Isoterm Adsorpsi Abu Tandan Kosong Kelapa Sawit dalam Penyisihan Warna Air Limbah Pabrik Minyak Kelapa Sawit, *CIVED*, 10(1), 218.

- Tang, A., Yan, C., Chen, S., and Li, D., 2018, Acid-Catalyzed Crosslinking of Cellulose Nanofibers with Glutaraldehyde to Improve the Water Resistance of Nanopaper, *Journal of Bioresources and Bioproducts*, 3(1), 349-362 .
- Verma, R., Maji, P.K., and Sarkar, S., 2023a, Removal of Hexavalent Chromium from Impaired Water: Polyethylenimine-Based Sorbents, *J Environ Chem Eng*, 11(2), 109598 .
- Widayatno, T., Yuliawati, T., dan Susilo, A.A., 2017, Adsorpsi Logam Berat (Pb) dari Limbah Cair dengan Adsorben Arang Bambu Aktif, *Jurnal Teknologi Bahan Alam*, 1(1),17-23 .
- Yun, H., Jung, S., Choi, J., Cho, S.Y., and Kwak, H.W., 2024, Highly Efficient Sorbent Utilizing Regenerated Cellulose as an Eco-friendly Template for Humic Acid Removal and Oil–Water Separation Processes, *Sep Purif Technol*, 341, 126812.
- Zhou, W., Carlson, K., Wu, Q., Wang, X., Xu, S., and Li, Z., 2023, Sorption of Alizarin Red S and Methylene Blue on Halloysite from Single and Mixed Solutions, *Crystals (Basel)*, 13(4), 664.