

## DAFTAR PUSTAKA

- [1] A. Ali *dkk.*, “The Burden of Cancer, Government Strategic Policies, and Challenges in Pakistan: A Comprehensive Review,” *Front. Nutr.*, vol. 9, hlm. 940514, Jul 2022, doi: 10.3389/fnut.2022.940514.
- [2] E. Bidram *dkk.*, “A concise review on cancer treatment methods and delivery systems,” *J. Drug Deliv. Sci. Technol.*, vol. 54, hlm. 101350, Des 2019, doi: 10.1016/j.jddst.2019.101350.
- [3] M. Le Goas *dkk.*, “Improving <sup>131</sup>I Radioiodine Therapy By Hybrid Polymer-Grafted Gold Nanoparticles,” *Int. J. Nanomedicine*, vol. Volume 14, hlm. 7933–7946, Sep 2019, doi: 10.2147/IJN.S211496.
- [4] M. Moritz dan M. Łaniecki, “Application of SBA-15 mesoporous material as the carrier for drug formulation systems. Papaverine hydrochloride adsorption and release study,” *Powder Technol.*, vol. 230, hlm. 106–111, Nov 2012, doi: 10.1016/j.powtec.2012.06.061.
- [5] A. Szewczyk, M. Prokopowicz, W. Sawicki, D. Majda, dan G. Walker, “Aminopropyl-functionalized mesoporous silica SBA-15 as drug carrier for cefazolin: adsorption profiles, release studies, and mineralization potential,” *Microporous Mesoporous Mater.*, vol. 274, hlm. 113–126, Jan 2019, doi: 10.1016/j.micromeso.2018.07.046.
- [6] S. M. Hafezian, “Amine and thiol functionalization of SBA-15 nanoparticles for highly efficient adsorption of sulforaphane,” *Adv. Powder Technol.*, 2021.
- [7] A. N. Ebelegi, N. Ayawei, dan D. Wankasi, “Interpretation of Adsorption Thermodynamics and Kinetics,” *Open J. Phys. Chem.*, vol. 10, no. 03, hlm. 166–182, 2020, doi: 10.4236/ojpc.2020.103010.
- [8] M. C. Prihatiningsih, T. Ariyanto, E. G. R. Putra, V. Y. Susilo, I. Mahendra, dan I. Prasetyo, “Radioiodination of Modified Porous Silica Nanoparticles as a Potential Candidate of Iodine-131 Drugs Vehicle,” *ACS Omega*, vol. 7, no. 16, hlm. 13494–13506, Apr 2022, doi: 10.1021/acsomega.1c06492.
- [9] T. M. Albayati, I. K. Salih, dan H. F. Alazzawi, “Synthesis and characterization of a modified surface of SBA-15 mesoporous silica for a chloramphenicol drug delivery system,” *Heliyon*, vol. 5, no. 10, hlm. e02539, Okt 2019, doi: 10.1016/j.heliyon.2019.e02539.
- [10] M. Anbia dan S. Amirmahmoodi, “Adsorption of phenolic compounds from aqueous solutions using functionalized SBA-15 as a nano-sorbent,” *Sci. Iran.*, vol. 18, no. 3, hlm. 446–452, Jun 2011, doi: 10.1016/j.scient.2011.05.007.
- [11] A. Shahbazi, H. Younesi, dan A. Badiei, “Functionalized SBA-15 mesoporous silica by melamine-based dendrimer amines for adsorptive characteristics of Pb(II), Cu(II) and Cd(II) heavy metal ions in batch and fixed bed column,” *Chem. Eng. J.*, vol. 168, no. 2, hlm. 505–518, Apr 2011, doi: 10.1016/j.cej.2010.11.053.
- [12] R. H. Seevers dan R. E. Counsell, “Radioiodination techniques for small organic molecules,” *Chem. Rev.*, vol. 82, no. 6, hlm. 575–590, Des 1982, doi: 10.1021/cr00052a002.
- [13] U. Lee, M. J. Kim, dan H. R. Kim, “Radioactive iodine analysis in environmental samples around nuclear facilities and sewage treatment plants,”



- Nucl. Eng. Technol.*, vol. 50, no. 8, hlm. 1355–1363, Des 2018, doi: 10.1016/j.net.2018.07.017.
- [14] A. H. Kartamihardja, “Pertemuan Ilmiah Tahunan Perhimpunan Ahli Bedah Onkologi Indonesia XX Makasar, 25-26 Nopember 201”.
- [15] M. Davidson, Y. Ji, G. J. Leong, N. C. Kovach, B. G. Trewyn, dan R. M. Richards, “Hybrid Mesoporous Silica/Noble-Metal Nanoparticle Materials—Synthesis and Catalytic Applications,” *ACS Appl. Nano Mater.*, vol. 1, no. 9, hlm. 4386–4400, Sep 2018, doi: 10.1021/acsanm.8b00967.
- [16] Y.-C. Chiang *dkk.*, “A Mesoporous Silica Biomaterial for Dental Biomimetic Crystallization,” *ACS Nano*, vol. 8, no. 12, hlm. 12502–12513, Des 2014, doi: 10.1021/nn5053487.
- [17] “ELECTROCHEMICAL PROPERTIES OF MESOPOROUS SILICA (SBA-15)-CARBON ELECTRODE,” *Malays. J. Anal. Sci.*, vol. 23, no. 2, Apr 2019, doi: 10.17576/mjas-2019-2302-03.
- [18] A. Galarneau, H. Cambon, F. Di Renzo, R. Ryoo, M. Choi, dan F. Fajula, “Microporosity and connections between pores in SBA-15 mesostructured silicas as a function of the temperature of synthesis,” *New J. Chem.*, vol. 27, no. 1, hlm. 73–79, Jan 2003, doi: 10.1039/b207378c.
- [19] A. Sayari dan Y. Yang, “SBA-15 Templated Mesoporous Carbon: New Insights into the SBA-15 Pore Structure,” *Chem. Mater.*, vol. 17, no. 24, hlm. 6108–6113, Nov 2005, doi: 10.1021/cm050960q.
- [20] “41900096 bioPLUS.” [Daring]. Tersedia pada: <https://www.bio-world.com/salts/sodium-iodide-p-41900096>
- [21] W. C. Mann, “INTERACTIONS OF HALOGENS WITH AMINES”.
- [22] J. H. Fendler, S. Amelinckx, D. van Dyck, J. van Landuyt, G. van Tendeloo, dan N. J. DiNardo, “Other titles of interest,” 2000.
- [23] B. J. Inkson, “Scanning electron microscopy (SEM) and transmission electron microscopy (TEM) for materials characterization,” dalam *Materials Characterization Using Nondestructive Evaluation (NDE) Methods*, Elsevier, 2016, hlm. 17–43. doi: 10.1016/B978-0-08-100040-3.00002-X.
- [24] S. O. Wijayanto dan A. P. Bayuseno, “ANALISIS KEGAGALAN MATERIAL PIPA FERRULE NICKEL ALLOY N06025 PADA WASTE HEAT BOILER AKIBAT SUHU TINGGI BERDASARKAN PENGUJIAN : MIKROGRAFI DAN KEKERASAN,” vol. 2, no. 1, 2014.
- [25] D. R. Adhika, A. L. Anindya, V. V. Tanuwijaya, dan H. Rachmawati, “Teknik Pengamatan Sampel Biologi dan Non-konduktif Menggunakan,” 2018.
- [26] Z. Guo dan L. Tan, *Fundamentals and applications of nanomaterials*. dalam Artech House nanoscale science and engineering. Boston: Artech House, 2009.
- [27] S. D. Anggraeni, “SINTESIS Al<sub>2</sub>O<sub>3</sub> NANOPARTIKEL MENGGUNAKAN METODE ELEKTROKIMIA DALAM LARUTAN NATRIUM SITRAT,” 2018.
- [28] L. Sheikh, “Study of novel nanomagnetic hydroxyapatite as a potent biomedical System,” 2015, doi: 10.13140/RG.2.1.1349.2963.
- [29] E. Ortiz Ortega, H. Hosseinian, M. J. Rosales López, A. Rodríguez Vera, dan S. Hosseini, “Characterization Techniques for Chemical and Structural



- Analyses,” dalam *Material Characterization Techniques and Applications*, vol. 19, dalam *Progress in Optical Science and Photonics*, vol. 19, , Singapore: Springer Singapore, 2022, hlm. 93–152. doi: 10.1007/978-981-16-9569-8\_4.
- [30] N. M. S. Sanjiwani *dkk.*, “PEMBUATAN HAIR TONIC BERBAHAN DASAR LIDAH BUAYA DAN ANALISIS DENGAN FOURIER TRANSFORM INFRARED,” Apr 2020, doi: 10.5281/ZENODO.3756902.
- [31] L. B. H. Rahayu, “Untuk Memenuhi Persyaratan Memperoleh Gelar Magister,” 2017.
- [32] R. Sharma, D. P. Bisen, U. Shukla, dan B. G. Sharma, “X-ray diffraction: a powerful method of characterizing nanomaterials,” *Recent Res. Sci. Technol.*, 2012.
- [33] “3766-9593-1-SM.pdf.”
- [34] H. Patel, “Comparison of batch and fixed bed column adsorption: a critical review,” *Int. J. Environ. Sci. Technol.*, vol. 19, no. 10, hlm. 10409–10426, Okt 2022, doi: 10.1007/s13762-021-03492-y.
- [35] S. Raghav dan D. Kumar, “Adsorption Equilibrium, Kinetics, and Thermodynamic Studies of Fluoride Adsorbed by Tetrametallic Oxide Adsorbent,” *J. Chem. Eng. Data*, vol. 63, no. 5, hlm. 1682–1697, Mei 2018, doi: 10.1021/acs.jced.8b00024.
- [36] “STUDI PENURUNAN KADAR LOGAM KROMIUM (Cr) DALAM LIMBAH BUATAN ELEKTROPLATING MENGGUNAKAN METODE PRESIPITASI DAN ADSORPSI.pdf.”
- [37] A. Hijazi, B. Azambre, G. Finqueneisel, F. Vibert, dan J. L. Blin, “High iodine adsorption by polyethyleneimine impregnated nanosilica sorbents,” *Microporous Mesoporous Mater.*, vol. 288, hlm. 109586, Nov 2019, doi: 10.1016/j.micromeso.2019.109586.
- [38] A. L.-T. Pham, D. L. Sedlak, dan F. M. Doyle, “Dissolution of mesoporous silica supports in aqueous solutions: Implications for mesoporous silica-based water treatment processes,” *Appl. Catal. B Environ.*, vol. 126, hlm. 258–264, Sep 2012, doi: 10.1016/j.apcatb.2012.07.018.
- [39] “Fundamentals of Analytical Chemistry.pdf.”
- [40] “Studies on Adsorption Indicators II. Substitltted Dibromotetrachlorophthali~es in Argentometric Titrations.pdf.”
- [41] M. Hadi Dehghani, R. R. Karri, dan E. Lima, *Green technologies for the defluoridation of water*. San Diego: Elsevier, 2021.
- [42] “Adsorption isotherm models A comprehensive and systematic review (2010–2020).pdf.”
- [43] N. Sariana Sarana Miri dan Narimo, “Review : Equation Study of Langmuir and Freundlich Isotherms on Adsorption of Heavy Metal Fe (II) with Zeolite and Activated Carbon from Biomass: Review : Kajian Persamaan Isoterm Langmuir dan Freundlich pada Adsorpsi Logam Berat Fe (II) dengan Zeolit dan Karbon Aktif dari Biomassa,” *J. Kim. Dan Rekayasa*, vol. 2, no. 2, hlm. 58–71, Jan 2022, doi: 10.31001/jkireka.v2i2.36.
- [44] M. Chabani, A. Amrane, dan A. Bensmaili, “Kinetic modelling of the adsorption of nitrates by ion exchange resin,” *Chem. Eng. J.*, vol. 125, no. 2, hlm. 111–117, Des 2006, doi: 10.1016/j.cej.2006.08.014.



- [45] "AdsorptionanditsIsothermTheory.pdf."
- [46] P. Tarapitakcheevin, P. Weerayuttil, dan K. Khuanmar, "Adsorption of Acid Dye on Activated Carbon Prepared from Water Hyacinth by Sodium Chloride Activation," 2013.
- [47] D. A.O, "Langmuir, Freundlich, Temkin and Dubinin–Radushkevich Isotherms Studies of Equilibrium Sorption of Zn 2+ Unto Phosphoric Acid Modified Rice Husk," *IOSR J. Appl. Chem.*, vol. 3, no. 1, hlm. 38–45, 2012, doi: 10.9790/5736-0313845.
- [48] M. Islam dan R. Patel, "Nitrate sorption by thermally activated Mg/Al chloride hydrotalcite-like compound," *J. Hazard. Mater.*, vol. 169, no. 1–3, hlm. 524–531, Sep 2009, doi: 10.1016/j.jhazmat.2009.03.128.
- [49] N. F. Al-Harby, E. F. Albahly, dan N. A. Mohamed, "Kinetics, Isotherm and Thermodynamic Studies for Efficient Adsorption of Congo Red Dye from Aqueous Solution onto Novel Cyanoguanidine-Modified Chitosan Adsorbent," *Polymers*, vol. 13, no. 24, hlm. 4446, Des 2021, doi: 10.3390/polym13244446.
- [50] M. Musah, Y. Azeh, J. Mathew, M. Umar, Z. Abdulhamid, dan A. Muhammad, "Adsorption Kinetics and Isotherm Models: A Review," *Caliphate J. Sci. Technol.*, vol. 4, no. 1, hlm. 20–26, Feb 2022, doi: 10.4314/cajost.v4i1.3.
- [51] M. Kostoglou dan T. D. Karapantsios, "Why Is the Linearized Form of Pseudo-Second Order Adsorption Kinetic Model So Successful in Fitting Batch Adsorption Experimental Data?," *Colloids Interfaces*, vol. 6, no. 4, hlm. 55, Okt 2022, doi: 10.3390/colloids6040055.
- [52] R. Simanjuntak, "JURNAL ILMIAH KOHESI Vol. 2 No.4 Oktober 2018," vol. 2, 2018.
- [53] L. You, F. Yuan, dan F. Ma, "Synthesis of mesoporous NH<sub>2</sub>-SBA-15 by a simple and efficient strategy," *Russ. J. Phys. Chem. A*, vol. 89, no. 12, hlm. 2298–2303, Des 2015, doi: 10.1134/S0036024415120183.
- [54] R. Dwistika, "KARAKTERISTIK NANOPARTIKEL PERAK HASIL PRODUKSI DENGAN TEKNIK ELEKTROLISIS BERDASARKAN UJI SPEKTROFOTOMETER UV-VIS DAN PARTICLE SIZE ANALYZER (PSA)".
- [55] "Bhuyan - 2015 - Facile synthesis of gold nanoparticles on propylam.pdf."

