



BIBLIOGRAPHY

- Adi H, Dipta, Cuti Winarti, Warsiyah. 2018. Quality Of Organic Fertilizer Waste Coconut And Coffee On Plant Growth. *J. Rek. Ling.* Vol. 18, No. 2, 1 - 18
- Atkins P. and Paula J. de. 2006. *Physical Chemistry*. W. H. Freeman and Company: New York.
- Basu, Sankhadeep; Gourab Ghosha, Sudeshna Saha. 2018. *Adsorption Characteristics Of Phosphoric Acid Induced Activation Of Bio-Carbon: Equilibrium, Kinetics, Thermodynamics And Batch Adsorber Design*. Department of Chemical Engineering Department, Jadavpur University, Kolkata, India
- Chen T, Zhou Z, Han R, Meng R, Wang H and Lu W. 2015. *Chemsphr.* P.134-286
- Chou, Wei-Lung & Wang, Chih-Ta & Huang, Kai-Yu & Chang, Ya-Chieh & Shu, C.M.. 2012. Investigation of indium ions removal from aqueous solutions using spent coffee grounds. *Int j phy sci.* Vol. 7. P. 2445-2454.
- Cornell, R.M. dan Schwertmann, U.. 2003. *The Iron Oxides: Structure, Properties, Reactions, Occurrences and Uses*. John Wiley & Sons: New York.
- Cotton F. A. and Wilkinson G. 1989. *Kimia Anorganik Dasar*. UI press: Jakarta.
- Dai, Yingjie; Danfeng Zhang; Kexin Zhang. 2016. Nitrobenzene-adsorption capacity of NaOH-modified spent coffee ground from aqueous solution. *J. of the Tai. Ins. of Chemeng.* Vol. 68. P. 232-238
- Fadilah N. 2013. *Penurunan Kadar Ion Cd(II) Dalam Larutan Menggunakan Karbon Aktif Dari Tempurung Biji Nyamplung (Calophyllum inophyllum L)*. Thesis. Institut Teknologi Sepuluh Nopember.
- G. Samudro, and J. Junaidi. 2012. Studi Penurunan Konsentrasi Nikel Dan Tembaga Pada Limbah Cair Elektroplating Dengan Metode Elektrokoagulasi. *Jurnal Presipitasi : Media Komunikasi dan Pengembangan Teknik Lingkungan.* Vol. 9. No. 2. 96-106
- Hadoun H., Sadaoui Z., Souami N., Sahel D. and Toumert I. 2013. Characterization of mesoporous carbon prepared from date stems by H₃PO₄ chemical activation. *Appl. Surf. Sci.* Vol. 280. P. 1-7.
- Ho Y. S. and Wang C. C. 2004. Pseudo-isotherm for the sorption of cadmium ion onto tree fern. *Process Biochem.* Vol. 39. P. 759- 763.



- Hussain, Naem; Suchada Chantrapromma; Khamphe Phoungthong; Thitipone Suwunwong. 2020. Cadmium (II) Removal from Aqueous Solution Using Magnetic Spent Coffee Ground Biochar: Kinetics, Isotherm and Thermodynamic Adsorption. *Mater. Res. Express* in press
- Iconaru Simona Liliana, Régis Guégan, Cristina Liana Popa, Mikael Motelica-Heino, Carmen Steluta Ciobanu, Daniela Predoi. 2016. Magnetite (Fe₃O₄) nanoparticles as adsorbents for As and Cu removal. *App. Clay Sci.*. Vol. 134. P. 128-135
- Inbaraj, S., Chen, B.H.. 2011. Dye adsorption characteristics of magnetite nanoparticles coated with a biopolymer poly(c-glutamic acid). *Bioresource Technol.* Vol. 102. P. 8868–8876.
- Jiang, Haoyuan; Simiao Wu; Jizhi Zhou. 2023. Preparation and modification of nanocellulose and its application to heavy metal adsorption: A review. *International Journal of Biological Macromolecules*. Volume 236.
- JU, Shao-hua & Lu, Shuaidan & PENG, Jin-hui & ZHANG, Li-bo & Srinivasakannan, Chandrasekar & GUO, Sheng-hui & LI, Wei. 2012. Removal of cadmium from aqueous solutions using red mud granulated with cement. *Transactions of Nonferrous Metals Society of China*. Vol. 22. P. 3140–3146.
- Li H, Dong X, da Silva E B, de Oliveira L M, Chen Y and Ma L Q. 2017. *Chemosphere*. P. 178 - 466
- Loulidi, Ilyasse, Maria Jabri, Abdelouahed Amar, Abderahim Kali, Awad A. Alrashdi, Chaimaa Hadey, Mbarka Ouchabi, Palsan Sannasi Abdullah, Hassane Lgaz, Youngjae Cho, and et al. 2023. Comparative Study on Adsorption of Crystal Violet and Chromium (VI) by Activated Carbon Derived from Spent Coffee Grounds. *Applied Sciences*. Vol. 13. No. 2. P. 985
- Kim, M.-S.; Kim, J.-G. 2020. Adsorption Characteristics of Spent Coffee Grounds as an Alternative Adsorbent for Cadmium in Solution. *Environments*. Vol. 7. P. 24.
- Mashkoo, Fouzia & Nasar, Abu & Jeong, Changyoon. 2022. Magnetized chitosan nanocomposite as an effective adsorbent for the removal of methylene blue and malachite green dyes. *Biomass Conversion and Biorefinery*. Vol. 14. P. 1-13
- Mat, Siti & Syed Zuber, Sharifah Zati Hanani & Enche Ab Rahim, Siti Kartini & Syairah, Khairunissa & Abdul Halim, Noor Amirah & Zainudin, Nor Fauziah & Yusoff, Nor Aida & Rohaizad, Nor & Ishak, Noorhidayah & Anuar, Adilah & Md Sarip, Mohd Sharizan. 2018. Malachite Green Adsorption by Spent Coffee Grounds. *IOP Conference Series: Materials Science and Engineering*. P. 318
- Milanković, V., Tasić, T., Pejčić, M., Pašti, I., & Lazarević-Pašti, T. 2023. Spent Coffee Grounds as an Adsorbent for Malathion and Chlorpyrifos-Kinetics,



- Thermodynamics, and Eco-Neurotoxicity. *Foods (Basel, Switzerland)*. Vol. 12. No. 12. P. 2397
- Mora Alvarez N M, Pastrana J M, Lagos Y and Lozada J J. 2018. *Chem. Pharm.* P. 10-60
- Nafi'ah, R.. 2016. Kinetika Adsorpsi Pb(II) dengan Adsorben Arang Aktif dari Sabut Siwalan. *J. Farm. Sains dan Praktis*. Vol. I. P. 1–10
- Oscik, J.. 1982. *Adsorption*. Ellis Harwood Limited Publisher. Cheester, John Willey and Sons: New York.
- Qiu H., Pan B., Zhang Q., Zha W. and Zhang Q. 2009. Critical review in adsorption kinetic models. *J Zhejiang Univ Sc A*. Vol. 10. P. 716–724
- Rendo, D.. 2021. Adsorption of Methylene Blue Dye using Fe₃O₄ Magnetized Natural Zeolite Adsorbent. *Jurnal Kimia Sains dan Aplikasi*. Vol. 24. No. 2. P. 51-57
- Reza R A and Ahmaruzzaman M. 2015. A novel synthesis of Fe₂O₃ activated carbon composite and its exploitation for the elimination of carcinogenic textile dye from an aqueous phase. *RSC Adv*. Vol. 5. P. 10575-86
- Rouessac F. and Rouessac A. 2007. *Chemical Analysis : Modern Instrumentation Methods and Techniques*. 2nd ed., John Wiley & Sons, Ltd: France
- Saman, Norasikin & Johari, Khairiraihanna & Song, Shiow-Tien & Mat, Hanapi. 2015. Silver Adsorption Enhancement from Aqueous and Photographic Waste Solutions by Mercerized Coconut Fiber. *Separation Science and Technology*. Vol. 50.
- Sartika, Dewi. 2016. Sifat Magnetik Adsorben Nanopartikan Fe₃O₄ Terhadap Adsorpsi Logam Berat (Co Dan Fe) Dalam Larutan. *Seminar Nasional Pendidikan 2016*. ISSN : 2527 – 5917, Vol.1
- Tang, Shuxiong & Chen, Yao & Xie, Ruzhen & Jiang, Wenju & Jiang, Yanxin. 2016. Preparation of activated carbon from corn cob and its adsorption behavior on Cr (VI) removal. *Water Science and Technology*. Vol. 73
- Webb, Paul A. 2003. *Introduction to Chemical Adsorption Analytical Techniques and their Applications to Catalysis*. MIT Technical Publications. Micromeritics Instrument Corp., Norcross, Georgia 30093
- WHO .2010. *Exposure To Cadmium : A Major Public Health Concern*. *Public Health Environ.*
- Wu X L, Wang L, Chen C L, Xu A W and Wang X K. 2011. *J. Mater. Chem.* 21 17353



- Xin H., Nai-yun G. and Qiao-li Z. 2007. Thermodynamics and kinetics of cadmium adsorption onto oxidized granular activated carbon. *J. Environmental Sci.* Vol. 19. P. 1287–1292
- Yu C, Wang M, Dong X, Shi Z, Zhang X and Lin Q. 2017. *RSC Adv.* 7 53135
- Yudha S P, Tekasakul S, Phoungthong K and Chuenchom L. 2019. *Mater. Res. Express* 6. 125526
- Zaman Khan, Amina Elahi, Dilara A. Bukhari, Abdul Rehman. 2022. Cadmium sources, toxicity, resistance and removal by microorganisms-A potential strategy for cadmium eradication. *J. of Saud. Chem Soc.* Vol. 26. Issue 6.
- Zhang, G., Qu, J., Liu, H., Cooper, A.T., Wu, R.. 2007. CuFe₂O₄/activated carbon composite: a novel magnetic adsorbent for the removal of acid orange II and catalytic regeneration. *Chemosphere.* Vol. 68. P. 1058–1066
- Zhang, X., Lin, X., He, Y., Chen, Y., Luo, X., and Shang, R.. 2019. Study on Adsorption Of Tetracycline By Cu-Immobilized Alginate Adsorbent From Water Environment. *Int. J. Biol Macromol.* Vol. 124. P. 418–428
- Zhong L S, Hu J S, Liang H P, Cao A M, Song W G and Wan L J. 2006. *Adv. Mater.* Vol. 18. No. 517. P. 2426