

5. References

- [1] A. Celik and A. Demirbaş, "Removal of heavy metal ions from aqueous solutions via adsorption onto modified lignin from pulping wastes," *Energy Sources*, vol. 27, no. 12, pp. 1167–1177, 2005, doi: 10.1080/00908310490479583.
- [2] C. Liu and R. Bai, "Adsorptive removal of copper ions with highly porous chitosan/cellulose acetate blend hollow fiber membranes," *J. Memb. Sci.*, vol. 284, no. 1–2, pp. 313–322, 2006, doi: 10.1016/j.memsci.2006.07.045.
- [3] S. Kamaruzaman, N. I. Fikrah Aris, N. Yahaya, L. S. Hong, and M. Raznisyafiq Razak, "Removal of Cu (II) and Cd (II) Ions from Environmental Water Samples by Using Cellulose Acetate Membrane," *J. Environ. Anal. Chem.*, vol. 04, no. 04, 2017, doi: 10.4172/2380-2391.1000220.
- [4] N. A. Abdelwahab, N. S. Ammar, and H. S. Ibrahim, "Graft copolymerization of cellulose acetate for removal and recovery of lead ions from wastewater," *Int. J. Biol. Macromol.*, vol. 79, pp. 913–922, 2015, doi: 10.1016/j.ijbiomac.2015.05.022.
- [5] A. Jamshaid et al., "Cellulose-based Materials for the Removal of Heavy Metals from Wastewater - An Overview," *ChemBioEng Rev.*, vol. 4, no. 4, pp. 240–256, 2017, doi: 10.1002/cben.201700002.
- [6] I. K. I. Al-khateeb, S. M. Hussin, and Y. M. Al-obaidi, "Extraction of Cellulose Nano Crystalline from Cotton by Ultrasonic and Its Morphological and Structural Characterization," *Int. J. Mater. Chem. Phys.*, vol. 1, no. 2, pp. 99–109, 2015.
- [7] M. P. Egot and A. C. Alguno, "Preparation and characterization of cellulose acetate from pineapple (*Ananas comosus*) leaves," *Key Eng. Mater.*, vol. 772 KEM, no. July, pp. 8–12, 2018, doi: 10.4028/www.scientific.net/KEM.772.8.
- [8] N. H. Chung, N. Van Binh, and L. Q. Dien, "Preparation of nanocellulose acetate from bleached hardwood pulp and its application for seawater desalination," *Vietnam J. Chem.*, vol. 58, no. 3, pp. 281–286, 2020, doi: 10.1002/vjch.201900013.
- [9] M. P. Filippov, G. a Shkolenko, and R. Kohn, "Determination of esterification degree of pectin of different origin and composition by method of infrared spectroscopy," *Chem. Zvesti*, vol. 32, no. 2, pp. 218–222, 1978.
- [10] M. Filippov and R. Kohn, "Determination of esterification degree of carboxyl groups of pectin with methanol by means of infrared spectroscopy," *Chem. Zvesti*, vol. 29, no. 1, pp. 88–91, 1975, [Online]. Available: <http://www.chempap.org/index.php?id=7&paper=5409>.
- [11] L. Zhang, Y. H. Zhao, and R. Bai, "Development of a multifunctional membrane for chromatic warning and enhanced adsorptive removal of heavy metal ions: Application to cadmium," *J. Memb. Sci.*, vol. 379, no. 1–2, pp. 69–79, 2011, doi: 10.1016/j.memsci.2011.05.044.
- [12] J. L. Zatz and B. Knowles, "Effect of ph on monolayers of cellulose acetate phthalate," *J. Pharm. Sci.*, vol. 59, no. 12, pp. 1750–1751, 1970, doi: 10.1002/jps.2600591208.