

DAFTAR PUSTAKA

- Aguado, D., Barat, R., Bouzas, A., Seco, A., & Ferrer, J. (2019). P-recovery in a pilot-scale struvite crystallisation reactor for source separated urine systems using seawater and magnesium chloride as magnesium sources. *Science of the Total Environment*, 672, 88–96. <https://doi.org/10.1016/j.scitotenv.2019.03.485>
- Agung, T., Sutan, H., Prodi, W., Lingkungan, T., Sipil, T., Universitas, P., Nasional, P., Veteran, ", Timur, J., Raya, J., Madya, R., & Surabaya, G. A. (2010). Pengolahan Air Limbah Industri Tahu Dengan Menggunakan Teknologi Plasma. In *Jurnal Ilmiah Teknik Lingkungan* (Vol. 2, Issue 2).
- Ali, F., Tian, K., & Wang, Z. X. (2021). Modern techniques efficacy on tofu processing: A review. In *Trends in Food Science and Technology* (Vol. 116, pp. 766–785). Elsevier Ltd. <https://doi.org/10.1016/j.tifs.2021.07.023>
- Bennett, E. M., & Schipanski, M. E. (2013). The Phosphorus Cycle. In *Fundamental of Ecosystem Science* (pp. 159–178). <https://doi.org/10.1016/B978-0-08-091680-4.00008-110.1088/1748-9326/6/1/01400910.1029/2009GB003587>
- Bianchi, L., Kirwan, K., Alibardi, L., Pidou, M., & Coles, S. R. (2020). Recovery of ammonia from wastewater through chemical precipitation: Investigating the kinetic mechanism and reactions pathway of struvite decomposition. *Journal of Thermal Analysis and Calorimetry*, 142(3), 1303–1314. <https://doi.org/10.1007/s10973-019-09108-5>
- Çelen, I., & Türker, M. (2001). Recovery of ammonia as struvite from anaerobic digester effluents. *Environmental Technology (United Kingdom)*, 22(11), 1263–1272. <https://doi.org/10.1080/09593332208618192>
- Chen, Y., Mao, W., Yang, W., Niazi, N. K., Wang, B., & Wu, P. (2023). A novel phosphate rock-magnetic biochar for Pb²⁺ and Cd²⁺ removal in wastewater: Characterization, performance and mechanisms. *Environmental Technology and Innovation*, 32. <https://doi.org/10.1016/j.eti.2023.103268>

- Dhakal, S. (2008). *A laboratory study of struvite precipitation for phosphorus removal from concentrated animal feeding operation wastewater removal from concentrated animal feeding operation wastewater*. https://scholarsmine.mst.edu/masters_theseshttps://scholarsmine.mst.edu/masters_theses/6724
- Faisal, M., Gani, A., Mulana, F., & Daimon, H. (2016). Treatment and utilization of industrial tofu waste in Indonesia. *Asian Journal of Chemistry*, 28(3), 501–507. <https://doi.org/10.14233/ajchem.2016.19372>
- Gong, Y., & Zhao, D. (2013). Physical–Chemical Processes for Phosphorus Removal and Recovery. In *Comprehensive Water Quality and Purification* (pp. 196–222). Elsevier. <https://doi.org/10.1016/B978-0-12-382182-9.00086-4>
- González-Morales, C., Fernández, B., Molina, F. J., Naranjo-Fernández, D., Matamoros-Veloza, A., & Camargo-Valero, M. A. (2021). Influence of pH and temperature on struvite purity and recovery from anaerobic digestate. *Sustainability (Switzerland)*, 13(19). <https://doi.org/10.3390/su131910730>
- Grini, T. (2018). *Seawater as Magnesium Source for Struvite Crystallization in Wastewater*. Norwegian University of Science and Technology.
- Ha, T. H., Mahasti, N. N. N., Lu, M. C., & Huang, Y. H. (2023). Ammonium-nitrogen recovery as struvite from swine wastewater using various magnesium sources. *Separation and Purification Technology*, 308. <https://doi.org/10.1016/j.seppur.2022.122870>
- Hongyang, S., Yalei, Z., Chunmin, Z., Xuefei, Z., & Jinpeng, L. (2011). Cultivation of Chlorella pyrenoidosa in soybean processing wastewater. *Bioresource Technology*, 102(21), 9884–9890. <https://doi.org/10.1016/j.biortech.2011.08.016>
- Hu, Q., He, L., Lan, R., Feng, C., & Pei, X. (2023). Recent advances in phosphate removal from municipal wastewater by electrocoagulation process: A review. In *Separation and Purification Technology* (Vol. 308). Elsevier B.V. <https://doi.org/10.1016/j.seppur.2022.122944>

- Hu, Z. Q., Wang, A. M., & Zhang, H. F. (2017). Amorphous Materials. In *Modern Inorganic Synthetic Chemistry: Second Edition* (pp. 641–667). Elsevier Inc. <https://doi.org/10.1016/B978-0-444-63591-4.00022-7>
- Kumar, R., & Pal, P. (2015). Assessing the feasibility of N and P recovery by struvite precipitation from nutrient-rich wastewater: a review. *Environmental Science and Pollution Research*, 22(22), 17453–17464. <https://doi.org/10.1007/s11356-015-5450-2>
- Lahav, O., Telzhensky, M., Zewuhn, A., Gendel, Y., Gerth, J., Calmano, W., & Birnhack, L. (2013). Struvite recovery from municipal-wastewater sludge centrifuge supernatant using seawater NF concentrate as a cheap Mg(II) source. *Separation and Purification Technology*, 108, 103–110. <https://doi.org/10.1016/j.seppur.2013.02.002>
- Le Corre, K. S., Valsami-Jones, E., Hobbs, P., & Parsons, S. A. (2009). Phosphorus Recovery From Wastewater By Struvite Crystallisation: A Review. In *Critical Reviews in Environmental Science and Technology* (Vol. 39, Issue 6).
- Lee, C. C., & Lin, S. D. (2007). *Handbook of Environmental Engineering Calculations*. McGraw-Hill.
- Liu, B., Giannis, A., Zhang, J., Chang, V. W. C., & Wang, J. Y. (2013). Characterization of induced struvite formation from source-separated urine using seawater and brine as magnesium sources. *Chemosphere*, 93(11), 2738–2747. <https://doi.org/10.1016/j.chemosphere.2013.09.025>
- Liu, X., Hu, Z., Mu, J., Zang, H., & Liu, L. (2014). Phosphorus recovery from urine with different magnesium resources in an air-agitated reactor. *Environmental Technology (United Kingdom)*, 35(22), 2781–2787. <https://doi.org/10.1080/09593330.2014.921732>
- Liu, Y., & Chen, J. (2008). Phosphorus Cycle. In *Global Ecology* (pp. 2715–2724). Elsevier.
- Mackey, K. R. M. (2009). Phosphorus Cycle. In *Encyclopedia of Microbiology* (3rd ed., pp. 322–334). Elsevier.

- Martens, D. A. (2005). Denitrification. In *Encyclopedia of Soils in the Environment* (pp. 378–382). Elsevier.
- Mehedi, I. M., Ismail, S. bin, Shahrir, M., Zahari, M., Al-Saggaf, U. M., Alam, M. M., & Al-Saggaf, A. U. (2022). Removal of Ammonical Nitrogen From Landfill Leachates. *United States Patent*.
- Nilawati, D. (2021). *Tofu Processing Wastewater Treatment using Anaerobic Fixed Bed Reactor with Bamboo as the Biofilm Carrier* [Kanazawa University]. <http://hdl.handle.net/2297/00063311>
- Parsons, C., Stüeken, E. E., Rosen, C. J., Mateos, K., & Anderson, R. E. (2021). Radiation of nitrogen-metabolizing enzymes across the tree of life tracks environmental transitions in Earth history. *Geobiology*, 19(1), 18–34. <https://doi.org/10.1111/gbi.12419>
- Romillac, N. (2019). Ammonification. In *Encyclopedia of Ecology* (Vol. 2, pp. 256–263). Elsevier. <https://doi.org/10.1016/B978-0-12-409548-9.10889-9>
- Ruttenberg, K. C. (2019). Phosphorus Cycle. In *Encyclopedia of Ocean Sciences, Third Edition: Volume 1-5* (Vols. 1–5, pp. V1-447-V1-460). Elsevier. <https://doi.org/10.1016/B978-0-12-409548-9.10807-3>
- Shaddel, S., Grini, T., Ucar, S., Azrague, K., Andreassen, J. P., & Østerhus, S. W. (2020). Struvite crystallization by using raw seawater: Improving economics and environmental footprint while maintaining phosphorus recovery and product quality. *Water Research*, 173. <https://doi.org/10.1016/j.watres.2020.115572>
- Siciliano, A., Limonti, C., Curcio, G. M., & Molinari, R. (2020). Advances in struvite precipitation technologies for nutrients removal and recovery from aqueous waste and wastewater. *Sustainability (Switzerland)*, 12(18). <https://doi.org/10.3390/su12187538>
- Skiba, U. (2008). Denitrification. In *Encyclopedia of Ecology* (pp. 866–871). Elsevier.
- Templeton, M. R., & Butler, D. (2011). *Introduction to Wastewater Treatment*. bookboon.

- Trang, N. T. T., Yen, L. T. H., Hanh, L. T. H., & Thanh, B. X. (2019). Struvite Formation from Wastewater: Affecting Factors and Nutrient Recovery. *GeoScience Engineering*, 64(1), 9–13. <https://doi.org/10.2478/gse-2018-0002>
- Trygar, R. (2009). *Nitrogen Control In Wastewater Treatment Plants Second Edition*.
- Valle, S. F., Giroto, A. S., Dombinov, V., Robles-Aguilar, A. A., Jablonowski, N. D., & Ribeiro, C. (2022). Struvite-based composites for slow-release fertilization: a case study in sand. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-18214-8>
- Voss, M., Bange, H. W., Dippern, J. W., Middelburg, J. J., Montoya, J. P., & Ward, B. (2013). The marine nitrogen cycle: Recent discoveries, uncertainties and the potential relevance of climate change. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 368(1621). <https://doi.org/10.1098/rstb.2013.0121>
- Ward, B. B. (2019). Nitrification. In *Encyclopedia of Ecology* (Vol. 2, pp. 351–358). Elsevier. <https://doi.org/10.1016/B978-0-12-409548-9.00697-7>
- Widyarani, Butar Butar, E. S., Dara, F., Hamidah, U., Sriwuryandari, L., Hariyadi, H. R., & Sintawardani, N. (2019). Distribution of protein fractions in tofu whey wastewater and its potential influence on anaerobic digestion. *IOP Conference Series: Earth and Environmental Science*, 277(1). <https://doi.org/10.1088/1755-1315/277/1/012012>
- Wu, J., Li, Y., Xu, B., Li, M., Wang, J., Shao, Y., Chen, F., Sun, M., & Liu, B. (2022). Effects of Physicochemical Parameters on Struvite Crystallization Based on Kinetics. In *International Journal of Environmental Research and Public Health* (Vol. 19, Issue 12). MDPI. <https://doi.org/10.3390/ijerph19127204>
- Zhang, Z. (2022). *Seawater as Magnesium Source for Struvite Recovery from Wastewater*. University of Auckland.
- Zhou, Y., & Wang, J. (2023). Detection and removal technologies for ammonium and antibiotics in agricultural wastewater: Recent advances and prospective.

In *Chemosphere* (Vol. 334). Elsevier Ltd.
<https://doi.org/10.1016/j.chemosphere.2023.139027>

Zhou, Y., Zhu, Y., Zhu, J., Li, C., & Chen, G. (2023). A Comprehensive Review on Wastewater Nitrogen Removal and Its Recovery Processes. In *International Journal of Environmental Research and Public Health* (Vol. 20, Issue 4). MDPI. <https://doi.org/10.3390/ijerph20043429>

