

DAFTAR PUSTAKA

- Al-Hazmi, H. E., Łuczak, J., Habibzadeh, S., Hasanin, M. S., Mohammadi, A., Esmacili, A., Kim, S.-J., Yazdi, M. K., Rabiee, N., Badawi, M., & Saeb, M. R. (2024). *Polysaccharide nanocomposites in wastewater treatment: A review*. *Chemosphere*.
- Alam, P. N., Hadif, F., Kurniawan, R., & Aslam, I. N. (2024). *Utilization of Coal-Mining Mud as a Safe and Environmentally Friendly Building Material*. 13(April), 10–18. <https://doi.org/10.13170/aijst.13.1.37303>
- Alazaiza, M. Y. D., Albahnasawi, A., Ali, G. A. M., Bashir, M. J. K., Nassani, D. E., Al Maskari, T., Abu Amr, S. S., & Abujazar, M. S. S. (2022). Application of Natural Coagulants for Pharmaceutical Removal from Water and Wastewater: A Review. *Water (Switzerland)*, 14(2). <https://doi.org/10.3390/w14020140>
- Amiri, P., & Behin, J. (2021). Journal of Environmental Chemical Engineering Instability of β – phase silver iodide nanoparticles in an aqueous medium by ozone. *Journal of Environmental Chemical Engineering*, 9(4), 105591. <https://doi.org/10.1016/j.jece.2021.105591>
- An, Y., & Zhou, Z. (2017). *Simultaneous removal of phosphorus and dissolved organic matter from a sludge in situ reduction process e ffl uent by coagulants*. 42305–42311. <https://doi.org/10.1039/c7ra08054a>
- Aoyagi, T., Hamai, T., Hori, T., Sato, Y., Kobayashi, M., Sato, Y., Inaba, T., Ogata, A., Habe, H., & Sakata, T. (2017). Hydraulic retention time and pH affect the performance and microbial communities of passive bioreactors for treatment of acid mine drainage. *AMB Express*. <https://doi.org/10.1186/s13568-017-0440-z>
- Assouline, S., Sela, S., Dorman, M., & Svoray, T. (2024). Runoff generation in a semiarid environment: The role of rainstorm intra-event temporal variability and antecedent soil moisture. *Advances in Water Resources*, 188(April), 104715. <https://doi.org/10.1016/j.advwatres.2024.104715>
- Bauerek, A., Bebek, M., Fraczek, R., Paw, K., & Kasperkiewicz, W. (2017). Variability of chemical composition of acidic runoff waters from an active spoil heap of mining wastes representing sediments of the cracow sandstone series of the upper silesian coal basin. *Przegląd Geologiczny*, 65(7).
- Ben, H., Mainardis, M., Moretti, A., & Toye, D. (2025). *Extracellular polymeric substances (EPS) in sewage sludge management: A call for methodological standardization*. 376(January). <https://doi.org/10.1016/j.jenvman.2025.124407>
- Bhuyan, S. C., & H. B. Sahu. (2024). *Enhancing Mine Water Quality: The Efficacy of Fly Ash in Acid Mine Drainage Neutralization and Contaminant Stabilization*. Sustainable and Innovative Mining Practices.
- Binolombangan, A. A., Purnomo, H., & Rande, S. A. (2023). *Analisis Sistem Penyaliran Tambang Terbuka Pada Penambangan Batubara Area Blok A PT . Minemex Indonesia Site Mandiangin Kabupaten Sarolangun Provinsi Jambi*. 2023(November), 303–316.
- Boon, N., Guerrero-García, G. I., Van Roij, R., & De La Cruz, M. O. (2015). Effective charges and virial pressure of concentrated macroion solutions. *Proceedings of the National Academy of Sciences of the United States of America*, 112(30), 9242–9246.

- Chai, J. (2022). *Influence of coal mining on shallow groundwater environment response to coal mining and mine water ecological utilization analysis*. Meitiandizhi Yu Kantan/Coal Geology and Exploration.
- Chen, X., Yuan, Y., Gao, Y., He, Z., & Wang, H. (2026). Beyond charge neutralization : Self-skeletization of inorganic coagulants reinforces pore networks for enhanced sludge dewatering. *Water Research*, 288(PA), 124546. <https://doi.org/10.1016/j.watres.2025.124546>
- Cheng, Y., Zhang, S., Huang, T., Hu, F., Gao, M., & Niu, X. (2020). Effect of alkalinity on catalytic activity of iron–manganese co-oxide in removing ammonium and manganese: Performance and mechanism. *International Journal of Environmental Research and Public Health*, 17(3). <https://doi.org/10.3390/ijerph17030784>
- D. P. Tripathy. (2014). *Prevention and Treatment of Acid Mine Drainage: An Overview*. Recent Trends in Modelling of Environmental Contaminants.
- Demir, O., & Filibeli, A. (2012). Fate of return activated sludge after ozonation: An optimization study for sludge disintegration. *Environmental Technology (United Kingdom)*, 33(16), 1869–1878. <https://doi.org/10.1080/09593330.2011.650220>
- Dong, H., Gao, B., Yue, Q., Wang, Y., & Li, Q. (2015). Effect of pH on floc properties and membrane fouling in coagulation - ultrafiltration process with ferric chloride and polyferric chloride. *Chemosphere*, 130, 90–97. <https://doi.org/10.1016/j.chemosphere.2015.03.049>
- Dong, Y., Wang, J., Gao, Z., Di, J., Wang, D., Guo, X., Hu, Z., Gao, X., & Wang, Y. (2023). *Study on Growth Influencing Factors and Desulfurization Performance of Sulfate Reducing Bacteria Based on the Response Surface Methodology*. <https://doi.org/10.1021/acsomega.2c06931>
- Emir, E., & Erdinçler, A. (2006). *The role of compactibility in liquid – solid separation of wastewater sludges*. 121–126. <https://doi.org/10.2166/wst.2006.215>
- Feng, Y., Kilker, S. R., & Lee, Y. (2020). Surface charge (zeta-potential) of nanoencapsulated food ingredients. In *Characterization of Nanoencapsulated Food Ingredients*.
- Fernanda, K., Ferrari, H., Maraschin, M., Bona, C. De, Colling, A., & Carissimi, E. (2020). The influence of ozonation and sedimentation on water treatment plant sludge : evaluation of clarified water and thickened sludge. *Desalination and Water Treatment*, 200, 241–251. <https://doi.org/10.5004/dwt.2020.26137>
- Gottschalk, C., Saupe, A., & Ann Libra, J. (2010). *Ozonation of Water and Waste Water A Practical Guide to Understanding Ozone and its Applications*.
- Gotz Bickert. (2023). *Solid–liquid separation technologies for coal*. The Coal Handbook (Second edition) Towards Cleaner Coal Supply Chains.
- Gulshin, I., & Kuzina, O. (2025). Optimization of Wastewater Treatment Through Machine Learning-Enhanced Supervisory Control and Data Acquisition: A Case Study of Granular Sludge Process Stability and Predictive Control. *Automation*, 6(1). <https://doi.org/10.3390/automation6010002>
- Halfi;, E., Brenner;, A., & Katoshevski, D. (2020). *Effect of container geometry on colloids removal from water in oscillation-based flocculation*. Water Supply.

- Han, Y., Zhou, M., Xiao, Y., Zhou, X., Geng, J., Wang, T., Wan, S., & Hou, H. (2017). Roles of Fe (III) and Fe (VI) in enhancing dewaterability of sewage sludge based on floc size grading. *Desalination and Water Treatment*, 84, 324–331. <https://doi.org/10.5004/dwt.2017.21205>
- Hao, R., Sun, X., Sun, S., Chen, X., Wu, G., Zhao, Y., Zhang, L., & Wei, L. (2025). Pilot study of advanced ozone oxidation treatment of mine wastewater for manganese degradation. *Process Safety and Environmental Protection*, 198(December 2024), 107081. <https://doi.org/10.1016/j.psep.2025.107081>
- Harbottle, D., . S. mail to H., ;, Webber, G., . S. mail to W., ;, Fairweather, M., ;, Rhodes, D., ;, & Biggs, S. (2015). *Applying the quartz crystal microbalance technique to determine the stability of colloidal suspensions*. AICHE Annual Meeting, Conference Proceedings.
- Hassanzadeh, A., Tanisali, E., Hassas, B. V., Karakaş, F., & Celik, M. S. (2016). Effect of particle morphology on coagulation of silica. *IMPC 2016 - 28th International Mineral Processing Congress, 2016-Sept*(September).
- Hennemann, M., Gastl, M., & Becker, T. (2021). Influence of particle size uniformity on the filter cake resistance of physically and chemically modified fine particles. *Separation and Purification Technology*, 272(May), 118966. <https://doi.org/10.1016/j.seppur.2021.118966>
- Heru, W., Yang, L., Wang, R., Wu, Y., & Song, Y. (2021). *A lower pH indicates the dominance of oxidation reactions of sulfide minerals such as pyrite (FeS₂), which produce H⁺ ions and contribute to water acidity. Conversely, a higher pH indicates natural neutralization processes by carbonate minerals or dissolv.* Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae.
- Hiroyuki, O. (2018). *Electrical Phenomena at Interfaces Fundamentals: Measurements, and Applications*. Physical Sciences.
- Ikehata, K., & Li, Y. (2018). *Ozone-Based Processes*. Advanced Oxidation Processes for Waste Water Treatment.
- Ji, M., Wu, K., Li, J., Ye, Z., Li, H., & Zhu, S. (2020). The Effect of Ozonation on Particle Size Distribution for Recirculating Aquacultural Seawater: Analysis of Particle Flocculation and Breakup. *Ozone: Science and Engineering*, 42(2), 157–167. <https://doi.org/10.1080/01919512.2019.1644993>
- Jin, Z., Chen, L., Li, Q., Aihemaiti, M., Jiang, Y., & Tao, H. (2025). Establishment of predictive models for head loss and filtration efficiency of pontoon mesh rotary filter based on dimension analysis. *Scientific Reports*, 15(1), 1–19. <https://doi.org/10.1038/s41598-025-87708-y>
- John Bratby. (2016). *Coagulation and Flocculation in Water and Wastewater Treatment*.
- Jun, B. S., & Joo, H. K. (2008). Suspension stability of Pb(Zr_{0.58} TiO_{0.42})O₃ nano-particles during electrophoretic deposition. *Journal of Physics and Chemistry of Solids*, 69(5–6), 1330–1333. <https://doi.org/10.1016/j.jpcs.2007.10.130>
- Karbassi, A., & Marefat, A. (2017). The impact of increased oxygen conditions on heavy metal flocculation in the Sefidrud estuary. *Marine Pollution Bulletin*, 121(1–2), 168–175. <https://doi.org/10.1016/j.marpolbul.2017.06.011>
- Khozyem, H., Hamdan, A., Tantawy, A. A., Emam, A., & Elbadry, E. (2019). Distribution and origin of iron and manganese in groundwater: case study, Balat-Teneida area, El-Dakhla

- Kong, Y., Yang, X., Ren, J., Shen, W., & Tao, R. (2021). *Research progress on influencing factors of ozone oxidation process of effluent of wastewater treatment plants*. *Energy Environmental Protection*.
- Kosowski, P., Szostek, M., & Pieni, R. (2020). *New Approach for Sewage Sludge Stabilization with Ozone*. 1–9.
- Lee, D., Lee, J., Cheong, Y., Park, J., Lee, J., Cheong, Y., & Park, J. (2023). Physical properties of mine drainage sediment according to depth in settling ponds. *International Journal of Mining, Reclamation and Environment*, 37(2), 148–161. <https://doi.org/10.1080/17480930.2023.2166248>
- Lesin, Y., Gogolin, V., Murko, E., Markov, S., & Kretschmann, J. (2018). The Choice of Methods of Quarry Wastewater Purifying. *E3S Web of Conferences*, 41, 1–8. <https://doi.org/10.1051/e3sconf/20184101039>
- Li, J., Liu, L., Liu, J., Ma, T., Yan, A., & Ni, Y. (2016). Journal of Environmental Chemical Engineering Effect of adding alum sludge from water treatment plant on sewage sludge dewatering. *Biochemical Pharmacology*, 4(1), 746–752. <https://doi.org/10.1016/j.jece.2015.07.021>
- Li, T., Yan, X., Wang, D., & Wang, F. (2009). Impact of preozonation on the performance of coagulated flocs. *Chemosphere*, 75(2), 187–192. <https://doi.org/10.1016/j.chemosphere.2008.12.014>
- Li, Y., Xu, L., Shi, T., & Yu, W. (2021). The influence of various additives on coagulation process at different dosing point : From a perspective of structure properties. *Journal of Environmental Sciences*, 101, 168–176. <https://doi.org/10.1016/j.jes.2020.08.016>
- Liang, J., Yu, L., & Wu, J. (2020). The dynamic change of specific cake resistance in membrane bioreactor due to periodical cake relaxation. *Journal of Environmental Chemical Engineering*, 8(4), 103837. <https://doi.org/10.1016/j.jece.2020.103837>
- Liansheng, T., Yang, CHEN, , ZENG, X., Zihua, , CHENG, & , DING, W. (2024). 聚合氯化铝预处理污泥联合脱水有效性及机理 . <https://doi.org/10.13471/j.cnki.acta.snus.ZR20230054>
- Lin, H.-J., ., ; Lu, X.-F., X.-F., ., ; Duan, W., ., ; & Shen, F. (2006). *Filtration characteristics and mechanism of membrane fouling in a membrane bioreactor for municipal wastewater treatment*. *Huanjing Kexue/Environmental Science*.
- Liu, J., Dai, C., & Hu, Y. (2018). Aqueous aggregation behavior of citric acid coated magnetite nanoparticles: Effects of pH, cations, anions, and humic acid. *Environmental Research*, 161(July 2017), 49–60. <https://doi.org/10.1016/j.envres.2017.10.045>
- Liu, L., Yan, H., Tan, W., & Zhu, G. (2017). *Chinese Journal of Chemical Engineering settleability of drilling sludge* ☆. 25, 658–664.
- Lu, L., Luo, Z., Yu, X., Li, Y., Cui, H., Khan, S., Lei, M., & Du, H. (2024). *Oxidative Weathering of Neutral Mine Drainage from Gold Mine Tailings Impoundment: Tracking Formation and Transformation of Biogenic Iron Minerals and the Associated Arsenic*. *ACS Earth and Space Chemistry*.
- Lv, Y., Xiao, K., Yang, J., Zhu, Y., Pei, K., Yu, W., Tao, S., Wang, H., Liang, S., Hou, H., Liu,

- B., & Hu, J. (2019). Correlation between oxidation-reduction potential values and sludge dewaterability during pre-oxidation. *Water Research*, 155, 96–105. <https://doi.org/10.1016/j.watres.2019.02.049>
- Masindi, V., Gitari, M. W., Tutu, H., & De Beer, M. (2015). Passive remediation of acid mine drainage using cryptocrystalline magnesite: A batch experimental and geochemical modelling approach. *Water SA*, 41(5), 677–682. <https://doi.org/10.4314/wsa.v41i5.10>
- Mathon, B., Coquery, M., Liu, Z., Penru, Y., Guillon, A., Esperanza, M., Miège, C., & Choubert, J. M. (2021). Ozonation of 47 organic micropollutants in secondary treated municipal effluents: Direct and indirect kinetic reaction rates and modelling. *Chemosphere*, 262. <https://doi.org/10.1016/j.chemosphere.2020.127969>
- Mazitova, A. K., Sukhareva, I. A., Sidorov, G. M., Abdrakhmanova, L. K., & Kuznetsova, E. V. (2020). Study of flocculating effects of ozone on wastewater of woodworking enterprises. *Nanotechnologies in Construction*, 12(4), 204–210. <https://doi.org/10.15828/2075-8545-2020-12-4-204-210>
- Metcalf, L., Eddy, H. P., & Tchobanoglous, G. (2003). Wastewater Engineering: Treatment and Resource Recovery, Fifth Edition. In *Wastewater Engineering: Treatment and Resource Recovery*. <https://books.google.com/cu/books?id=6KVKMAEACAAJ>
- Mohammadi-jam, S., Greenwood, R. W., & Waters, K. E. (2025). Results in Engineering An overview of the temperature dependence of the zeta potential of aqueous suspensions. *Results in Engineering*, 27(April), 105698. <https://doi.org/10.1016/j.rineng.2025.105698>
- Mohd, S., Othman, N., Al-maqtari, Q. A., Ali, W., Al-towayti, H., Nor, S., & Arifin, H. (2023). Environmental Technology & Innovation The assessment of coagulation and flocculation performance and interpretation of mechanistic behavior of suspended particles aggregation by alum assisted by tapioca peel starch. *Environmental Technology & Innovation*, 32(October), 103414. <https://doi.org/10.1016/j.eti.2023.103414>
- Morán, H. C., Abel, C., Maldonado, G., Alcides, D., Sandoval, S., Bronia, E., García, C., Berrocal, E. O., Haydeé, R., & Quiñones, Z. (2025). Optimization of bacterial disinfection in drinking water by ozone-induced oxidation-reduction potential control using response surface methodology. 26(12), 28–42.
- Moser, P. B., Santos, L. V. S., Moreira, V. R., Guimar, R. N., Silva, R., Casella, G. S., Míriam, C., Paula, E. C. De, Lebron, Y. A. R., Fl, A., & Amaral, S. (2023). *Journal of Water Process Engineering Restrictions in water treatment by conventional processes (coagulation , flocculation , and sand-filtration) following scenarios of dam failure*. 51(November 2022). <https://doi.org/10.1016/j.jwpe.2022.103450>
- Ncube, P., Pidou, M., Stephenson, T., Jefferson, B., & Jarvis, P. (2018). Consequences of pH change on wastewater depth filtration using a multimedia filter. *Water Research*, 128, 111–119. <https://doi.org/10.1016/j.watres.2017.10.040>
- Nordstrom, D. K., Blowes, D. W., & Ptacek, C. J. (2015). Applied Geochemistry Hydrogeochemistry and microbiology of mine drainage: An update. *Applied Geochemistry*, 57, 3–16. <https://doi.org/10.1016/j.apgeochem.2015.02.008>
- Olivera, S., Muralidhara, H. B., Venkatesh, K., Guna, V. K., Gopalakrishna, K., & Kumar K., Y. (2016). Potential applications of cellulose and chitosan nanoparticles/composites in wastewater treatment: A review. *Carbohydrate Polymers*, 153, 600–618. <https://doi.org/10.1016/j.carbpol.2016.08.017>

- Pal, R., Matta, G., Muruganandam, M., Singhal, V., Kaushal, R., Rashmi, I., Singh, R., & G. K. S., & Madhu, M. (2024). *Impact of Stone Mining on Surface Water Quality* (Issue Gambar 2, pp. 2–4). Ecological Impacts of Stone Mining.
- Pandey, A., ;, S., V., S., S. mail to V., ;, D., M., ;, J.R., R., ;, & H.M.D., A. (2025). *A NEW PORTABLE WATER FILTER SYSTEM FOR WASTEWATER*. Larhyss Journal.
- Piekarski, J. (2009). *Colmatation blockage during gravitational filtration process of coal suspension on sand bed*. Mineral Resources Management.
- Qazizade, A., Manzari, M. T., & Hannani, S. K. (2006). Thermal transport in combined pressure - Electroosmotically driven flow in microchannels. *Thermomechanical Phenomena in Electronic Systems -Proceedings of the Intersociety Conference, 2006*(January 2006), 63–70. <https://doi.org/10.1109/ITHERM.2006.1645323>
- Qiuyu, L., Ke, Y., Jin, Y., Yang, L., Zhongyuan, R., & Xiaojiao, L. (2025). *Study on the effect of coagulation treatment on dissolved organic pollutants in coal mine water*. Gongye shui chuli.
- Rakhi P.K., ;, Mishra, K., ;, Scaria, J., ;, M., S. K., ;, & P.V., N. (2024). *Advanced Oxidation Processes*. Advances in Science, Technology and Innovation.
- Ramadhan, A. A. N., Ramli, M., & Hatta, A. A. (2022). *Optimasi Penggunaan Dosis Koagulan Alum dan Poly Aluminium Chloride (Pac) dalam Pengelolaan Limbah Cair Batubara*. 26(1), 1–8. <https://doi.org/10.25042/jpe.052022.01>
- Ramaye, Y., Dabrio, M., Roebben, G., & Kestens, V. (2021). Development and validation of optical methods for zeta potential determination of silica and polystyrene particles in aqueous suspensions. *Materials*, 14(2), 1–20. <https://doi.org/10.3390/ma14020290>
- Ren, H., Ma, L., Wang, B., Gong, H., Yuan, Z., Li, Z., Ren, H., Ma, L., Wang, B., Gong, H., Yuan, Z., & Li, Z. (2017). Systematic Analysis of the Biochemical Characteristics of Activated Sludge During Ozonation for Lowering of Biomass Production Systematic Analysis of the Biochemical Characteristics of Activated Sludge. *Ozone: Science & Engineering*, 39(2), 80–90. <https://doi.org/10.1080/01919512.2016.1268948>
- Ridwan, Nahar, Irwan, & Hasanah, U. (2025). *Application of the Coagulation Jar Test Method for the Treatment of Coal Wastewater in Industrial Wastewater Management*. 25(1), 50–55.
- Rouhani, A., Skousen, J., & Tack, F. M. G. (2023). An Overview of Soil Pollution and Remediation Strategies in Coal Mining Regions. *Minerals*, 13(8), 1–23. <https://doi.org/10.3390/min13081064>
- Safaat, J., Rosano, M., Vink, S., & Keir, G. (2015). A framework for a sustainable approach to mine tailings management: disposal strategies. *Journal of Cleaner Production*, 108, 1050–1062. <https://doi.org/10.1016/j.jclepro.2015.07.139>
- Sanchis-perucho, P., Melissa, K., & Torres, M. (2023). *Evaluating the potential of off-line methodologies to determine sludge filterability from different municipal wastewater treatment systems*. 468(May). <https://doi.org/10.1016/j.cej.2023.143537>
- Sharma, M., Kant, R., Sharma, A. K., & Sharma, A. K. (2025). Exploring the impact of heavy metals toxicity in the aquatic ecosystem. *International Journal of Energy and Water Resources*, 9(1), 267–280. <https://doi.org/10.1007/s42108-024-00284-1>
- Shen, X., & Bourg, I. C. (2021). Journal of Colloid and Interface Science Molecular dynamics

- Shi, J., Jin, H., You, S., & Li, B. (2014). *A study on effect of ozonation disintegration for excess sludge*. Zhongshan Daxue Xuebao/Acta Scientiarum Natralium Universitatis Sunyatseni.
- Shi, P., Sun, L., Xie, C., Zheng, Y., & Qiu, C. (2016). 臭氧预处理对剩余污泥特性及厌氧消化的影响. 1(20130515), 1–7.
- Shree, S., Pramod, T., & Kommagalla, K. (2025). Sustainable Degradation of Organophosphate Contaminated Wastewater By Hydrodynamic Cavitation : A New Insight Into Synergistic Ways of Integration of AOPs and Their Effects , Kinetics and Energy - Economics. *Water, Air, & Soil Pollution*. <https://doi.org/10.1007/s11270-025-07745-1>
- Singh, A. K., Mahato, M. K., Neogi, B., Mondal, G. C., & Singh, T. B. (2011). *Hydrogeochemistry , Elemental Flux , and Quality Assessment of Mine Water in the Pootkee-Balihari Mining Area , Jharia*. 197–207. <https://doi.org/10.1007/s10230-011-0143-7>
- Singh, H., & Mishra, B. K. (2022). *Recent applications, reaction mechanism, and future perspective of hybrid ozonation process for water and wastewater treatment*. Development in Wastewater Treatment Research and Processes.
- Skousen, J., Zipper, C. E., Rose, A., Ziemkiewicz, P. F., Nairn, R., Mcdonald, L. M., & Kleinmann, R. L. (2017). *Review of Passive Systems for Acid Mine Drainage Treatment*. 36(1), 133–153. <https://doi.org/10.1007/s10230-016-0417-1>
- Sriwiriyarat, T., Wongvian, R., & Kuhakaew, S. (2017). *Selection of coagulant with consideration of sludge characteristics for treatment of industrial wastewater containing high strength mixed surfactants*. Chiang Mai Journal of Science.
- Sustainability Report Kideco. (2024). *Memperkuat Pondasi ESG untuk Membangun Masa Depan 2024*.
- Tadros, T. (2014). *General Principles of Colloid Stability and the Role of Surface Forces*. Colloids and Interface Science Series, 6 Volume Set.
- Tan, J., Huang, Y., Chi, B., Xiong, Z., & Zhou, W. (2024). Journal of Environmental Chemical Engineering Comparative study of iron and aluminium coagulants in conditioning sludge : Sludge dewatering performance , physicochemical properties , and risk of heavy metal migration. *Journal of Environmental Chemical Engineering*, 12(4), 113168. <https://doi.org/10.1016/j.jece.2024.113168>
- Tao, C., Parker, W., & Bérubé, P. (2024). *The impact of secondary operating temperature on in-line coagulation/flocculation and fouling of membranes used in tertiary treatment* (pp. 543–545). Environmental Science: Water Research & Technology.
- Thiruvengkatachari, R., Francis, M., Cunningham, M., & Su, S. (2016). Application of integrated forward and reverse osmosis for coal mine wastewater desalination. *Separation and Purification Technology*, 163, 181–188. <https://doi.org/10.1016/j.seppur.2016.02.034>
- Voigt, M., Wirtz, A., Hoffmann-Jacobsen, K., & Jaeger, M. (2020). Prior art for the development of a fourth purification stage in wastewater treatment plant for the elimination of anthropogenic micropollutants-a short-review. *AIMS Environmental Science*, 7(1), 69–98. <https://doi.org/10.3934/environsci.2020005>

- Vural, B., Elçi, Ş., & Ökten, H. E. (2021). An experimental study on release mechanism of iron and manganese from sediments to the water column in reservoirs. *Environmental Research and Technology*, 4(3), 190–198. <https://doi.org/10.35208/ert.833975>
- Wang, C. li, Xu, C. Y., Ma, R. T., Li, Q. R., Hu, F. N., Zhao, S. W., & Bol, R. (2025). Comparison for colloidal stability and aggregation behavior of fulvic and humic acids: effects of cations and pH. *Frontiers in Soil Science*, 5(June). <https://doi.org/10.3389/fsoil.2025.1452870>
- Wei, W., Li, X., Zhu, J., & Du, M. A. (2015). Characteristics of flocs formed by polyaluminum chloride during flocculation after floc recycling and breakage. *Desalination and Water Treatment*, 56(4), 1110–1120. <https://doi.org/10.1080/19443994.2014.947329>
- Wu, B., Wang, H., He, Y., Dai, X., & Chai, X. (2022). Influential mechanism of water occurrence states of waste-activated sludge : Over-focused significance of cell lysis to bound water reduction. *Water Research*, 221(May), 118737. <https://doi.org/10.1016/j.watres.2022.118737>
- Wu, Y., Yang, Y.-L., Li, X., Zhou, Z.-W., & Wang, W.-Q. (2014). *Study on flocs characteristics under three common dominant coagulation mechanisms*.
- Xiao, K., Chen, Y., Jiang, X., & Zhou, Y. (2017). Chemosphere Evaluating fi lterability of different types of sludge by statistical analysis : The role of key organic compounds in extracellular polymeric substances. *Chemosphere*, 170, 233–241. <https://doi.org/10.1016/j.chemosphere.2016.12.030>
- Xu, C. yang, Zhou, T. tan, Wang, C. li, Liu, H. yi, Zhang, C. tian, Hu, F. nan, Zhao, S. wei, & Geng, Z. chao. (2020). Aggregation of polydisperse soil colloidal particles: Dependence of Hamaker constant on particle size. *Geoderma*, 359(September 2019), 113999. <https://doi.org/10.1016/j.geoderma.2019.113999>
- Xu, R. (2007). *Particle size and zeta potential of carbon black in liquid media*. 45, 2806–2809. <https://doi.org/10.1016/j.carbon.2007.09.010>
- Xue, J., Zhang, Y., Liu, Y., & El-din, M. G. (2016). Effects of ozone pretreatment and operating conditions on membrane fouling behaviors of an anoxic-aerobic membrane bioreactor for oil sands process-affected water (OSPW) treatment. *Water Research*, 105, 444–455. <https://doi.org/10.1016/j.watres.2016.09.011>
- Yang, Z., Zhang, Y., Zhu, W., Zan, X., Zhang, L., & Liu, Y. (2020). Effective oxidative degradation of coal gasification wastewater by ozonation: A process study. *Chemosphere*, 255, 126963. <https://doi.org/10.1016/j.chemosphere.2020.126963>
- Yao, J., Gong, D., Fang, Y., & Zhang, Z. (2022). *The coagulation effect and floc characteristics of different forms of algae*. Chongqing Daxue Xuebao/Journal of Chongqing University.
- Zeng, J., Qiu, J., Zhang, J., Qi, Y., Liu, R., Jian, C., Liu, N., & Su, Y. (2023). Plant ash prevents acid mine drainage from sulfur-bearing tailings through multiple actions — A low-cost alkaline material. *Applied Geochemistry*, 155(June). <https://doi.org/10.1016/j.apgeochem.2023.105702>
- Zhang, G., Yang, J., Liu, H., & Zhang, J. (2009). Bioresource Technology Sludge ozonation : Disintegration , supernatant changes and mechanisms. *Bioresource Technology*, 100(3), 1505–1509. <https://doi.org/10.1016/j.biortech.2008.08.041>
- Zhang, J., Zhang, J., Tian, Y., Li, N., Kong, L., Sun, L., Yu, M., & Zuo, W. (2016). Changes of physicochemical properties of sewage sludge during ozonation treatment: Correlation

- Zhang, L. Q., Zhang, Y. K., Lin, X. C., Yang, K., & Lin, D. H. (2014). The role of humic acid in stabilizing fullerene (C60) suspensions. *Journal of Zhejiang University: Science A*, 15(8), 634–642. <https://doi.org/10.1631/jzus.A1400115>
- Zhang, X., Li, G., Li, Y., Ma, Y., Han, X., & Zhou, X. (2023). Enhanced Sewage Sludge Disintegration and Nutrients Release by Catalytic Microbubbles Ozonation Using Sewage Sludge-Based Char as Catalyst. *Sustainability (Switzerland)*, 15(2). <https://doi.org/10.3390/su15021641>
- Zhang, X., Yue, X., Liu, Z., & Q. L., & Hua, X. (2015). *Impacts of sludge retention time on sludge characteristics and membrane fouling in a submerged anaerobic–oxic membrane bioreactor*. *Environmental biotechnology*.
- Zhang, X., Zhu, J., Li, Z., Li, J., & Ren, P. (2022). Effect of hydrodynamic breakage on floc evolution and turbidity reduction in flocculation and sedimentation processes. *Water Supply*, 22(2), 1409–1420. <https://doi.org/10.2166/ws.2021.345>
- Zhao, X. A., Xu, S. H., Zhou, H. W., & Sun, Z. W. (2021). Effect of electrolyte concentration on effective surface charge of colloidal particles. *Wuli Xuebao/Acta Physica Sinica*, 70(5). <https://doi.org/10.7498/aps.70.20201472>