# Chen Zhou

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reductive destruction of multiple nitrated energetics over palladium nanoparticles in the H2-based membrane catalyst-film reactor (MCfR). Journal of Hazardous Materials, 2022, 423, 127055. | 6.5 | 2 |
| 2 | Co-removal of 2,4-dichlorophenol and nitrate using a palladized biofilm: Denitrification-promoted microbial mineralization following catalytic dechlorination. Journal of Hazardous Materials, 2022, 422, 126916. | 6.5 | 24 |
| 3 | Palladium (Pd<sup>0</sup>) Loading-Controlled Catalytic Activity and Selectivity for Chlorophenol Hydrodechlorination and Hydrosaturation. Environmental Science & Technology, 2022, 56, 4447-4456. | 4.6 | 22 |
| 4 | A kinetic model for 2,4-dichlorophenol adsorption and hydrodechlorination over a palladized biofilm. Water Research, 2022, 214, 118201. | 5.3 | 19 |
| 5 | Microbial transformations by sulfur bacteria can recover value from phosphogypsum: A global problem and a possible solution. Biotechnology Advances, 2022, 57, 107949. | 6.0 | 15 |
| 6 | Dechlorination of 2,4-dichlorophenol in a hydrogen-based membrane palladium-film reactor: Performance, mechanisms, and model development. Water Research, 2021, 188, 116465. | 5.3 | 33 |
| 7 | Long-Term Continuous Co-reduction of 1,1,1-Trichloroethane and Trichloroethene over Palladium Nanoparticles Spontaneously Deposited on H<sub>2</sub>-Transfer Membranes. Environmental Science & Technology, 2021, 55, 2057-2066. | 4.6 | 34 |
| 8 | Stable dechlorination of Trichloroacetic Acid (TCAA) to acetic acid catalyzed by palladium nanoparticles deposited on H2-transfer membranes. Water Research, 2021, 192, 116841. | 5.3 | 34 |
| 9 | H<sub>2</sub>-Based Membrane Catalyst-Film Reactor (H<sub>2</sub>-MCfR) Loaded with Palladium for Removing Oxidized Contaminants in Water. Environmental Science & Technology, 2021, 55, 7082-7093. | 4.6 | 27 |
| 10 | <i>Para</i>-Chlorophenol (4-CP) Removal by a Palladium-Coated Biofilm: Coupling Catalytic Dechlorination and Microbial Mineralization via Denitrification. Environmental Science & Technology, 2021, 55, 6309-6319. | 4.6 | 45 |
| 11 | A Synergistic Platform for Continuous Co-removal of 1,1,1-Trichloroethane, Trichloroethene, and 1,4-Dioxane via Catalytic Dechlorination Followed by Biodegradation. Environmental Science & Technology, 2021, 55, 6363-6372. | 4.6 | 23 |
| 12 | Adsorption and Reductive Defluorination of Perfluorooctanoic Acid over Palladium Nanoparticles. Environmental Science & Technology, 2021, 55, 14836-14843. | 4.6 | 26 |
| 13 | Hydrodefluorination of Perfluorooctanoic Acid in the H<sub>2</sub>-Based Membrane Catalyst-Film Reactor with Platinum Group Metal Nanoparticles: Pathways and Optimal Conditions. Environmental Science & Technology, 2021, 55, 16699-16707. | 4.6 | 13 |
| 14 | Modeling Trichloroethene Reduction, Methanogenesis, and Homoacetogenesis in a H2-Based Biofilm. Journal of Environmental Engineering, ASCE, 2020, 146, . | 0.7 | 3 |
| 15 | Complete dechlorination and mineralization of para-chlorophenol (4-CP) in a hydrogen-based membrane biofilm reactor (MBfR). Journal of Cleaner Production, 2020, 276, 123257. | 4.6 | 27 |
| 16 | The Nature and Oxidative Reactivity of Urban Magnetic Nanoparticle Dust Provide New Insights into Potential Neurotoxicity Studies. Environmental Science & Technology, 2020, 54, 10599-10609. | 4.6 | 7 |
| 17 | Anaerobic biodegradation of catechol by sediment microorganisms: Interactive roles of N reduction and S cycling. Journal of Cleaner Production, 2019, 230, 80-89. | 4.6 | 14 |
| 18 | Evaluation of Zinc Oxide Nanoparticles-Induced Effects on Nitrogen and Phosphorus Removal from Real and Synthetic Municipal Wastewater. Industrial & Engineering Chemistry Research, 2019, 58, 7929-7936. | 1.8 | 16 |

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| 19 | Electronâ€acceptor loadings affect chloroform dechlorination in a hydrogenâ€based membrane biofilm reactor. Biotechnology and Bioengineering, 2019, 116, 1439-1448. | 1.7 | 13 |
| 20 | Direct solidâ€state evidence of H<sub>2</sub>â€induced partial U(VI) reduction concomitant with adsorption by extracellular polymeric substances (EPS). Biotechnology and Bioengineering, 2018, 115, 1685-1693. | 1.7 | 31 |
| 21 | Low concentrations of Al(III) accelerate the formation of biofilm: Multiple effects of hormesis and flocculation. Science of the Total Environment, 2018, 634, 516-524. | 3.9 | 27 |
| 22 | Accurate O<sub>2</sub> delivery enabled benzene biodegradation through aerobic activation followed by denitrificationâ€coupled mineralization. Biotechnology and Bioengineering, 2018, 115, 1988-1999. | 1.7 | 30 |
| 23 | Complete dechlorination and mineralization of pentachlorophenol (PCP) in a hydrogen-based membrane biofilm reactor (MBfR). Water Research, 2018, 144, 134-144. | 5.3 | 71 |
| 24 | Hydrogenotrophic Microbial Reduction of Oxyanions With the Membrane Biofilm Reactor. Frontiers in Microbiology, 2018, 9, 3268. | 1.5 | 49 |
| 25 | Concomitant Cr(VI) reduction and Cr(III) precipitation with nitrate in a methane/oxygen-based membrane biofilm reactor. Chemical Engineering Journal, 2017, 315, 58-66. | 6.6 | 83 |
| 26 | Coupling of Pd nanoparticles and denitrifying biofilm promotes H2-based nitrate removal with greater selectivity towards N2. Applied Catalysis B: Environmental, 2017, 206, 461-470. | 10.8 | 60 |
| 27 | Reductive precipitation of sulfate and soluble Fe(III) by Desulfovibrio vulgaris: Electron donor regulates intracellular electron flow and nano-FeS crystallization. Water Research, 2017, 119, 91-101. | 5.3 | 60 |
| 28 | Enhancing denitrification using a novel in situ membrane biofilm reactor (isMBfR). Water Research, 2017, 119, 234-241. | 5.3 | 18 |
| 29 | The distribution of phosphorus and its transformations during batch growth of Synechocystis. Water Research, 2017, 122, 355-362. | 5.3 | 67 |
| 30 | Enhanced performance of short-time aerobic digestion for waste activated sludge under the presence of cocoamidopropyl betaine. Chemical Engineering Journal, 2017, 320, 494-500. | 6.6 | 28 |
| 31 | How myristyltrimethylammonium bromide enhances biomass harvesting and pigments extraction from Synechocystis sp. PCC 6803. Water Research, 2017, 126, 189-196. | 5.3 | 23 |
| 32 | Total electron acceptor loading and composition affect hexavalent uranium reduction and microbial community structure in a membrane biofilm reactor. Water Research, 2017, 125, 341-349. | 5.3 | 28 |
| 33 | Enhanced biological stabilization of heavy metals in sediment using immobilized sulfate reducing bacteria beads with inner cohesive nutrient. Journal of Hazardous Materials, 2017, 324, 340-347. | 6.5 | 56 |
| 34 | Unsuccessful Urban Governance of Brownfield Land Redevelopment: A Lesson from the Toxic Soil Event in Changzhou, China. Sustainability, 2017, 9, 824. | 1.6 | 16 |
| 35 | Locked post-fossil consumption of urban decentralized solar photovoltaic energy: A case study of an on-grid photovoltaic power supply community in Nanjing, China. Applied Energy, 2016, 172, 1-11. | 5.1 | 9 |
| 36 | Bioreduction of Chromate in a Methane-Based Membrane Biofilm Reactor. Environmental Science & Technology, 2016, 50, 5832-5839. | 4.6 | 120 |

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|---|---|---|---|
| 37 | Biofilm-enhanced continuous synthesis and stabilization of palladium nanoparticles (PdNPs). Environmental Science: Nano, 2016, 3, 1396-1404. | 2.2 | 25 |
| 38 | Selenate and Nitrate Bioreductions Using Methane as the Electron Donor in a Membrane Biofilm Reactor. Environmental Science & Technology, 2016, 50, 10179-10186. | 4.6 | 119 |
| 39 | Using flow cytometry to evaluate thermal extraction of EPS from Synechocystis sp. PCC 6803. Algal Research, 2016, 20, 276-281. | 2.4 | 24 |
| 40 | Direct delivery of CO 2 into a hydrogen-based membrane biofilm reactor and model development. Chemical Engineering Journal, 2016, 290, 154-160. | 6.6 | 35 |
| 41 | Palladium Recovery in a H<sub>2</sub>-Based Membrane Biofilm Reactor: Formation of Pd(0) Nanoparticles through Enzymatic and Autocatalytic Reductions. Environmental Science & Technology, 2016, 50, 2546-2555. | 4.6 | 72 |
| 42 | The roles of methanogens and acetogens in dechlorination of trichloroethene using different electron donors. Environmental Science and Pollution Research, 2015, 22, 19039-19047. | 2.7 | 49 |
| 43 | Biogenic nano-particulate iron-sulfide produced through sulfate and Fe(<scp>iii</scp>)-(hydr)oxide reductions was enhanced by pyruvate as the electron donor. RSC Advances, 2015, 5, 100750-100761. | 1.7 | 8 |
| 44 | Uranium removal and microbial community inÂaÂH 2 -based membrane biofilm reactor. Water Research, 2014, 64, 255-264. | 5.3 | 86 |
| 45 | Effect of growth conditions on microbial activity and iron-sulfide production by Desulfovibrio vulgaris. Journal of Hazardous Materials, 2014, 272, 28-35. | 6.5 | 48 |
| 46 | Growth of <i>Desulfovibrio vulgaris</i> When Respiring U(VI) and Characterization of Biogenic Uraninite. Environmental Science & Technology, 2014, 48, 6928-6937. | 4.6 | 26 |
| 47 | A biofilm model to understand the onset of sulfate reduction in denitrifying membrane biofilm reactors. Biotechnology and Bioengineering, 2013, 110, 763-772. | 1.7 | 43 |
| 48 | Comparing heterotrophic and hydrogen-based autotrophic denitrification reactors for effluent water quality and post-treatment. Water Science and Technology: Water Supply, 2012, 12, 227-233. | 1.0 | 18 |
| 49 | Hydrogen permeability of the hollow fibers used in H2-based membrane biofilm reactors. Journal of Membrane Science, 2012, 407-408, 176-183. | 4.1 | 85 |
| 50 | A pH-control model for heterotrophic and hydrogen-based autotrophic denitrification. Water Research, 2011, 45, 232-240. | 5.3 | 73 |
| 51 | Using carrier surface loading to design heterotrophic denitrification reactors. Journal - American Water Works Association, 2011, 103, 68-78. | 0.2 | 4 |
| 52 | Hydrogen-Based Nitrate and Selenate Bioreductions in Flue-Gas Desulfurization Brine. Journal of Environmental Engineering, ASCE, 2011, 137, 63-68. | 0.7 | 13 |
| 53 | Bioreduction of nitrate in groundwater using a pilot-scale hydrogen-based membrane biofilm reactor. Frontiers of Environmental Science and Engineering in China, 2010, 4, 280-285. | 0.8 | 37 |