

Chen Zhou

List of Publications by Year in descending order

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53
papers

1,938
citations

218381

26
h-index

264894

42
g-index

55
all docs

55
docs citations

55
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioreduction of Chromate in a Methane-Based Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2016, 50, 5832-5839.	4.6	120
2	Selenate and Nitrate Bioreductions Using Methane as the Electron Donor in a Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2016, 50, 10179-10186.	4.6	119
3	Uranium removal and microbial community in H ₂ -based membrane biofilm reactor. <i>Water Research</i> , 2014, 48, 255-264.	5.3	86
4	Hydrogen permeability of the hollow fibers used in H ₂ -based membrane biofilm reactors. <i>Journal of Membrane Science</i> , 2012, 407-408, 176-183.	4.1	85
5	Concomitant Cr(VI) reduction and Cr(III) precipitation with nitrate in a methane/oxygen-based membrane biofilm reactor. <i>Chemical Engineering Journal</i> , 2017, 315, 58-66.	6.6	83
6	A pH-control model for heterotrophic and hydrogen-based autotrophic denitrification. <i>Water Research</i> , 2011, 45, 232-240.	5.3	73
7	Palladium Recovery in a H ₂ -Based Membrane Biofilm Reactor: Formation of Pd(0) Nanoparticles through Enzymatic and Autocatalytic Reductions. <i>Environmental Science & Technology</i> , 2016, 50, 2546-2555.	4.6	72
8	Complete dechlorination and mineralization of pentachlorophenol (PCP) in a hydrogen-based membrane biofilm reactor (MBfR). <i>Water Research</i> , 2018, 144, 134-144.	5.3	71
9	The distribution of phosphorus and its transformations during batch growth of <i>Synechocystis</i> . <i>Water Research</i> , 2017, 122, 355-362.	5.3	67
10	Coupling of Pd nanoparticles and denitrifying biofilm promotes H ₂ -based nitrate removal with greater selectivity towards N ₂ . <i>Applied Catalysis B: Environmental</i> , 2017, 206, 461-470.	10.8	60
11	Reductive precipitation of sulfate and soluble Fe(III) by <i>Desulfovibrio vulgaris</i> : Electron donor regulates intracellular electron flow and nano-FeS crystallization. <i>Water Research</i> , 2017, 119, 91-101.	5.3	60
12	Enhanced biological stabilization of heavy metals in sediment using immobilized sulfate reducing bacteria beads with inner cohesive nutrient. <i>Journal of Hazardous Materials</i> , 2017, 324, 340-347.	6.5	56
13	The roles of methanogens and acetogens in dechlorination of trichloroethene using different electron donors. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19039-19047.	2.7	49
14	Hydrogenotrophic Microbial Reduction of Oxyanions With the Membrane Biofilm Reactor. <i>Frontiers in Microbiology</i> , 2018, 9, 3268.	1.5	49
15	Effect of growth conditions on microbial activity and iron-sulfide production by <i>Desulfovibrio vulgaris</i> . <i>Journal of Hazardous Materials</i> , 2014, 272, 28-35.	6.5	48
16	4-Chlorophenol (4-CP) Removal by a Palladium-Coated Biofilm: Coupling Catalytic Dechlorination and Microbial Mineralization via Denitrification. <i>Environmental Science & Technology</i> , 2021, 55, 6309-6319.	4.6	45
17	A biofilm model to understand the onset of sulfate reduction in denitrifying membrane biofilm reactors. <i>Biotechnology and Bioengineering</i> , 2013, 110, 763-772.	1.7	43
18	Bioreduction of nitrate in groundwater using a pilot-scale hydrogen-based membrane biofilm reactor. <i>Frontiers of Environmental Science and Engineering in China</i> , 2010, 4, 280-285.	0.8	37

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19	Direct delivery of CO ₂ into a hydrogen-based membrane biofilm reactor and model development. <i>Chemical Engineering Journal</i> , 2016, 290, 154-160.	6.6	35
20	Long-Term Continuous Co-reduction of 1,1,1-Trichloroethane and Trichloroethene over Palladium Nanoparticles Spontaneously Deposited on H ₂ -Transfer Membranes. <i>Environmental Science & Technology</i> , 2021, 55, 2057-2066.	4.6	34
21	Stable dechlorination of Trichloroacetic Acid (TCAA) to acetic acid catalyzed by palladium nanoparticles deposited on H ₂ -transfer membranes. <i>Water Research</i> , 2021, 192, 116841.	5.3	34
22	Dechlorination of 2,4-dichlorophenol in a hydrogen-based membrane palladium-film reactor: Performance, mechanisms, and model development. <i>Water Research</i> , 2021, 188, 116465.	5.3	33
23	Direct solid-state evidence of H ₂ -induced partial U(VI) reduction concomitant with adsorption by extracellular polymeric substances (EPS). <i>Biotechnology and Bioengineering</i> , 2018, 115, 1685-1693.	1.7	31
24	Accurate O ₂ delivery enabled benzene biodegradation through aerobic activation followed by denitrification-coupled mineralization. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1988-1999.	1.7	30
25	Enhanced performance of short-time aerobic digestion for waste activated sludge under the presence of cocoamidopropyl betaine. <i>Chemical Engineering Journal</i> , 2017, 320, 494-500.	6.6	28
26	Total electron acceptor loading and composition affect hexavalent uranium reduction and microbial community structure in a membrane biofilm reactor. <i>Water Research</i> , 2017, 125, 341-349.	5.3	28
27	Low concentrations of Al(III) accelerate the formation of biofilm: Multiple effects of hormesis and flocculation. <i>Science of the Total Environment</i> , 2018, 634, 516-524.	3.9	27
28	Complete dechlorination and mineralization of para-chlorophenol (4-CP) in a hydrogen-based membrane biofilm reactor (MBfR). <i>Journal of Cleaner Production</i> , 2020, 276, 123257.	4.6	27
29	H ₂ -Based Membrane Catalyst-Film Reactor (H ₂ -MCfR) Loaded with Palladium for Removing Oxidized Contaminants in Water. <i>Environmental Science & Technology</i> , 2021, 55, 7082-7093.	4.6	27
30	Growth of <i>Desulfovibrio vulgaris</i> When Respiring U(VI) and Characterization of Biogenic Uraninite. <i>Environmental Science & Technology</i> , 2014, 48, 6928-6937.	4.6	26
31	Adsorption and Reductive Defluorination of Perfluorooctanoic Acid over Palladium Nanoparticles. <i>Environmental Science & Technology</i> , 2021, 55, 14836-14843.	4.6	26
32	Biofilm-enhanced continuous synthesis and stabilization of palladium nanoparticles (PdNPs). <i>Environmental Science: Nano</i> , 2016, 3, 1396-1404.	2.2	25
33	Using flow cytometry to evaluate thermal extraction of EPS from <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , 2016, 20, 276-281.	2.4	24
34	Co-removal of 2,4-dichlorophenol and nitrate using a palladized biofilm: Denitrification-promoted microbial mineralization following catalytic dechlorination. <i>Journal of Hazardous Materials</i> , 2022, 422, 126916.	6.5	24
35	How myristyltrimethylammonium bromide enhances biomass harvesting and pigments extraction from <i>Synechocystis</i> sp. PCC 6803. <i>Water Research</i> , 2017, 126, 189-196.	5.3	23
36	A Synergistic Platform for Continuous Co-removal of 1,1,1-Trichloroethane, Trichloroethene, and 1,4-Dioxane via Catalytic Dechlorination Followed by Biodegradation. <i>Environmental Science & Technology</i> , 2021, 55, 6363-6372.	4.6	23

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37	Palladium (Pd ⁰) Loading-Controlled Catalytic Activity and Selectivity for Chlorophenol Hydrodechlorination and Hydrosaturation. <i>Environmental Science & Technology</i> , 2022, 56, 4447-4456.	4.6	22
38	A kinetic model for 2,4-dichlorophenol adsorption and hydrodechlorination over a palladized biofilm. <i>Water Research</i> , 2022, 214, 118201.	5.3	19
39	Comparing heterotrophic and hydrogen-based autotrophic denitrification reactors for effluent water quality and post-treatment. <i>Water Science and Technology: Water Supply</i> , 2012, 12, 227-233.	1.0	18
40	Enhancing denitrification using a novel in situ membrane biofilm reactor (isMBfR). <i>Water Research</i> , 2017, 119, 234-241.	5.3	18
41	Unsuccessful Urban Governance of Brownfield Land Redevelopment: A Lesson from the Toxic Soil Event in Changzhou, China. <i>Sustainability</i> , 2017, 9, 824.	1.6	16
42	Evaluation of Zinc Oxide Nanoparticles-Induced Effects on Nitrogen and Phosphorus Removal from Real and Synthetic Municipal Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7929-7936.	1.8	16
43	Microbial transformations by sulfur bacteria can recover value from phosphogypsum: A global problem and a possible solution. <i>Biotechnology Advances</i> , 2022, 57, 107949.	6.0	15
44	Anaerobic biodegradation of catechol by sediment microorganisms: Interactive roles of N reduction and S cycling. <i>Journal of Cleaner Production</i> , 2019, 230, 80-89.	4.6	14
45	Hydrogen-Based Nitrate and Selenate Bioreductions in Flue-Gas Desulfurization Brine. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 63-68.	0.7	13
46	Electron acceptor loadings affect chloroform dechlorination in a hydrogen-based membrane biofilm reactor. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1439-1448.	1.7	13
47	Hydrodefluorination of Perfluorooctanoic Acid in the H ₂ -Based Membrane Catalyst-Film Reactor with Platinum Group Metal Nanoparticles: Pathways and Optimal Conditions. <i>Environmental Science & Technology</i> , 2021, 55, 16699-16707.	4.6	13
48	Locked post-fossil consumption of urban decentralized solar photovoltaic energy: A case study of an on-grid photovoltaic power supply community in Nanjing, China. <i>Applied Energy</i> , 2016, 172, 1-11.	5.1	9
49	Biogenic nano-particulate iron-sulfide produced through sulfate and Fe(III)-(hydr)oxide reductions was enhanced by pyruvate as the electron donor. <i>RSC Advances</i> , 2015, 5, 100750-100761.	1.7	8
50	The Nature and Oxidative Reactivity of Urban Magnetic Nanoparticle Dust Provide New Insights into Potential Neurotoxicity Studies. <i>Environmental Science & Technology</i> , 2020, 54, 10599-10609.	4.6	7
51	Using carrier surface loading to design heterotrophic denitrification reactors. <i>Journal - American Water Works Association</i> , 2011, 103, 68-78.	0.2	4
52	Modeling Trichloroethene Reduction, Methanogenesis, and Homoacetogenesis in a H ₂ -Based Biofilm. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	3
53	Reductive destruction of multiple nitrated energetics over palladium nanoparticles in the H ₂ -based membrane catalyst-film reactor (MCFR). <i>Journal of Hazardous Materials</i> , 2022, 423, 127055.	6.5	2