

Chen Zhou

List of Publications by Year in descending order

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53
papers

1,938
citations

218677

26
h-index

265206

42
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55
all docs

55
docs citations

55
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Reductive destruction of multiple nitrated energetics over palladium nanoparticles in the H ₂ -based membrane catalyst-film reactor (MCfR). Journal of Hazardous Materials, 2022, 423, 127055.	12.4	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.	12.4	24
3	Palladium (Pd ⁰) Loading-Controlled Catalytic Activity and Selectivity for Chlorophenol Hydrodechlorination and Hydrosaturation. Environmental Science & Technology, 2022, 56, 4447-4456.	10.0	22
4	A kinetic model for 2,4-dichlorophenol adsorption and hydrodechlorination over a palladized biofilm. Water Research, 2022, 214, 118201.	11.3	19
5	Microbial transformations by sulfur bacteria can recover value from phosphogypsum: A global problem and a possible solution. Biotechnology Advances, 2022, 57, 107949.	11.7	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.	11.3	33
7	Long-Term Continuous Co-reduction of 1,1,1-Trichloroethane and Trichloroethene over Palladium Nanoparticles Spontaneously Deposited on H ₂ -Transfer Membranes. Environmental Science & Technology, 2021, 55, 2057-2066.	10.0	34
8	Stable dechlorination of Trichloroacetic Acid (TCAA) to acetic acid catalyzed by palladium nanoparticles deposited on H ₂ -transfer membranes. Water Research, 2021, 192, 116841.	11.3	34
9	H ₂ -Based Membrane Catalyst-Film Reactor (H ₂ -MCfR) Loaded with Palladium for Removing Oxidized Contaminants in Water. Environmental Science & Technology, 2021, 55, 7082-7093.	10.0	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.	10.0	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.	10.0	23
12	Adsorption and Reductive Defluorination of Perfluorooctanoic Acid over Palladium Nanoparticles. Environmental Science & Technology, 2021, 55, 14836-14843.	10.0	26
13	Hydrodefluorination of Perfluorooctanoic Acid in the H ₂ -Based Membrane Catalyst-Film Reactor with Platinum Group Metal Nanoparticles: Pathways and Optimal Conditions. Environmental Science & Technology, 2021, 55, 16699-16707.	10.0	13
14	Modeling Trichloroethene Reduction, Methanogenesis, and Homoacetogenesis in a H ₂ -Based Biofilm. Journal of Environmental Engineering, ASCE, 2020, 146, .	1.4	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.	9.3	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.	10.0	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.	9.3	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.	3.7	16

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19	Electron acceptor loadings affect chloroform dechlorination in a hydrogen-based membrane biofilm reactor. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1439-1448.	3.3	13
20	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.	3.3	31
21	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.	8.0	27
22	Accurate O ₂ delivery enabled benzene biodegradation through aerobic activation followed by denitrification-coupled mineralization. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1988-1999.	3.3	30
23	Complete dechlorination and mineralization of pentachlorophenol (PCP) in a hydrogen-based membrane biofilm reactor (MBfR). <i>Water Research</i> , 2018, 144, 134-144.	11.3	71
24	Hydrogenotrophic Microbial Reduction of Oxyanions With the Membrane Biofilm Reactor. <i>Frontiers in Microbiology</i> , 2018, 9, 3268.	3.5	49
25	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.	12.7	83
26	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.	20.2	60
27	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.	11.3	60
28	Enhancing denitrification using a novel in situ membrane biofilm reactor (isMBfR). <i>Water Research</i> , 2017, 119, 234-241.	11.3	18
29	The distribution of phosphorus and its transformations during batch growth of <i>Synechocystis</i> . <i>Water Research</i> , 2017, 122, 355-362.	11.3	67
30	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.	12.7	28
31	How myristyltrimethylammonium bromide enhances biomass harvesting and pigments extraction from <i>Synechocystis</i> sp. PCC 6803. <i>Water Research</i> , 2017, 126, 189-196.	11.3	23
32	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.	11.3	28
33	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.	12.4	56
34	Unsuccessful Urban Governance of Brownfield Land Redevelopment: A Lesson from the Toxic Soil Event in Changzhou, China. <i>Sustainability</i> , 2017, 9, 824.	3.2	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. <i>Applied Energy</i> , 2016, 172, 1-11.	10.1	9
36	Bioreduction of Chromate in a Methane-Based Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2016, 50, 5832-5839.	10.0	120

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37	Biofilm-enhanced continuous synthesis and stabilization of palladium nanoparticles (PdNPs). Environmental Science: Nano, 2016, 3, 1396-1404.	4.3	25
38	Selenate and Nitrate Bioreductions Using Methane as the Electron Donor in a Membrane Biofilm Reactor. Environmental Science & Technology, 2016, 50, 10179-10186.	10.0	119
39	Using flow cytometry to evaluate thermal extraction of EPS from <i>Synechocystis</i> sp. PCC 6803. Algal Research, 2016, 20, 276-281.	4.6	24
40	Direct delivery of CO ₂ into a hydrogen-based membrane biofilm reactor and model development. Chemical Engineering Journal, 2016, 290, 154-160.	12.7	35
41	Palladium Recovery in a H ₂ -Based Membrane Biofilm Reactor: Formation of Pd(0) Nanoparticles through Enzymatic and Autocatalytic Reductions. Environmental Science & Technology, 2016, 50, 2546-2555.	10.0	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.	5.3	49
43	Biogenic nano-particulate iron-sulfide produced through sulfate and Fe(ⁱⁱⁱ)-(hydr)oxide reductions was enhanced by pyruvate as the electron donor. RSC Advances, 2015, 5, 100750-100761.	3.6	8
44	Uranium removal and microbial community in H ₂ -based membrane biofilm reactor. Water Research, 2014, 64, 255-264.	11.3	86
45	Effect of growth conditions on microbial activity and iron-sulfide production by <i>Desulfovibrio vulgaris</i> . Journal of Hazardous Materials, 2014, 272, 28-35.	12.4	48
46	Growth of <i>Desulfovibrio vulgaris</i> When Respiring U(VI) and Characterization of Biogenic Uraninite. Environmental Science & Technology, 2014, 48, 6928-6937.	10.0	26
47	A biofilm model to understand the onset of sulfate reduction in denitrifying membrane biofilm reactors. Biotechnology and Bioengineering, 2013, 110, 763-772.	3.3	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.	2.1	18
49	Hydrogen permeability of the hollow fibers used in H ₂ -based membrane biofilm reactors. Journal of Membrane Science, 2012, 407-408, 176-183.	8.2	85
50	A pH-control model for heterotrophic and hydrogen-based autotrophic denitrification. Water Research, 2011, 45, 232-240.	11.3	73
51	Using carrier surface loading to design heterotrophic denitrification reactors. Journal - American Water Works Association, 2011, 103, 68-78.	0.3	4
52	Hydrogen-Based Nitrate and Selenate Bioreductions in Flue-Gas Desulfurization Brine. Journal of Environmental Engineering, ASCE, 2011, 137, 63-68.	1.4	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