

# Hua Zhong

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

3,830  
citations

159358

30  
h-index

123241

61  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Migration and transformation of Sb are affected by Mn(III/IV) associated with lepidocrocite originating from Fe(II) oxidation. <i>Journal of Environmental Sciences</i> , 2022, 115, 308-318.	3.2	6
2	Assessing the Global Relationships Between Teleconnection Factors and Terrestrial Water Storage Components. <i>Water Resources Management</i> , 2022, 36, 119-133.	1.9	3
3	Aerobic and anaerobic biodegradation of BDE-47 by bacteria isolated from an e-waste-contaminated site and the effect of various additives. <i>Chemosphere</i> , 2022, 294, 133739.	4.2	4
4	Alkane solubilization by surfactants: Aggregate view and size analysis based on cryo-TEM. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128589.	2.3	2
5	Solubilization of residual dodecane by surfactants in porous media: The relation between surfactant partition and solubilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129421.	2.3	1
6	Investigation of Fe(II) and Mn(II) involved anoxic denitrification in agricultural soils with high manganese and iron contents. <i>Journal of Soils and Sediments</i> , 2021, 21, 452-468.	1.5	10
7	Testing the validity of the miscible-displacement interfacial tracer method for measuring air-water interfacial area: Independent benchmarking and mathematical modeling. <i>Chemosphere</i> , 2021, 263, 128193.	4.2	10
8	Production, functional stability, and effect of rhamnolipid biosurfactant from <i>Klebsiella</i> sp. on phenanthrene degradation in various medium systems. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111514.	2.9	51
9	Bioretention for removal of nitrogen: processes, operational conditions, and strategies for improvement. <i>Environmental Science and Pollution Research</i> , 2021, 28, 10519-10535.	2.7	20
10	Film entrainment and microplastic particles retention during gas invasion in suspension-filled microchannels. <i>Water Research</i> , 2021, 194, 116919.	5.3	20
11	Iron-mediated activation of persulfate and peroxymonosulfate in both homogeneous and heterogeneous ways: A review. <i>Chemical Engineering Journal</i> , 2020, 384, 123265.	6.6	544
12	Transport of engineered nanoparticles in porous media and its enhancement for remediation of contaminated groundwater. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2301-2378.	6.6	30
13	Sub-CMC solubilization of n-alkanes by rhamnolipid biosurfactant: the Influence of rhamnolipid molecular structure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111049.	2.5	8
14	Purification Effect of the Aquaculture Wastewater and Sediment by Microbial Nanospheres with Different Material Ratios and Dosing Methods. <i>Sustainability</i> , 2020, 12, 1462.	1.6	6
15	Oxygen-Vacancy-Enhanced Peroxidase-like Activity of Reduced Co <sub>3</sub> O <sub>4</sub> Nanocomposites for the Colorimetric Detection of H <sub>2</sub> O <sub>2</sub> and Glucose. <i>Inorganic Chemistry</i> , 2020, 59, 3152-3159.	1.9	92
16	Evaluation of water quality in the South-to-North Water Diversion Project of China using the water quality index (WQI) method. <i>Water Research</i> , 2020, 178, 115781.	5.3	238
17	Surfactant-enhanced aquifer remediation: Mechanisms, influences, limitations and the countermeasures. <i>Chemosphere</i> , 2020, 252, 126620.	4.2	58
18	Transport of <i>Pseudomonas aeruginosa</i> in Porous Media Mediated by Low Concentration Surfactants: The Critical Role of Surfactant to Change Cell Surface Hydrophobicity. <i>Water Resources Research</i> , 2020, 56, e2019WR026103.	1.7	14

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19	Heterogeneous Fenton-like catalyst for treatment of rhamnolipid-solubilized hexadecane wastewater. <i>Chemosphere</i> , 2019, 236, 124387.	4.2	93
20	The performance of pyrite-based autotrophic denitrification column for permeable reactive barrier under natural environment. <i>Bioresource Technology</i> , 2019, 290, 121763.	4.8	33
21	Spatio-temporal Characterization Analysis and Water Quality Assessment of the South-to-North Water Diversion Project of China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2227.	1.2	26
22	Calcimimetic R568 improved cardiac remodeling by classic and novel renin-angiotensin system in spontaneously hypertensive rats. <i>Experimental Biology and Medicine</i> , 2019, 244, 789-801.	1.1	7
23	Cobalt Nanoparticles Embedded into N-Doped Carbon from Metal Organic Frameworks as Highly Active Electrocatalyst for Oxygen Evolution Reaction. <i>Polymers</i> , 2019, 11, 828.	2.0	36
24	The natural activation ability of subsurface media to promote in-situ chemical oxidation of 1,4-dioxane. <i>Water Research</i> , 2019, 149, 386-393.	5.3	37
25	Mechanisms for rhamnolipids-mediated biodegradation of hydrophobic organic compounds. <i>Science of the Total Environment</i> , 2018, 634, 1-11.	3.9	75
26	Fabrication of BSA@AuNC-Based Nanostructures for Cell Fluorescence Imaging and Target Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8947-8954.	4.0	83
27	Fabrication of the tea saponin functionalized reduced graphene oxide for fast adsorptive removal of Cd(II) from water. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	7
28	Application of molecular docking for the degradation of organic pollutants in the environmental remediation: A review. <i>Chemosphere</i> , 2018, 203, 139-150.	4.2	111
29	Advances in applications of rhamnolipids biosurfactant in environmental remediation: A review. <i>Biotechnology and Bioengineering</i> , 2018, 115, 796-814.	1.7	148
30	Effects of rhamnolipids on the removal of 2,4,2,4-tetrabrominated biphenyl ether (BDE-47) by <i>Phanerochaete chrysosporium</i> analyzed with a combined approach of experiments and molecular docking. <i>Chemosphere</i> , 2018, 210, 922-930.	4.2	38
31	Effects of rhamnolipids on microorganism characteristics and applications in composting: A review. <i>Microbiological Research</i> , 2017, 200, 33-44.	2.5	133
32	Nonparaxial Accelerating Electron Beams. <i>IEEE Journal of Quantum Electronics</i> , 2017, 53, 1-6.	1.0	0
33	Transport of bacteria in porous media and its enhancement by surfactants for bioaugmentation: A review. <i>Biotechnology Advances</i> , 2017, 35, 490-504.	6.0	77
34	A novel fluorescent biosensor for Adenosine Triphosphate detection based on the polydopamine nanospheres integrating with enzymatic recycling amplification. <i>Talanta</i> , 2017, 169, 8-12.	2.9	19
35	Effect of low concentration rhamnolipid biosurfactant on <i>Pseudomonas aeruginosa</i> transport in natural porous media. <i>Water Resources Research</i> , 2017, 53, 361-375.	1.7	25
36	Thiophene-based rhodamine as selective fluorescence probe for Fe(III) and Al(III) in living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5547-5554.	1.9	20

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37	Investigation on the reaction of phenolic pollutions to mono-rhamnolipid micelles using MEUF. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1230-1240.	2.7	17
38	Hollow and hierarchical Na <sub>2</sub> Li <sub>2</sub> Ti <sub>6</sub> O <sub>14</sub> microspheres with high electrochemical performance as anode material for lithium-ion battery. <i>Science China Materials</i> , 2017, 60, 427-437.	3.5	30
39	Reply for comment on “Adsorptive removal of methylene blue by rhamnolipid-functionalized graphene oxide from wastewater”. <i>Water Research</i> , 2017, 108, 464-465.	5.3	8
40	Effect of rhamnolipid solubilization on hexadecane bioavailability: enhancement or reduction?. <i>Journal of Hazardous Materials</i> , 2017, 322, 394-401.	6.5	117
41	Degradation of landfill leachate compounds by persulfate for groundwater remediation. <i>Chemical Engineering Journal</i> , 2017, 307, 399-407.	6.6	67
42	Sub-CMC solubilization of dodecane by rhamnolipid in saturated porous media. <i>Scientific Reports</i> , 2016, 6, 33266.	1.6	22
43	Enhanced adsorptive removal of p-nitrophenol from water by aluminum metal-organic framework/reduced graphene oxide composite. <i>Scientific Reports</i> , 2016, 6, 25638.	1.6	134
44	Fast removal of tetracycline from wastewater by reduced graphene oxide prepared via microwave-assisted ethylenediamine-N,N'-disuccinic acid induction method. <i>Environmental Science and Pollution Research</i> , 2016, 23, 18657-18671.	2.7	37
45	Effect of low-concentration rhamnolipid on transport of <i>Pseudomonas aeruginosa</i> ATCC 9027 in an ideal porous medium with hydrophilic or hydrophobic surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 244-248.	2.5	26
46	Aggregate-based sub-CMC solubilization of n-alkanes by monorhamnolipid biosurfactant. <i>New Journal of Chemistry</i> , 2016, 40, 2028-2035.	1.4	28
47	Characteristics of mannosylerythritol lipids and their environmental potential. <i>Carbohydrate Research</i> , 2015, 407, 63-72.	1.1	47
48	Aggregation of low-concentration dirhamnolipid biosurfactant in electrolyte solution. <i>RSC Advances</i> , 2015, 5, 88578-88582.	1.7	21
49	Aggregate-based sub-CMC solubilization of hexadecane by surfactants. <i>RSC Advances</i> , 2015, 5, 78142-78149.	1.7	25
50	Effect of low-concentration rhamnolipid on adsorption of <i>Pseudomonas aeruginosa</i> ATCC 9027 on hydrophilic and hydrophobic surfaces. <i>Journal of Hazardous Materials</i> , 2015, 285, 383-388.	6.5	45
51	Static aerobic composting of municipal sewage sludge with forced ventilation: Using matured compost as bulking conditioner. <i>Journal of Central South University</i> , 2014, 21, 303-309.	1.2	6
52	Adsorptive removal of methylene blue by rhamnolipid-functionalized graphene oxide from wastewater. <i>Water Research</i> , 2014, 67, 330-344.	5.3	527
53	Degradation of pseudo-solubilized and mass hexadecane by a <i>Pseudomonas aeruginosa</i> with treatment of rhamnolipid biosurfactant. <i>International Biodeterioration and Biodegradation</i> , 2014, 94, 152-159.	1.9	37
54	Role of low-concentration monorhamnolipid in cell surface hydrophobicity of <i>Pseudomonas aeruginosa</i> : adsorption or lipopolysaccharide content variation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 10231-10241.	1.7	20

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55	Optimizing rhamnolipid production by <i>Pseudomonas aeruginosa</i> ATCC 9027 grown on waste frying oil using response surface method and batch-fed fermentation. <i>Journal of Central South University</i> , 2013, 20, 1015-1021.	1.2	31
56	Modular design of an ultrahigh-intensity nanoparticle probe for cancer cell imaging and rapid visual detection of nucleic acids. <i>Chemical Communications</i> , 2012, 48, 6277.	2.2	12
57	Effect of rhamnolipids on cadmium adsorption by <i>Penicillium simplicissimum</i> . <i>Journal of Central South University</i> , 2012, 19, 1073-1080.	1.2	16
58	Influence of rhamnolipids and Triton X-100 on adsorption of phenol by <i>Penicillium simplicissimum</i> . <i>Bioresource Technology</i> , 2012, 110, 468-473.	4.8	39
59	Effect of monorhamnolipid on the degradation of n-hexadecane by <i>Candida tropicalis</i> and the association with cell surface properties. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1155-1161.	1.7	56
60	Effects of surfactants on enzyme-containing reversed micellar system. <i>Science China Chemistry</i> , 2011, 54, 715-723.	4.2	15
61	Production and characterization of biosurfactant from <i>Bacillus subtilis</i> CCTCC AB93108. <i>Central South University</i> , 2010, 17, 516-521.	0.5	5
62	Design of one-to-one recognition triple Au nanoparticles DNA probe and its application in the electrochemical DNA biosensor. <i>Chemical Communications</i> , 2009, , 6958.	2.2	18
63	Adsorption of monorhamnolipid and dirhamnolipid on two <i>Pseudomonas aeruginosa</i> strains and the effect on cell surface hydrophobicity. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 671-677.	1.7	79
64	Effects of dirhamnolipid and SDS on enzyme production from <i>Phanerochaete chrysosporium</i> in submerged fermentation. <i>Process Biochemistry</i> , 2008, 43, 1300-1303.	1.8	29
65	Terahertz wave reference-free phase imaging for identification of explosives. <i>Applied Physics Letters</i> , 2008, 92, 091117.	1.5	42
66	A phase feature extraction technique for terahertz reflection spectroscopy. <i>Applied Physics Letters</i> , 2008, 92, 221106.	1.5	18
67	Adsorption of dirhamnolipid on four microorganisms and the effect on cell surface hydrophobicity. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 447-455.	1.7	84
68	Co-degradation with glucose of four surfactants, CTAB, Triton X-100, SDS and Rhamnolipid, in liquid culture media and compost matrix. <i>Biodegradation</i> , 2007, 18, 303-310.	1.5	87