

# Mutai Bao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

2,178  
citations

27  
h-index

42  
g-index

103  
ext. papers

2,738  
ext. citations

7.4  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
102	Enhanced photocatalytic activity of glyphosate over a combination strategy of GQDs/TNAs heterojunction composites. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 607, 607-620	9.3	1
101	Efficient biodegradation of phenanthrene using <i>Pseudomonas stutzeri</i> LSH-PAH1 with the addition of sophorolipids: Alleviation of biotoxicity and cometabolism studies.. <i>Environmental Pollution</i> , <b>2022</b> , 119011	9.3	0
100	A super-hydrophobic and antibiofouling membrane constructed from carbon sphere-welded MnO <sub>2</sub> nanowires for ultra-fast separation of emulsion. <i>Journal of Membrane Science</i> , <b>2022</b> , 653, 120514	9.6	1
99	A solar-heated antibacterial sodium alginate aerogel for highly efficient cleanup of viscous oil spills.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 621, 241-253	9.3	1
98	Mesoscale evaluation of oil submerging and floating processes during marine oil spill response: effects of dispersant on submerging stability and the associated mechanism. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 129153	12.8	1
97	New insights into the interaction between asphaltene and hydrolyzed polyacrylamide at the oil-water interface based on emulsion stability. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 215, 110628	4.4	0
96	The proliferation and colonization of functional bacteria on amorphous polyethylene terephthalate: Key role of ultraviolet irradiation and nonionic surfactant polysorbate 80 addition. <i>Chemosphere</i> , <b>2021</b> , 132940	8.4	0
95	Occurrence and distribution of cyclic-alkane-consuming psychrophilic bacteria in the Yellow Sea and East China Sea.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 427, 128129	12.8	0
94	Solid inoculants as a practice for bioaugmentation to enhance bioremediation of hydrocarbon contaminated areas. <i>Chemosphere</i> , <b>2021</b> , 263, 128175	8.4	8
93	TiO <sub>2</sub> @palygorskite composite for the efficient remediation of oil spills via a dispersion-photodegradation synergy. <i>Frontiers of Environmental Science and Engineering</i> , <b>2021</b> , 15, 1	5.8	6
92	Hydrolyzed polyacrylamide-containing wastewater treatment using ozone reactor-upflow anaerobic sludge blanket reactor-aerobic biofilm reactor multistage treatment system. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116111	9.3	7
91	Integrated asymmetric superwetting Janus membrane for the efficient separation of various surfactant-stabilized oil/water emulsions. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 2235-2248	7.1	4
90	Construction of a Superhydrophobic Sodium Alginate Aerogel for Efficient Oil Absorption and Emulsion Separation. <i>Langmuir</i> , <b>2021</b> , 37, 882-893	4	22
89	Magnetic chitosan-based aerogel decorated with polydimethylsiloxane: A high-performance scavenger for oil in water. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50461	2.9	7
88	Temperature mediates metabolism switching of <i>Bacillus</i> sp. ZT-1: Analysis of the properties and structure of exopolysaccharides. <i>Microbiological Research</i> , <b>2021</b> , 251, 126839	5.3	1
87	Deep remediation of oil spill based on the dispersion and photocatalytic degradation of biosurfactant-modified TiO <sub>2</sub> . <i>Chemosphere</i> , <b>2021</b> , 281, 130744	8.4	1
86	Rapid capturing of oil-degrading bacteria by engineered attapulgitite and their synergistic remediation for oil spill. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 604, 272-280	9.3	3

85	Correlation between polyhydroxyalkanoates and extracellular polymeric substances in the activated sludge biosystems with different carbon to nitrogen ratio. <i>Biochemical Engineering Journal</i> , <b>2021</b> , 176, 108204	4.2	1
84	Fabrication of MIL-Fe (53)/modified g-C3N4 photocatalyst synergy H2O2 for degradation of tetracycline. <i>Separation and Purification Technology</i> , <b>2021</b> , 279, 119661	8.3	6
83	The interaction between dispersed crude oil droplets and particulate matter. <i>Environmental Sciences: Processes and Impacts</i> , <b>2020</b> , 22, 1397-1407	4.3	
82	Effects of suspended particulate matter, surface oil layer thickness and surfactants on the formation and transport of oil-sediment aggregates (OSA). <i>International Biodeterioration and Biodegradation</i> , <b>2020</b> , 149, 104925	4.8	10
81	Key role of different levels of dissolved oxygen in hydrolyzed polyacrylamide bioconversion: Focusing on metabolic products, key enzymes and functional microorganisms. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123089	11	2
80	Preparation of superhydrophobic magnetic sawdust for effective oil/water separation. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 120058	10.3	19
79	An environmentally benign approach to prepare superhydrophobic magnetic melamine sponge for effective oil/water separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 236, 116308	8.3	44
78	Simultaneous nitrification and denitrification in an aerobic biofilm biosystem with loofah sponges as carriers for biodegrading hydrolyzed polyacrylamide-containing wastewater. <i>Bioprocess and Biosystems Engineering</i> , <b>2020</b> , 43, 529-540	3.7	5
77	Construction of a hydrophobic magnetic aerogel based on chitosan for oil/water separation applications. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 1869-1880	7.9	16
76	Multi-functional magnetic bacteria as efficient and economical Pickering emulsifiers for encapsulation and removal of oil from water. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 349-358	9.3	16
75	Amphiphilic Janus particles for efficient dispersion of oil contaminants in seawater. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 54-64	9.3	20
74	3D Bombax-structured carbon nanotube sponge coupling with AgPO for tetracycline degradation under ultrasound and visible light irradiation. <i>Science of the Total Environment</i> , <b>2019</b> , 695, 133694	10.2	33
73	Insights into the effect of different levels of crude oil on hydrolyzed polyacrylamide biotransformation in aerobic and anoxic biosystems: Bioresource production, enzymatic activity, and microbial function. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122023	11	6
72	Regulation of different electron acceptors on petroleum hydrocarbon biotransformation to final products in activated sludge biosystems. <i>Bioprocess and Biosystems Engineering</i> , <b>2019</b> , 42, 643-655	3.7	5
71	Great correlation: Biodegradation and chemotactic adsorption of <i>Pseudomonas synxantha</i> LSH-7R for oil contaminated seawater bioremediation. <i>Water Research</i> , <b>2019</b> , 153, 160-168	12.5	7
70	Improvement in emulsifying properties of whey protein-Rhamnolipid conjugates through short-time heat treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 181, 688-695	6	6
69	Letter to the editor: Recognition of Athas et al. (Langmuir, 2014). <i>Chemosphere</i> , <b>2019</b> , 233, 985	8.4	
68	Magnet-Responsive Silica Microrods as Solid Stabilizer and Adsorbent for Simultaneous Removal of Coexisting Contaminants in Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 13786-13795	8.3	14

67	Biodegradation of hydrolyzed polyacrylamide by a <i>Bacillus megaterium</i> strain SZK-5: Functional enzymes and antioxidant defense mechanism. <i>Chemosphere</i> , <b>2019</b> , 231, 184-193	8.4	15
66	Biohydrogen and polyhydroxyalkanoate production from original hydrolyzed polyacrylamide-containing wastewater. <i>Bioresource Technology</i> , <b>2019</b> , 287, 121404	11	19
65	Morphology and Surface Chemistry of Gas-Wetting Nanoparticles and Their Effect on the Liquid Menisci in Porous Media. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 6747-6755	3.9	18
64	Unprecedented efficient degradation of phenanthrene in water by intimately coupling novel ternary composite Mn <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> -Ag <sub>3</sub> PO <sub>4</sub> and functional bacteria under visible light irradiation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 1078-1092	14.7	44
63	Petroleum hydrocarbon release behavior study in oil-sediment aggregates: turbulence intensity and chemical dispersion effect.. <i>RSC Advances</i> , <b>2019</b> , 9, 7922-7931	3.7	4
62	Microbial degradation of four dispersed crude oils by <i>Rhodococcus</i> sp. evaluated using carbon stable isotope analysis. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 1800-1807	3.5	6
61	Facile one-step synthesis of onion-like carbon modified ultrathin g-CN 2D nanosheets with enhanced visible-light photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 47-58	9.3	33
60	Enhanced hydrolyzed polyacrylamide removal from water by an aerobic biofilm reactor-ozone reactor-aerobic biofilm reactor hybrid treatment system: Performance, key enzymes and functional microorganisms. <i>Bioresource Technology</i> , <b>2019</b> , 291, 121811	11	12
59	Hydrolyzed polyacrylamide biotransformation in an up-flow anaerobic sludge blanket reactor system: key enzymes, functional microorganisms, and biodegradation mechanisms. <i>Bioprocess and Biosystems Engineering</i> , <b>2019</b> , 42, 941-951	3.7	15
58	Effect of surfactants on the solubilization, sorption and biodegradation of benzo (a) pyrene by <i>Pseudomonas aeruginosa</i> BT-1. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 96, 121-130	5.3	9
57	Advanced treatment for actual hydrolyzed polyacrylamide-containing wastewater in a biofilm/activated sludge membrane bioreactor system: Biodegradation and interception. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 141, 120-130	4.2	13
56	An efficient and environmental-friendly dispersant based on the synergy of amphiphilic surfactants for oil spill remediation. <i>Chemosphere</i> , <b>2019</b> , 215, 241-247	8.4	31
55	An efficient classification method for fuel and crude oil types based on m/z 256 mass chromatography by COW-PCA-LDA. <i>Fuel</i> , <b>2018</b> , 222, 416-423	7.1	13
54	Potential of hydrolyzed polyacrylamide biodegradation to final products through regulating its own nitrogen transformation in different dissolved oxygen systems. <i>Bioresource Technology</i> , <b>2018</b> , 256, 61-68	11	18
53	Effects of different electron acceptors on the methanogenesis of hydrolyzed polyacrylamide biodegradation in anaerobic activated sludge systems. <i>Bioresource Technology</i> , <b>2018</b> , 247, 759-768	11	13
52	Insight into the highly efficient degradation of PAHs in water over graphene oxide/Ag <sub>3</sub> PO <sub>4</sub> composites under visible light irradiation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 355-376	14.7	79
51	Promoting the treatment of crude oil alkane pollution through the study of enzyme activity. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 119, 708-716	7.9	9
50	Construction of long-chain alkane degrading bacteria and its application in bioremediation of crude oil pollution. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 119, 524-532	7.9	8

49	Biodegradation of hydrolyzed polyacrylamide by the combined expanded granular sludge bed reactor-aerobic biofilm reactor biosystem and key microorganisms involved in this bioprocess. <i>Bioresource Technology</i> , <b>2018</b> , 263, 153-162	11	37
48	Dominant species succession and oil behavior change under LSH-7? petroleum hydrocarbon degradation bacteria and chemical dispersant in open water columns. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 93, 519-527	5.3	1
47	RNA-seq analysis reveals the significant effects of different light conditions on oil degradation by marine <i>Chlorella vulgaris</i> . <i>Marine Pollution Bulletin</i> , <b>2018</b> , 137, 267-276	6.7	5
46	Microbial degradation of four crude oil by biosurfactant producing strain <i>Rhodococcus</i> sp. <i>Bioresource Technology</i> , <b>2017</b> , 232, 263-269	11	43
45	The enhanced stability and biodegradation of dispersed crude oil droplets by Xanthan Gum as an additive of chemical dispersant. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 118, 275-280	6.7	21
44	The contribution of chemical dispersants and biosurfactants on crude oil biodegradation by <i>Pseudomonas</i> sp. LSH-7?. <i>Journal of Cleaner Production</i> , <b>2017</b> , 153, 74-82	10.3	26
43	Metabolic pathway for a new strain <i>Pseudomonas synxantha</i> LSH-7R from chemotaxis to uptake of n-hexadecane. <i>Scientific Reports</i> , <b>2017</b> , 7, 39068	4.9	26
42	Individually immobilized and surface-modified hydrocarbon-degrading bacteria for oil emulsification and biodegradation. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 125, 433-439	6.7	8
41	Kinetics and thermodynamics of dissolved petroleum hydrocarbons in sediment under sophorolipid application and their effects on oil behaviour end-results in marine environment. <i>RSC Advances</i> , <b>2017</b> , 7, 45843-45851	3.7	6
40	Study on the biodegradation of crude oil by free and immobilized bacterial consortium in marine environment. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174445	3.7	49
39	Highly permeable and stable forward osmosis (FO) membrane based on the incorporation of Al <sub>2</sub> O <sub>3</sub> nanoparticles into both substrate and polyamide active layer. <i>RSC Advances</i> , <b>2017</b> , 7, 40311-40320	3.7	41
38	Highly Efficient Photocatalytic Remediation of Simulated Polycyclic Aromatic Hydrocarbons (PAHs) Contaminated Wastewater under Visible Light Irradiation by Graphene Oxide Enwrapped Ag <sub>3</sub> PO <sub>4</sub> Composite.. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 1549-1558	4.9	11
37	A new perspective of particle adsorption: Dispersed oil and granular materials interactions in simulated coastal environment. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 122, 100-109	6.7	5
36	Fabrication of organic-inorganic nanofiltration membrane using ordered stacking SiO <sub>2</sub> thin film as rejection layer assisted with layer-by-layer method. <i>Chemical Engineering Journal</i> , <b>2017</b> , 330, 337-344	14.7	34
35	The formation process and responsive impacts of single oil droplet in submerged process. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 124, 139-146	6.7	7
34	Back Cover: Highly Efficient Photocatalytic Remediation of Simulated Polycyclic Aromatic Hydrocarbons (PAHs) Contaminated Wastewater under Visible Light Irradiation by Graphene Oxide Enwrapped Ag <sub>3</sub> PO <sub>4</sub> Composite (Chin. J. Chem. 10/2017). <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 1650-1650	4.9	
33	Constructing a novel ternary composite (C <sub>16</sub> H <sub>33</sub> (CH <sub>3</sub> ) <sub>3</sub> N) <sub>4</sub> W <sub>10</sub> O <sub>32</sub> /g-C <sub>3</sub> N <sub>4</sub> /rGO with enhanced visible-light-driven photocatalytic activity for degradation of dyes and phenol. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 283-296	21.8	78
32	Facile Fabrication of Cyclodextrin-Modified Magnetic Particles for Effective Demulsification from Various Types of Emulsions. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8809-16	10.3	59

31	Hydrolyzed polyacrylamide biodegradation and mechanism in sequencing batch biofilm reactor. <i>Bioresource Technology</i> , <b>2016</b> , 207, 315-21	11	27
30	Dodecanol-Modified Petroleum Hydrocarbon Degrading Bacteria for Oil Spill Remediation: Double Effect on Dispersion and Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 169-176	8.3	13
29	Degradation of crude oil and relationship with bacteria and enzymatic activities in laboratory testing. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 106, 106-116	4.8	22
28	Kinetics and thermodynamics of biodegradation of hydrolyzed polyacrylamide under anaerobic and aerobic conditions. <i>Bioresource Technology</i> , <b>2016</b> , 216, 95-104	11	16
27	Novel and Environmentally Friendly Oil Spill Dispersant Based on the Synergy of Biopolymer Xanthan Gum and Silica Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3095-3102	8.3	36
26	Facile fabrication of acidified g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrids with enhanced photocatalysis performance under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 193, 22-35	21.8	283
25	Experimental study of oil plume stability: Parametric dependences and optimization. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 111, 358-364	6.7	2
24	Microbial community structure shifts are associated with temperature, dispersants and nutrients in crude oil-contaminated seawaters. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 111, 203-212	6.7	31
23	Petroleum hydrocarbon degrading bacteria associated with chitosan as effective particle-stabilizers for oil emulsification. <i>RSC Advances</i> , <b>2015</b> , 5, 37640-37647	3.7	17
22	Bioremediation of the oil spill polluted marine intertidal zone and its toxicity effect on microalgae. <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 877-85	4.3	16
21	Sensitivity and Identification Indexes for Fuel Oils and Crude Oils Based on the Hydrocarbon Components and Diagnostic Ratios Using Principal Component Analysis (PCA) Biplots. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 3032-3040	4.1	6
20	Preparation of Oil-in-Seawater Emulsions Based on Environmentally Benign Nanoparticles and Biosurfactant for Oil Spill Remediation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2686-2693	8.3	32
19	Characterization of crude oil degrading microbial cultures isolated in Qingdao China. <i>RSC Advances</i> , <b>2015</b> , 5, 97665-97674	3.7	8
18	Biodegradation for hydrolyzed polyacrylamide in the anaerobic baffled reactor combined aeration tank. <i>Ecological Engineering</i> , <b>2015</b> , 84, 121-127	3.9	41
17	The physical/biological processes of petroleum hydrocarbons in seawater/sediments after an oil spill. <i>RSC Advances</i> , <b>2015</b> , 5, 98990-98998	3.7	3
16	Automatic integration method for single and multiple peaks in the GC and GC-MS chromatograms of characteristic oil compounds. <i>Analytical Methods</i> , <b>2015</b> , 7, 2670-2679	3.2	1
15	Biodegradation of different petroleum hydrocarbons by free and immobilized microbial consortia. <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 2022-33	4.3	39
14	Effect of rhamnolipid biosurfactant on solubilization of polycyclic aromatic hydrocarbons. <i>Marine Pollution Bulletin</i> , <b>2015</b> , 101, 219-225	6.7	52

13	Treatment of partially hydrolyzed polyacrylamide wastewater by combined Fenton oxidation and anaerobic biological processes. <i>Chemical Engineering Journal</i> , <b>2015</b> , 273, 1-6	14.7	63
12	Biodegradation of marine surface floating crude oil in a large-scale field simulated experiment. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 1948-56	4.3	6
11	Lipopeptide biosurfactant production bacteria <i>Acinetobacter</i> sp. D3-2 and its biodegradation of crude oil. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 897-903	4.3	34
10	Micelle-vesicle transitions in cationic mixtures of SDS/DTAB induced by salt, temperature, and selective solvents: a dissipative particle dynamics simulation study. <i>Colloid and Polymer Science</i> , <b>2014</b> , 292, 2349-2360	2.4	21
9	Removal efficiency of heavy oil by free and immobilised microorganisms on laboratory-scale. <i>Canadian Journal of Chemical Engineering</i> , <b>2013</b> , 91, 1-8	2.3	12
8	Dissipative particle dynamics simulation on the properties of the oil/water/surfactant system in the absence and presence of polymer. <i>Molecular Simulation</i> , <b>2013</b> , 39, 299-308	2	21
7	Study on bioadsorption and biodegradation of petroleum hydrocarbons by a microbial consortium. <i>Bioresource Technology</i> , <b>2013</b> , 149, 22-30	11	60
6	Rhamnolipids enhance marine oil spill bioremediation in laboratory system. <i>Marine Pollution Bulletin</i> , <b>2013</b> , 71, 269-75	6.7	59
5	Aggregation Behavior of Surfactants with Different Molecular Structures in Aqueous Solution: DPD Simulation Study. <i>Journal of Dispersion Science and Technology</i> , <b>2012</b> , 33, 1437-1443	1.5	14
4	Study and Application on the Oil-Film Method Used for Reservoir Protection Drilling and Completion Fluid Systems. <i>Journal of Dispersion Science and Technology</i> , <b>2010</b> , 31, 1273-1277	1.5	5
3	Biodegradation of partially hydrolyzed polyacrylamide by bacteria isolated from production water after polymer flooding in an oil field. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 184, 105-110	12.8	111
2	Fingerprinting and source identification of an oil spill in China Bohai Sea by gas chromatography-flame ionization detection and gas chromatography-mass spectrometry coupled with multi-statistical analyses. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 830-6	4.5	38
1	Contrasting vertical distribution between prokaryotes and fungi in different water masses on the Ninety-East Ridge, Southern Indian Ocean. <i>Journal of Oceanology and Limnology</i> , 1	1.5	