

Gang Chen

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.

99
papers

1,899
citations

22
h-index

41
g-index

107
ext. papers

2,261
ext. citations

4.4
avg, IF

5.46
L-index

#	Paper	IF	Citations
99	A mechanical investigation of perfluorooctane acid adsorption by engineered biochar. <i>Journal of Cleaner Production</i> , 2022 , 340, 130742	10.3	2
98	Neutrally charged nanosilver antimicrobial effects: A surface thermodynamic perspective.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 212, 112390	6	1
97	Water Accounting and Productivity Analysis to Improve Water Savings of Nile River Basin, East Africa: From Accountability to Sustainability. <i>Agronomy</i> , 2022 , 12, 818	3.6	1
96	Nitrate source apportionment and risk assessment: A study in the largest ion-adsorption rare earth mine in China.. <i>Environmental Pollution</i> , 2022 , 302, 119052	9.3	0
95	Soil Salinity Variations and Associated Implications for Agriculture and Land Resources Development Using Remote Sensing Datasets in Central Asia. <i>Remote Sensing</i> , 2022 , 14, 2501	5	0
94	Effect of solution chemistry on the transport of short-chain and long-chain perfluoroalkyl carboxylic acids (PFCAs) in saturated porous media. <i>Chemosphere</i> , 2022 , 303, 135160	8.4	0
93	Water quality deterioration near culverts within the Apalachicola National Forest. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	1
92	DefineInvestigateEstimateMap (DIEM) Framework for Modeling Habitat Threats. <i>Sustainability</i> , 2021 , 13, 11259	3.6	0
91	Agricultural Greenhouse Gas Emissions in a Data-Scarce Region Using a Scenario-Based Modeling Approach: A Case Study in Southeastern USA. <i>Agronomy</i> , 2021 , 11, 1323	3.6	1
90	Synthesis of microwave-mediated biochar-hydrogel composites for enhanced water absorbency and nitrogen release. <i>Polymer Testing</i> , 2021 , 93, 106996	4.5	7
89	Comparing Physicochemical Properties and Sorption Behaviors of Pyrolysis-Derived and Microwave-Mediated Biochar. <i>Sustainability</i> , 2021 , 13, 2359	3.6	2
88	Limiting factors of heavy metals removal during anaerobic biological pretreatment of municipal solid waste landfill leachate. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126081	12.8	3
87	A GIS-based framework for local agricultural decision-making and regional crop yield simulation. <i>Agricultural Systems</i> , 2021 , 193, 103213	6.1	1
86	Reduction and bacterial adsorption of dissolved mercuric ion by indigenous bacteria at the Oak Ridge Reservation site. <i>Chemosphere</i> , 2021 , 280, 130629	8.4	1
85	Investigating promising substrates for promoting 1,4-dioxane biodegradation: effects of ethane and tetrahydrofuran on microbial consortia. <i>Biodegradation</i> , 2020 , 31, 171-182	4.1	6
84	Sustainable landfill leachate treatment. <i>Waste Management and Research</i> , 2020 , 38, 1093-1100	4	4
83	Speciation and conversion of carbon and nitrogen in young landfill leachate during anaerobic biological pretreatment. <i>Waste Management</i> , 2020 , 106, 88-98	8.6	7

82 Adhesion of Colloids and Bacteria to Porous Media **2020**, 417-459

81 Effectiveness of dicyandiamide as a nitrification inhibitor in biochar-amended soil. *Pedosphere*, **2020**, 30, 352-362 5 3

80 Agricultural waste-derived superabsorbent hydrogels: Preparation, performance, and socioeconomic impacts. *Journal of Cleaner Production*, **2020**, 251, 119669 10.3 49

79 Impact of Humic Acids on Phosphorus Retention and Transport. *Journal of Soil Science and Plant Nutrition*, **2020**, 20, 2431-2439 3.2 1

78 Evaluating Water Balance Variables under Land Use and Climate Projections in the Upper Choctawhatchee River Watershed, in Southeast US. *Water (Switzerland)*, **2020**, 12, 2205 3 3

77 Contemporary strategies for enhancing nitrogen retention and mitigating nitrous oxide emission in agricultural soils: present and future. *Environment, Development and Sustainability*, **2020**, 22, 2703-2741 4.5 11

76 Cadmium-Bacteria Complexation and Subsequent Bacteria-Facilitated Cadmium Transport in Saturated Porous Media. *Journal of Environmental Quality*, **2019**, 48, 1524-1533 3.4 4

75 Bacterial-facilitated uranium transport in the presence of phytate at Savannah River Site. *Chemosphere*, **2019**, 223, 351-357 8.4 7

74 Microbial Community Analysis Provides Insights into the Effects of Tetrahydrofuran on 1,4-Dioxane Biodegradation. *Applied and Environmental Microbiology*, **2019**, 85, 4.8 11

73 Microwave-induced heavy metal removal from dewatered biosolids for cost-effective composting. *Journal of Cleaner Production*, **2019**, 241, 118342 10.3 13

72 Predicting biochar properties and functions based on feedstock and pyrolysis temperature: A review and data syntheses. *Journal of Cleaner Production*, **2019**, 215, 890-902 10.3 130

71 Energy Recovery and Nitrogen Management from Struvite Precipitation Effluent via Microbial Fuel Cells. *Journal of Environmental Engineering, ASCE*, **2019**, 145, 04018145 2 8

70 Nitrogen retention of biochar derived from different feedstocks at variable pyrolysis temperatures. *Journal of Analytical and Applied Pyrolysis*, **2018**, 133, 136-146 6 93

69 Public health risk of trace metals in fresh chicken meat products on the food markets of a major production region in southern China. *Environmental Pollution*, **2018**, 234, 667-676 9.3 29

68 Thermogravimetric, thermochemical, and infrared spectral characterization of feedstocks and biochar derived at different pyrolysis temperatures. *Waste Management*, **2018**, 78, 198-207 8.6 76

67 Using hydrogel-biochar composites for enhanced cadmium removal from aqueous media. *Material Science & Engineering International Journal*, **2018**, 2, 1.4 3

66 Effects of evolving quality of landfill leachate on microbial fuel cell performance. *Waste Management and Research*, **2018**, 36, 59-67 4 9

65 Applications of Emerging Bioelectrochemical Technologies in Agricultural Systems: A Current Review. *Energies*, **2018**, 11, 2951 3.1 10

64	Chemical-Free Recovery of Elemental Selenium from Selenate-Contaminated Water by a System Combining a Biological Reactor, a Bacterium-Nanoparticle Separator, and a Tangential Flow Filter. <i>Environmental Science & Technology</i> , 2018 , 52, 13231-13238	10.3	6
63	Factors Affecting the Effectiveness of Bioelectrochemical System Applications: Data Synthesis and Meta-Analysis. <i>Batteries</i> , 2018 , 4, 34	5.7	34
62	Towards selenium recovery: Biocathode induced selenate reduction to extracellular elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2018 , 351, 1095-1103	14.7	18
61	E. coli interactions, adhesion and transport in alumino-silica clays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 154, 82-88	6	7
60	Cry1Ab Adsorption and Transport in Humic Acid-Coated Geological Formation of Alumino-Silica Clays. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	7
59	Electropolishing of surfaces: theory and applications. <i>Surface Engineering</i> , 2017 , 33, 149-166	2.6	51
58	Landfill Leachate Treatment by Electrocoagulation and Fiber Filtration. <i>Water Environment Research</i> , 2017 , 89, 2015-2020	2.8	15
57	Bacterial interactions and transport in geological formation of alumino-silica clays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 45-50	6	13
56	Nitrous oxide emission from agricultural soils. <i>International Journal of Global Warming</i> , 2015 , 7, 62	0.6	0
55	Rhamnolipid Transport in Biochar-Amended Agricultural Soil. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	8
54	Correlation of water quality indicators for coastal marshes. <i>International Journal of Water</i> , 2015 , 9, 263	0.9	
53	Ammonia removal from landfill leachate by struvite precipitation/coated silica sand filtration. <i>International Journal of Environment and Waste Management</i> , 2015 , 15, 201	0.9	0
52	Role of Bacterial Adhesion in Their Subsurface Deposition and Transport: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2015 , 3, 216-252	2.4	9
51	Rhamnolipid surface thermodynamic properties and transport in agricultural soil. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 115, 317-22	6	21
50	Escherichia coli growth and transport in the presence of nanosilver under variable growth conditions. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 2306-13	2.6	6
49	Power generation and nitrogen removal of landfill leachate using microbial fuel cell technology. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2727-36	2.6	28
48	S. typhimurium and E. coli O157:H7 retention and transport in agricultural soil during irrigation practices. <i>European Journal of Soil Science</i> , 2012 , 63, 239-248	3.4	7
47	Soil and microbial characterisation and microbial-mediated iron release nearby landfills in Northwest Florida, USA. <i>International Journal of Environment and Waste Management</i> , 2012 , 10, 56	0.9	1

46	E. coli O157:H7 Desorption by Rhamnolipid Biosurfactant in Water-Unsaturated Porous Media. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 1803-1818	2	3
45	Microbial Biofouling: A Mechanistic Investigation. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 2155-2168	2	11
44	Nonionic Surfactant Behavior in Ionic Liquids. <i>E-Journal of Surface Science and Nanotechnology</i> , 2011 , 9, 390-394	0.7	1
43	COLLOID RELEASE AND TRANSPORT IN AGRICULTURAL SOIL AS IMPACTED BY SOLUTION CHEMISTRY. <i>Journal of Urban and Environmental Engineering</i> , 2011 , 5, 84-90	1.5	9
42	Municipal wastewater phosphorus removal by coagulation. <i>Environmental Technology (United Kingdom)</i> , 2010 , 31, 601-9	2.6	38
41	Bacterial deposition in unsaturated porous media as related to surface properties. <i>International Journal of Environment and Pollution</i> , 2010 , 40, 363	0.7	4
40	Bacillus anthracis and Bacillus subtilis spore surface properties and transport. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 512-8	6	45
39	Colloid Retention in Unsaturated Porous Media as Impacted by Colloid Size. <i>Particulate Science and Technology</i> , 2009 , 27, 35-49	2	5
38	Role of Interfacial Interactions in the Deposition of Colloidal Clay Particles in Porous Media. <i>Journal of Adhesion Science and Technology</i> , 2009 , 23, 1845-1859	2	2
37	An environmental perspective of nitrogen cycle. <i>International Journal of Global Environmental Issues</i> , 2009 , 9, 199	0.8	1
36	Impact of flow rate, water content, and capillary forces on in situ colloid mobilization during infiltration in unsaturated sediments. <i>Water Resources Research</i> , 2008 , 44,	5.4	93
35	Impact of lux gene insertion on bacterial surface properties and transport. <i>Research in Microbiology</i> , 2008 , 159, 145-51	4	1
34	Modeling Bacterial Adhesion and Transport in the Environment: Surface Free Energy Relationships in Interpreting Bacterial Deposition in Porous Media. <i>ACS Symposium Series</i> , 2008 , 245-260	0.4	3
33	Impact of Lipopolysaccharide Extraction on Bacterial Adhesion and Transport. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 1073-1088	2	
32	Bacterial interactions and transport in unsaturated porous media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 67, 265-71	6	15
31	Impact of surface charge density on colloid deposition in unsaturated porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 302, 342-348	5.1	7
30	Application of composted sewage sludge (CSS) as a soil amendment for turfgrass growth. <i>Ecological Engineering</i> , 2007 , 29, 96-104	3.9	100
29	Pretreatment of wastewater from triazine manufacturing by coagulation, electrolysis, and internal microelectrolysis. <i>Journal of Hazardous Materials</i> , 2007 , 146, 385-92	12.8	157

28	Bacterial Retention in Lipopolysaccharide Coated Silica Sand. <i>Separation Science and Technology</i> , 2007 , 42, 1031-1047	2.5	4
27	Determination of Microbial Sorption Isotherms from Column Experiments. <i>Separation Science and Technology</i> , 2006 , 41, 3639-3654	2.5	
26	Colloid-facilitated transport of cesium in variably saturated Hanford sediments. <i>Environmental Science & Technology</i> , 2005 , 39, 3435-42	10.3	61
25	Sorption and Transport of Naphthalene and Phenanthrene in Silica Sand in the Presence of Rhamnolipid Biosurfactant. <i>Separation Science and Technology</i> , 2005 , 40, 2411-2425	2.5	6
24	Retention of mineral colloids in unsaturated porous media as related to their surface properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 256, 207-216	5.1	79
23	lux-marked <i>Pseudomonas aeruginosa</i> lipopolysaccharide production in the presence of rhamnolipid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 41, 43-8	6	12
22	Bacterial adhesion to silica sand as related to Gibbs energy variations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 44, 41-8	6	44
21	Lindane adsorption isotherms interpreted in terms of interaction free energies with porous media. <i>Journal of Adhesion Science and Technology</i> , 2005 , 19, 579-593	2	2
20	Lindane Affinity to Silica Sand as Related to Surface Properties. <i>Separation Science and Technology</i> , 2005 , 40, 1277-1291	2.5	4
19	Rhamnolipid biosurfactant behavior in solutions. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 229-35	3.5	10
18	Cesium migration in saturated silica sand and Hanford sediments as impacted by ionic strength. <i>Journal of Contaminant Hydrology</i> , 2004 , 71, 111-26	3.9	41
17	Reductive dehalogenation of tetrachloroethylene by microorganisms: current knowledge and application strategies. <i>Applied Microbiology and Biotechnology</i> , 2004 , 63, 373-7	5.7	20
16	Impact of lipopolysaccharide coating on clay particle wettability. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004 , 35, 143-7	6	2
15	Bacterial deposition in porous medium as impacted by solution chemistry. <i>Research in Microbiology</i> , 2004 , 155, 467-74	4	22
14	Bacterial desorption in water-saturated porous media in the presence of rhamnolipid biosurfactant. <i>Research in Microbiology</i> , 2004 , 155, 655-61	4	21
13	Microbial Deposition in Porous Media: A Surface Thermodynamic Investigation. <i>Environmental Engineering Science</i> , 2003 , 20, 237-248	2	16
12	Interaction decay of nonionic surfactants at water surfaces. <i>Chemical Physics Letters</i> , 2003 , 376, 758-760	2.5	2
11	Microbial surface thermodynamics and interactions in aqueous media. <i>Journal of Colloid and Interface Science</i> , 2003 , 261, 283-90	9.3	24

10	Impact of carbon and nitrogen conditions on E. coli surface thermodynamics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 28, 135-146	6	21
9	Escherichia coli adhesion to abiotic surfaces in the presence of non-ionic surfactants. <i>Journal of Adhesion Science and Technology</i> , 2003 , 17, 2131-2139	2	3
8	Equilibrium and kinetic adsorption of bacteria on alluvial sand and surface thermodynamic interpretation. <i>Research in Microbiology</i> , 2003 , 154, 175-81	4	14
7	Microbial surface thermodynamics and applications. <i>Research in Microbiology</i> , 2003 , 154, 329-35	4	79
6	Soil microbial activities and carbon and nitrogen fixation. <i>Research in Microbiology</i> , 2003 , 154, 393-8	4	62
5	Surface Free Energy Relationships used to Evaluate Microbial Transport. <i>Journal of Environmental Engineering, ASCE</i> , 2002 , 128, 408-415	2	13
4	Impact of surface thermodynamics on bacterial transport. <i>Environmental Microbiology</i> , 2001 , 3, 237-45	5.2	62
3	Naphthalene, phenanthrene and surfactant biodegradation. <i>Biodegradation</i> , 2001 , 12, 433-42	4.1	36
2	Impact of Bacterial Extracellular Polymers on Lindane Transport. <i>Environmental Engineering Science</i> , 2001 , 18, 191-203	2	7
1	CHLORIDE REMOVAL FROM LANDFILL LEACHATE BY THE ULTRA-HIGH LIME WITH ALUMINUM PROCESS. <i>Journal of Urban and Environmental Engineering</i> , 3-8	1.5	6