

# Liang Cheng

## 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.

59  
papers

1,775  
citations

20  
h-index

41  
g-index

62  
ext. papers

2,496  
ext. citations

5.2  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
59	Countermeasures for local scour at offshore wind turbine monopile foundations: A review. <i>Water Science and Engineering</i> , <b>2022</b> , 15, 15-15	4	2
58	Effect of microbially induced calcite precipitation treatment on the bonding properties of steel fiber in ultra-high performance concrete. <i>Journal of Building Engineering</i> , <b>2022</b> , 50, 104132	5.2	7
57	Recent advances in the fabrication of 2D metal oxides.. <i>IScience</i> , <b>2022</b> , 25, 103598	6.1	8
56	Construction of Water Pond Using Bioslurry-Induced Biocementation. <i>Journal of Materials in Civil Engineering</i> , <b>2022</b> , 34,	3	2
55	Efficient persistent organic pollutant removal in water using MIL-metal-organic framework driven Fenton-like reactions: A critical review. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134182	14.7	2
54	Sustained and enhanced anaerobic removal of COD and nitrogen in a zeolite amended glycogen accumulating organism dominated biofilm process. <i>Science of the Total Environment</i> , <b>2022</b> , 807, 150602	10.2	1
53	Preparation and Characterization of Multi-Doped Porous Carbon Nanofibers from Carbonization in Different Atmospheres and Their Oxygen Electrocatalytic Properties Research.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	1
52	Coupling effect of biocementation-fiber reinforcement on mechanical behavior of calcareous sand for ocean engineering. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2022</b> , 81, 1	4	0
51	Mechanical Behavior and Microstructural Study of Biocemented Sand under Various Treatment Methods. <i>Geofluids</i> , <b>2022</b> , 2022, 1-11	1.5	0
50	Mitigation of alkali-silica reaction by microbially induced CaCO <sub>3</sub> protective layer on aggregates. <i>Construction and Building Materials</i> , <b>2022</b> , 328, 127065	6.7	0
49	Electrochemistry of newly isolated Gram-positive bacteria <i>Paenibacillus lautus</i> with starch as sole carbon source. <i>Electrochimica Acta</i> , <b>2022</b> , 411, 140068	6.7	1
48	Utilization of carbide sludge and urine for sustainable biocement production. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107443	6.8	1
47	Impact of biosurfactant and iron nanoparticles on biodegradation of polyaromatic hydrocarbons (PAHs).. <i>Environmental Pollution</i> , <b>2022</b> , 119384	9.3	2
46	Microbial Surfactants are Next-Generation Biomolecules for Sustainable Remediation of Polyaromatic Hydrocarbons <b>2021</b> , 139-158		4
45	Biocarbonation of reactive magnesia for soil improvement. <i>Acta Geotechnica</i> , <b>2021</b> , 16, 1113-1125	4.9	7
44	Dynamically controlling the electrode potential of a microbial fuel cell-powered biocathode for sensitive quantification of nitrate. <i>Electrochimica Acta</i> , <b>2021</b> , 369, 137661	6.7	7
43	Adsorption of organic compounds from aqueous solution by pyridine-2-carboxaldehyde grafted MIL-101(Cr)-NH <sub>2</sub> metal-organic frameworks. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105275	6.8	11

42	Experimental and Analytical Study on Geomechanical Behavior of Biocemented Sand. <i>International Journal of Geomechanics</i> , <b>2021</b> , 21, 04021126	3.1	5
41	Bio-Cementation for Improving Soil Thermal Conductivity. <i>Sustainability</i> , <b>2021</b> , 13, 10238	3.6	2
40	Ca-mediated alleviation of Cd <sup>2+</sup> induced toxicity and improved Cd <sup>2+</sup> biomineralization by <i>Sporosarcina pasteurii</i> . <i>Science of the Total Environment</i> , <b>2021</b> , 787, 147627	10.2	10
39	Enhanced biodegradation of hydrophobic organic pollutants by the bacterial consortium: Impact of enzymes and biosurfactants. <i>Environmental Pollution</i> , <b>2021</b> , 289, 117956	9.3	14
38	DNA-Modified Electrochemiluminescent Tris(4,4'-Dicarboxylicacid-2,2'-Bipyridyl)Ruthenium(II) Dichloride and Assistant DNA-Modified Carbon Nitride Quantum Dots for Hg <sup>2+</sup> Detection. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 1009-1018	5.6	11
37	High-strength wastewater treatment using microbial biofilm reactor: a critical review. <i>World Journal of Microbiology and Biotechnology</i> , <b>2020</b> , 36, 75	4.4	17
36	Method of Hybrid Adaptive Sampling for the Kriging Metamodel and Application in the Hydropurification Process of Industrial Terephthalic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 19345-19360	3.9	
35	Restraint of Particle Breakage by Biotreatment Method. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2020</b> , 146, 04020123	3.4	54
34	A new biogrouting method for fine to coarse sand. <i>Acta Geotechnica</i> , <b>2020</b> , 15, 1-16	4.9	41
33	Microbially induced calcite precipitation for production of Bio-bricks treated at partial saturation condition. <i>Construction and Building Materials</i> , <b>2020</b> , 231, 117095	6.7	23
32	Biocementation of soil using non-sterile enriched urease-producing bacteria from activated sludge. <i>Journal of Cleaner Production</i> , <b>2020</b> , 262, 121315	10.3	25
31	Effect of Particle Shape on Strength and Stiffness of Biocemented Glass Beads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2019</b> , 145, 06019016	3.4	62
30	Microstructural and Geomechanical Study on Biocemented Sand for Optimization of MICP Process. <i>Journal of Materials in Civil Engineering</i> , <b>2019</b> , 31, 04019025	3	48
29	Energy efficient COD and N-removal from high-strength wastewater by a passively aerated GAO dominated biofilm. <i>Bioresource Technology</i> , <b>2019</b> , 283, 148-158	11	16
28	Seepage control in sand using bioslurry. <i>Construction and Building Materials</i> , <b>2019</b> , 212, 342-349	6.7	20
27	Biogrouting of Aggregates Using Premixed Injection Method with or without pH Adjustment. <i>Journal of Materials in Civil Engineering</i> , <b>2019</b> , 31, 06019008	3	17
26	Microbially Induced Calcite Precipitation (MICP) for Soil Stabilization. <i>Ecowise</i> , <b>2019</b> , 47-68	0.7	8
25	Soil bio-cementation using a new one-phase low-pH injection method. <i>Acta Geotechnica</i> , <b>2019</b> , 14, 615-626	6.6	63

24	Microbially induced calcite precipitation along a circular flow channel under a constant flow condition. <i>Acta Geotechnica</i> , <b>2019</b> , 14, 673-683	4.9	30
23	Honors Lecture: Biological Cementation of Unstable Soils and Grounds for Civil Infrastructure Developments. <i>Sustainable Civil Infrastructures</i> , <b>2019</b> , 1-9	0.2	
22	In-situ microbially induced Ca -alginate polymeric sealant for seepage control in porous materials. <i>Microbial Biotechnology</i> , <b>2019</b> , 12, 324-333	6.3	12
21	Enhancing fiber/matrix bonding in polypropylene fiber reinforced cementitious composites by microbially induced calcite precipitation pre-treatment. <i>Cement and Concrete Composites</i> , <b>2018</b> , 88, 1-7	8.6	35
20	Proof of concept of wastewater treatment via passive aeration SND using a novel zeolite amended biofilm reactor. <i>Water Science and Technology</i> , <b>2018</b> , 78, 2204-2213	2.2	7
19	Surface Percolation for Soil Improvement by Biocementation Utilizing In Situ Enriched Indigenous Aerobic and Anaerobic Ureolytic Soil Microorganisms. <i>Geomicrobiology Journal</i> , <b>2017</b> , 34, 546-556	2.5	27
18	Influence of Key Environmental Conditions on Microbially Induced Cementation for Soil Stabilization. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2017</b> , 143, 04016083	3.4	129
17	State-of-the-Art Review of Biocementation by Microbially Induced Calcite Precipitation (MICP) for Soil Stabilization. <i>Geomicrobiology Journal</i> , <b>2017</b> , 34, 524-537	2.5	186
16	Automatic online buffer capacity (alkalinity) measurement of wastewater using an electrochemical cell. <i>Environmental Technology (United Kingdom)</i> , <b>2016</b> , 37, 2467-72	2.6	4
15	Plastic Change in the Auditory Minimum Threshold Induced by Intercollicular Effects in Mice. <i>Neural Plasticity</i> , <b>2016</b> , 2016, 4195391	3.3	3
14	Urease active bioslurry: a novel soil improvement approach based on microbially induced carbonate precipitation. <i>Canadian Geotechnical Journal</i> , <b>2016</b> , 53, 1376-1385	3.2	49
13	Microbial fuel cell biosensor for rapid assessment of assimilable organic carbon under marine conditions. <i>Water Research</i> , <b>2015</b> , 77, 64-71	12.5	32
12	In-line deoxygenation for organic carbon detections in seawater using a marine microbial fuel cell-biosensor. <i>Bioresource Technology</i> , <b>2015</b> , 182, 34-40	11	19
11	Upscaling Effects of Soil Improvement by Microbially Induced Calcite Precipitation by Surface Percolation. <i>Geomicrobiology Journal</i> , <b>2014</b> , 31, 396-406	2.5	99
10	Detection of low concentration of assimilable organic carbon in seawater prior to reverse osmosis membrane using microbial electrolysis cell biosensor. <i>Desalination and Water Treatment</i> , <b>2014</b> , 1-6		7
9	Hexacyanoferrate-adapted biofilm enables the development of a microbial fuel cell biosensor to detect trace levels of assimilable organic carbon (AOC) in oxygenated seawater. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 2412-20	4.9	18
8	Environmental stimulation influence the cognition of developing mice by inducing changes in oxidative and apoptosis status. <i>Brain and Development</i> , <b>2014</b> , 36, 51-6	2.2	10
7	Cementation of sand soil by microbially induced calcite precipitation at various degrees of saturation. <i>Canadian Geotechnical Journal</i> , <b>2013</b> , 50, 81-90	3.2	340

6	Selective enrichment and production of highly urease active bacteria by non-sterile (open) chemostat culture. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2013</b> , 40, 1095-104	4.2	48
5	In situ soil cementation with ureolytic bacteria by surface percolation. <i>Ecological Engineering</i> , <b>2012</b> , 42, 64-72	3.9	175
4	Theory of Microbial Carbonate Precipitation and Its Application in Restoration of Cement-based Materials Defects. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 28, 847-857	4.9	46
3	Bio-mediated soil improvement: An introspection into processes, materials, characterization and applications. <i>Soil Use and Management</i> ,	3.1	7
2	In situ biomass flocculation improves placement of <i>Sporosarcina Pasteurii</i> for microbially mediated sandy soil stabilization. <i>Acta Geotechnica</i> ,1	4.9	0
1	Enhancing splitting tensile strength of biocarbonated reactive magnesia-based sand using polypropylene fiber reinforcement. <i>Acta Geotechnica</i> ,1	4.9	