Gang Wang

List of Publications by Year
in descending order

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35	983	516710 16	454955 30
papers	citations	h-index	g-index

36	36	36	1089
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemotactic movement and zeta potential dominate Chlamydomonas microsphaera attachment and biocathode development. Environmental Technology (United Kingdom), 2023, 44, 1838-1849.	2.2	1
2	Different agricultural practices specify bacterial community compositions in the soil rhizosphere and root zone. Soil Ecology Letters, 2022, 4, 18-31.	4.5	6
3	Electrotaxis-mediated cell motility and nutrient availability determine Chlamydomonas microsphaera-surface interactions in bioelectrochemical systems. Bioelectrochemistry, 2022, 143, 107989.	4.6	2
4	Nutrient starvation intensifies chlorine disinfection-stressed biofilm formation. Chemosphere, 2022, 295, 133827.	8.2	7
5	Contrasting effects of straw and biochar on microscale heterogeneity of soil O2 and pH: Implication for N2O emissions. Soil Biology and Biochemistry, 2022, 166, 108564.	8.8	20
6	Nanoparticle-based amelioration of drought stress and cadmium toxicity in rice via triggering the stress responsive genetic mechanisms and nutrient acquisition. Ecotoxicology and Environmental Safety, 2021, 209, 111829.	6.0	98
7	Implication of O2 dynamics for both N2O and CH4 emissions from soil during biological soil disinfestation. Scientific Reports, 2021, 11, 6590.	3.3	4
8	Iron oxide nanoparticles ameliorated the cadmium and salinity stresses in wheat plants, facilitating photosynthetic pigments and restricting cadmium uptake. Science of the Total Environment, 2021, 769, 145221.	8.0	122
9	Extracellular polymeric substances induced cell-surface interactions facilitate bacteria transport in saturated porous media. Ecotoxicology and Environmental Safety, 2021, 218, 112291.	6.0	4
10	Phenotypic and genotypic characterization of the new Bacillus cereus phage SWEP1. Archives of Virology, 2021, 166, 3183-3188.	2.1	8
11	Evaporation-induced hydrodynamics promote conjugation-mediated plasmid transfer in microbial populations. ISME Communications, 2021, 1, .	4.2	5
12	Molecular density regulating electron transfer efficiency of S.Âoneidensis MR-1 mediated roxarsone biotransformation. Environmental Pollution, 2020, 262, 114370.	7.5	8
13	Flagellar motility mediates early-stage biofilm formation in oligotrophic aquatic environment. Ecotoxicology and Environmental Safety, 2020, 194, 110340.	6.0	23
14	Motility changes rather than EPS production shape aggregation of Chlamydomonas microsphaera in aquatic environment. Environmental Technology (United Kingdom), 2020, 42, 1-9.	2.2	1
15	Bacterial foraging facilitates aggregation of Chlamydomonas microsphaera in an organic carbon source-limited aquatic environment. Environmental Pollution, 2020, 259, 113924.	7.5	13
16	Effects of myo-inositol hexakisphosphate, ferrihydrite coating, ionic strength and pH on the transport of TiO2 nanoparticles in quartz sand. Environmental Pollution, 2019, 252, 1193-1201.	7.5	11
17	Roxarsone exposure jeopardizes nitrogen removal and regulates bacterial community in biological sequential batch reactors. Ecotoxicology and Environmental Safety, 2018, 159, 232-239.	6.0	19
18	Comprehensive assessment of microbial aggregation characteristics of activated sludge bioreactors using fuzzy clustering analysis. Ecotoxicology and Environmental Safety, 2018, 162, 296-303.	6.0	5

#	Article	IF	Citations
19	Limited carbon source retards inorganic arsenic release during roxarsone degradation in Shewanella oneidensis microbial fuel cells. Applied Microbiology and Biotechnology, 2018, 102, 8093-8106.	3.6	10
20	Impact of Flow Velocity on Transport of Graphene Oxide Nanoparticles in Saturated Porous Media. Vadose Zone Journal, 2018, 17, 180019.	2.2	20
21	Assessing comprehensive performance of biofilm formation and water quality in drinking water distribution systems. Water Science and Technology: Water Supply, 2017, 17, 267-278.	2.1	5
22	Bioavailability of Soil-Sorbed Tetracycline to Escherichia coli under Unsaturated Conditions. Environmental Science & Technology, 2017, 51, 6165-6173.	10.0	41
23	Chlorination-mediated EPS excretion shapes early-stage biofilm formation in drinking water systems. Process Biochemistry, 2017, 55, 41-48.	3.7	24
24	Effect of Surface Properties on Colloid Retention on Natural and Surrogate Produce Surfaces. Journal of Food Science, 2016, 81, E2956-E2965.	3.1	9
25	Shewanella oneidensis MR-1-Induced Fe(III) Reduction Facilitates Roxarsone Transformation. PLoS ONE, 2016, 11, e0154017.	2.5	16
26	Resources availability mediated EPS production regulate microbial cluster formation in activated sludge system. Chemical Engineering Journal, 2015, 279, 129-135.	12.7	27
27	Estimating the Wetâ€End Section of Soil Water Retention Curve by using the Dryâ€End Section. Soil Science Society of America Journal, 2014, 78, 1878-1883.	2.2	6
28	Trophic interactions induce spatial self-organization of microbial consortia on rough surfaces. Scientific Reports, 2014, 4, 6757.	3.3	21
29	Colloid mobilization by fluid displacement fronts in channels. Journal of Colloid and Interface Science, 2013, 406, 44-50.	9.4	58
30	Hydration dynamics promote bacterial coexistence on rough surfaces. ISME Journal, 2013, 7, 395-404.	9.8	76
31	A Hydration-Based Biophysical Index for the Onset of Soil Microbial Coexistence. Scientific Reports, 2012, 2, 881.	3.3	27
32	Aqueous films limit bacterial cell motility and colony expansion on partially saturated rough surfaces. Environmental Microbiology, 2010, 12, 1363-1373.	3.8	79
33	Hydration-controlled bacterial motility and dispersal on surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14369-14372.	7.1	182
34	Aggregate sizes regulate the microbial community patterns in sandy soil profile. Soil Ecology Letters, 0, , 1.	4.5	4
35	Recent Advancements and Development in Nano-Enabled Agriculture for Improving Abiotic Stress Tolerance in Plants. Frontiers in Plant Science, 0, 13, .	3.6	21