Gang Wang

List of Publications by Year
in descending order

35 papers	983 citations	516710 16 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	1089 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Aqueous films limit bacterial cell motility and colony expansion on partially saturated rough surfaces. Environmental Microbiology, 2010, 12, 1363-1373.	3.8	79
5	Hydration dynamics promote bacterial coexistence on rough surfaces. ISME Journal, 2013, 7, 395-404.	9.8	76
6	Colloid mobilization by fluid displacement fronts in channels. Journal of Colloid and Interface Science, 2013, 406, 44-50.	9.4	58
7	Bioavailability of Soil-Sorbed Tetracycline to <i>Escherichia coli</i> under Unsaturated Conditions. Environmental Science & Technology, 2017, 51, 6165-6173.	10.0	41
8	A Hydration-Based Biophysical Index for the Onset of Soil Microbial Coexistence. Scientific Reports, 2012, 2, 881.	3.3	27
9	Resources availability mediated EPS production regulate microbial cluster formation in activated sludge system. Chemical Engineering Journal, 2015, 279, 129-135.	12.7	27
10	Chlorination-mediated EPS excretion shapes early-stage biofilm formation in drinking water systems. Process Biochemistry, 2017, 55, 41-48.	3.7	24
11	Flagellar motility mediates early-stage biofilm formation in oligotrophic aquatic environment. Ecotoxicology and Environmental Safety, 2020, 194, 110340.	6.0	23
12	Trophic interactions induce spatial self-organization of microbial consortia on rough surfaces. Scientific Reports, 2014, 4, 6757.	3.3	21
13	Recent Advancements and Development in Nano-Enabled Agriculture for Improving Abiotic Stress Tolerance in Plants. Frontiers in Plant Science, 0, 13, .	3.6	21
14	Impact of Flow Velocity on Transport of Graphene Oxide Nanoparticles in Saturated Porous Media. Vadose Zone Journal, 2018, 17, 180019.	2.2	20
15	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
16	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
17	Shewanella oneidensis MR-1-Induced Fe(III) Reduction Facilitates Roxarsone Transformation. PLoS ONE, 2016, 11, e0154017.	2.5	16
18	Bacterial foraging facilitates aggregation of Chlamydomonas microsphaera in an organic carbon source-limited aquatic environment. Environmental Pollution, 2020, 259, 113924.	7.5	13

#	Article	IF	Citations
19	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
20	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
21	Effect of Surface Properties on Colloid Retention on Natural and Surrogate Produce Surfaces. Journal of Food Science, 2016, 81, E2956-E2965.	3.1	9
22	Molecular density regulating electron transfer efficiency of S.Âoneidensis MR-1 mediated roxarsone biotransformation. Environmental Pollution, 2020, 262, 114370.	7.5	8
23	Phenotypic and genotypic characterization of the new Bacillus cereus phage SWEP1. Archives of Virology, 2021, 166, 3183-3188.	2.1	8
24	Nutrient starvation intensifies chlorine disinfection-stressed biofilm formation. Chemosphere, 2022, 295, 133827.	8.2	7
25	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
26	Different agricultural practices specify bacterial community compositions in the soil rhizosphere and root zone. Soil Ecology Letters, 2022, 4, 18-31.	4.5	6
27	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
28	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
29	Evaporation-induced hydrodynamics promote conjugation-mediated plasmid transfer in microbial populations. ISME Communications, 2021, 1, .	4.2	5
30	Implication of O2 dynamics for both N2O and CH4 emissions from soil during biological soil disinfestation. Scientific Reports, 2021, 11, 6590.	3.3	4
31	Extracellular polymeric substances induced cell-surface interactions facilitate bacteria transport in saturated porous media. Ecotoxicology and Environmental Safety, 2021, 218, 112291.	6.0	4
32	Aggregate sizes regulate the microbial community patterns in sandy soil profile. Soil Ecology Letters, 0, , 1.	4.5	4
33	Electrotaxis-mediated cell motility and nutrient availability determine Chlamydomonas microsphaera-surface interactions in bioelectrochemical systems. Bioelectrochemistry, 2022, 143, 107989.	4.6	2
34	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
35	Chemotactic movement and zeta potential dominate <i>Chlamydomonas microsphaera</i> attachment and biocathode development. Environmental Technology (United Kingdom), 2023, 44, 1838-1849.	2.2	1