

# Yuanyuan Liu

## List of Publications by Year in descending order

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34  
papers

930  
citations

516215

16  
h-index

454577

30  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sunlight-mediated inactivation of health-relevant microorganisms in water: a review of mechanisms and modeling approaches. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1089-1122.	1.7	180
2	Effect of Water Chemistry and Hydrodynamics on Nitrogen Transformation Activity and Microbial Community Functional Potential in Hyporheic Zone Sediment Columns. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4877-4886.	4.6	79
3	Deposition of <i>Cryptosporidium parvum</i> Oocysts on Natural Organic Matter Surfaces: Microscopic Evidence for Secondary Minimum Deposition in a Radial Stagnation Point Flow Cell. <i>Langmuir</i> , 2009, 25, 1594-1605.	1.6	58
4	Pore-scale investigation on the response of heterotrophic respiration to moisture conditions in heterogeneous soils. <i>Biogeochemistry</i> , 2016, 131, 121-134.	1.7	54
5	Coupled Hydro-Biogeochemical Processes Controlling Cr Reductive Immobilization in Columbia River Hyporheic Zone. <i>Environmental Science &amp; Technology</i> , 2017, 51, 1508-1517.	4.6	44
6	Pharmacodynamic and urinary metabolomics studies on the mechanism of Schisandra polysaccharide in the treatment of Alzheimer's disease. <i>Food and Function</i> , 2019, 10, 432-447.	2.1	43
7	Compositional changes of dissolved organic carbon during its dynamic desorption from hyporheic zone sediments. <i>Science of the Total Environment</i> , 2019, 658, 16-23.	3.9	40
8	Role of Divalent Cations on Deposition of <i>Cryptosporidium parvum</i> Oocysts on Natural Organic Matter Surfaces. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4519-4524.	4.6	34
9	Basic amino acid induced isomerization of a spiropyran: towards visual recognition of basic amino acids in water. <i>New Journal of Chemistry</i> , 2007, 31, 1878.	1.4	32
10	Nitrate bioreduction in redox-variable low permeability sediments. <i>Science of the Total Environment</i> , 2016, 539, 185-195.	3.9	32
11	Pore-Scale Process Coupling and Effective Surface Reaction Rates in Heterogeneous Subsurface Materials. <i>Reviews in Mineralogy and Geochemistry</i> , 2015, 80, 191-216.	2.2	31
12	Model-Based Analysis of the Effects of Dam-Induced River Water and Groundwater Interactions on Hydro-Biogeochemical Transformation of Redox Sensitive Contaminants in a Hyporheic Zone. <i>Water Resources Research</i> , 2018, 54, 5973-5985.	1.7	27
13	Multiscale Investigation on Biofilm Distribution and Its Impact on Macroscopic Biogeochemical Reaction Rates. <i>Water Resources Research</i> , 2017, 53, 8698-8714.	1.7	26
14	Identification of Hydrobiogeochemical Processes Controlling Seasonal Variations in Arsenic Concentrations Within a Riverbank Aquifer at Jiangnan Plain, China. <i>Water Resources Research</i> , 2018, 54, 4294-4308.	1.7	21
15	Composition and Conformation of <i>Cryptosporidium parvum</i> Oocyst Wall Surface Macromolecules and Their Effect on Adhesion Kinetics of Oocysts on Quartz Surface. <i>Biomacromolecules</i> , 2010, 11, 2109-2115.	2.6	18
16	Redox transformation and reductive immobilization of Cr(VI) in the Columbia River hyporheic zone sediments. <i>Journal of Hydrology</i> , 2017, 555, 278-287.	2.3	18
17	Role of Collector Alternating Charged Patches on Transport of <i>Cryptosporidium parvum</i> Oocysts in a Patchwise Charged Heterogeneous Micromodel. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2670-2678.	4.6	17
18	Inactivation mechanisms of <i>cryptosporidium parvum</i> oocysts by solar ultraviolet irradiation. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 188-198.	1.2	17

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19	Pore and continuum scale study of the effect of subgrid transport heterogeneity on redox reaction rates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 163, 140-155.	1.6	16
20	Targeted quantification of functional enzyme dynamics in environmental samples for microbially mediated biogeochemical processes. <i>Environmental Microbiology Reports</i> , 2017, 9, 512-521.	1.0	16
21	Retention of graphene oxide and reduced graphene oxide in porous media: Diffusion-attachment, interception-attachment and straining. <i>Journal of Hazardous Materials</i> , 2022, 431, 128635.	6.5	16
22	Transport of <i>Cryptosporidium parvum</i> Oocysts in a Silicon Micromodel. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1471-1479.	4.6	15
23	<sup>99</sup> Tc(VII) Retardation, Reduction, and Redox Rate Scaling in Naturally Reduced Sediments. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13403-13412.	4.6	15
24	Ammonia gas transport and reactions in unsaturated sediments: Implications for use as an amendment to immobilize inorganic contaminants. <i>Journal of Hazardous Materials</i> , 2015, 289, 118-129.	6.5	13
25	Reversible fluorescence modulation based on photochromic diarylethene and fluorescent coumarin. <i>Journal of Materials Research</i> , 2007, 22, 1558-1563.	1.2	11
26	Deposition of protein-coated multi-walled carbon nanotubes on oxide surfaces and the retention in a silicon micromodel. <i>Journal of Hazardous Materials</i> , 2019, 375, 107-114.	6.5	10
27	Photochromism induced aggregate-monomer interconversion and fluorescence switch of porphyrin with spiropyran. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 884-887.	0.9	9
28	Photocatalytic degradation pathways and adsorption modes of H-acid in TiO <sub>2</sub> suspensions. <i>Science Bulletin</i> , 2012, 57, 1102-1108.	1.7	8
29	Effect of ion exchange on the rate of aerobic microbial oxidation of ammonium in hyporheic zone sediments. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8880-8887.	2.7	7
30	Arsenate Adsorption on Different Fractions of Iron Oxides in the Paddy Soil from the Karst Region of China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 106, 126-133.	1.3	7
31	Recent progress in multi-scale modeling and simulation of flow and solute transport in porous media. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1561.	2.8	7
32	A Generalized-Rate Model for Describing and Scaling Redox Kinetics in Sediments Containing Variable Redox-Reactive Materials. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5268-5276.	4.6	3
33	Modeling hydro-biogeochemical transformation of chromium in hyporheic zone: Effects of spatial and temporal resolutions. <i>Journal of Hydrology</i> , 2019, 579, 124152.	2.3	3
34	6. Pore-Scale Process Coupling and Effective Surface Reaction Rates in Heterogeneous Subsurface Materials. , 2015, , 191-216.		1