Long-Fei Wang

List of Publications by Year
in descending order

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		136740	138251
96	3,788	32	58
papers	citations	h-index	g-index

99	99	99	3694
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roles of extracellular polymeric substances (EPS) in the migration and removal of sulfamethazine in activated sludge system. Water Research, 2013, 47, 5298-5306.	5.3	264
2	Fouling of proton exchange membrane (PEM) deteriorates the performance of microbial fuel cell. Water Research, 2012, 46, 1817-1824.	5.3	254
3	pH Dependence of Structure and Surface Properties of Microbial EPS. Environmental Science & Technology, 2012, 46, 737-744.	4.6	225
4	A Fenton-like process for the enhanced activated sludge dewatering. Chemical Engineering Journal, 2015, 272, 128-134.	6.6	186
5	Impact of Al₂O₃ on the Aggregation and Deposition of Graphene Oxide. Environmental Science & Technology, 2014, 48, 5493-5500.	4.6	144
6	New insights into the vertical distribution and microbial degradation of microplastics in urban river sediments. Water Research, 2021, 188, 116449.	5.3	140
7	Periphytic biofilm: An innovative approach for biodegradation of microplastics. Science of the Total Environment, 2020, 717, 137064.	3.9	129
8	Responses of biofilm microorganisms from moving bed biofilm reactor to antibiotics exposure: Protective role of extracellular polymeric substances. Bioresource Technology, 2018, 254, 268-277.	4.8	113
9	The role of freshwater eutrophication in greenhouse gas emissions: A review. Science of the Total Environment, 2021, 768, 144582.	3.9	109
10	Coagulation Kinetics of Humic Aggregates in Mono- and Di-Valent Electrolyte Solutions. Environmental Science & Technology, 2013, 47, 5042-5049.	4.6	100
11	Probing the roles of Ca2+ and Mg2+ in humic acids-induced ultrafiltration membrane fouling using an integrated approach. Water Research, 2015, 81, 325-332.	5.3	94
12	Copper release from copper nanoparticles in the presence of natural organic matter. Water Research, 2015, 68, 12-23.	5.3	92
13	Determination of vertical and horizontal assemblage drivers of bacterial community in a heavily polluted urban river. Water Research, 2019, 161, 98-107.	5.3	85
14	Vertical distribution and assemblages of microbial communities and their potential effects on sulfur metabolism in a black-odor urban river. Journal of Environmental Management, 2019, 235, 368-376.	3.8	77
15	Enhanced photocatalytic degradation of ciprofloxacin using novel C-dot@Nitrogen deficient g-C3N4: Synergistic effect of nitrogen defects and C-dots. Applied Surface Science, 2019, 465, 450-458.	3.1	70
16	Response of bacterial community in composition and function to the various DOM at river confluences in the urban area. Water Research, 2020, 169, 115293.	5.3	67
17	Visible-light-driven, water-surface-floating antimicrobials developed from graphitic carbon nitride and expanded perlite for water disinfection. Chemosphere, 2018, 208, 84-92.	4.2	64
18	Characterization of dewatering process of activated sludge assisted by cationic surfactants. Biochemical Engineering Journal, 2014, 91, 174-178.	1.8	59

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19	Nitrogen cycling processes and the role of multi-trophic microbiota in dam-induced river-reservoir systems. Water Research, 2021, 206, 117730.	5.3	56
20	Surfactant-mediated settleability and dewaterability of activated sludge. Chemical Engineering Science, 2014, 116, 228-234.	1.9	54
21	Adsorption of ciprofloxacin to functionalized nano-sized polystyrene plastic: Kinetics, thermochemistry and toxicity. Science of the Total Environment, 2021, 750, 142370.	3.9	52
22	Extracellular polymeric substances affect the responses of multi-species biofilms in the presence of sulfamethizole. Environmental Pollution, 2018, 235, 283-292.	3.7	50
23	Bacterial and fungal assemblages and functions associated with biofilms differ between diverse types of plastic debris in a freshwater system. Environmental Research, 2021, 196, 110371.	3.7	50
24	New Insights into Sediment Transport in Interconnected Riverâ€“Lake Systems Through Tracing Microorganisms. Environmental Science & Technology, 2019, 53, 4099-4108.	4.6	47
25	Fluorescence Approach for the Determination of Fluorescent Dissolved Organic Matter. Analytical Chemistry, 2017, 89, 4264-4271.	3.2	45
26	Response of extracellular polymeric substances to thermal treatment in sludge dewatering process. Environmental Pollution, 2017, 231, 1388-1392.	3.7	45
27	Intimately coupled TiO2/g-C3N4 photocatalysts and in-situ cultivated biofilms enhanced nitrate reduction in water. Applied Surface Science, 2020, 503, 144092.	3.1	43
28	Cultivation substrata differentiate the properties of river biofilm EPS and their binding of heavy metals: A spectroscopic insight. Environmental Research, 2020, 182, 109052.	3.7	42
29	Cascade dam impoundments restrain the trophic transfer efficiencies in benthic microbial food web. Water Research, 2020, 170, 115351.	5.3	40
30	Bend-induced sediment redistribution regulates deterministic processes and stimulates microbial nitrogen removal in coarse sediment regions of river. Water Research, 2020, 170, 115315.	5.3	38
31	Sediment-based biochar facilitates highly efficient nitrate removal: Physicochemical properties, biological responses and potential mechanism. Chemical Engineering Journal, 2021, 405, 126645.	6.6	36
32	Pollution gradients shape the co-occurrence networks and interactions of sedimentary bacterial communities in Taihu Lake, a shallow eutrophic lake. Journal of Environmental Management, 2022, 305, 114380.	3.8	36
33	Conformations and molecular interactions of poly-Î³-glutamic acid as a soluble microbial product in aqueous solutions. Scientific Reports, 2017, 7, 12787.	1.6	35
34	Sorption removal of phthalate esters and bisphenols to biofilms from urban river: From macroscopic to microcosmic investigation. Water Research, 2019, 150, 261-270.	5.3	33
35	Microbial community shift via black carbon: Insight into biological nitrogen removal from microbial assemblage and functional patterns. Environmental Research, 2021, 192, 110266.	3.7	33
36	Response of ammonia oxidizing archaea and bacteria to decabromodiphenyl ether and copper contamination in river sediments. Chemosphere, 2018, 191, 858-867.	4.2	31

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37	Hydration interactions and stability of soluble microbial products in aqueous solutions. Water Research, 2013, 47, 5921-5929.	5.3	29
38	Integration of life cycle assessment and statistical analysis to understand the influence of rainfall on WWTPs with combined sewer systems. Journal of Cleaner Production, 2018, 172, 2521-2530.	4.6	28
39	River Chief System (RCS): An experiment on cross-sectoral coordination of watershed governance. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	3.3	28
40	The responses of bacterial community and N2O emission to nitrogen input in lake sediment: Estrogen as a co-pollutant. Environmental Research, 2019, 179, 108769.	3.7	26
41	Enhanced biological nitrogen removal from sediment by graphene derivative-mediated community assembly. Bioresource Technology, 2020, 306, 123187.	4.8	26
42	Light exposure interferes with electroactive biofilm enrichment and reduces extracellular electron transfer efficiency. Water Research, 2021, 188, 116512.	5.3	25
43	Grain size tunes microbial community assembly and nitrogen transformation activity under frequent hyporheic exchange: A column experiment. Water Research, 2020, 182, 116040.	5.3	22
44	How environmental stress leads to alternative microbiota states in a river ecosystem: A new insight into river restoration. Water Research, 2021, 203, 117538.	5.3	21
45	A multi-spectral approach to differentiate the effects of adsorbent pretreatments on the characteristics of NOM and membrane fouling. Water Research, 2016, 98, 56-63.	5.3	20
46	Experimental and theoretical analyses on the impacts of ionic surfactants on sludge properties. Science of the Total Environment, 2018, 633, 198-205.	3.9	20
47	Diagnosis of the unexpected fluorescent contaminants in quantifying dissolved organic matter using excitation-emission matrix fluorescence spectroscopy. Water Research, 2019, 163, 114873.	5.3	19
48	Public Participation of the River Chief System in China: Current Trends, Problems, and Perspectives. Water (Switzerland), 2020, 12, 3496.	1.2	19
49	Spatial configuration of extracellular polymeric substances of Bacillus megaterium TF10 in aqueous solution. Water Research, 2012, 46, 3490-3496.	5.3	18
50	Probing Membrane Fouling via Infrared Attenuated Total Reflection Mapping Coupled with Multivariate Curve Resolution. ChemPhysChem, 2016, 17, 358-363.	1.0	18
51	Improved PVDF membrane performance by doping extracellular polymeric substances of activated sludge. Water Research, 2017, 113, 89-96.	5.3	18
52	Effective flocculation of Microcystis aeruginosa with simultaneous nutrient precipitation from hydrolyzed human urine. Chemosphere, 2018, 193, 472-478.	4.2	18
53	Microstructure, bacterial community and metabolic prediction of multi-species biofilms following exposure to di-(2-ethylhexyl) phthalate (DEHP). Chemosphere, 2019, 237, 124382.	4.2	18
54	Identifying ecological processes driving vertical and horizontal archaeal community assemblages in a contaminated urban river. Chemosphere, 2020, 245, 125615.	4.2	18

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55	Integrating Microbial Community Assembly and Fluid Kinetics to Decouple Nitrogen Dynamics in an Urban Channel Confluence. Environmental Science & Technology, 2020, 54, 11237-11248.	4.6	18
56	The bacterial community structure and N-cycling gene abundance in response to dam construction in a riparian zone. Environmental Research, 2021, 194, 110717.	3.7	18
57	Sertraline inhibits top-down forces (predation) in microbial food web and promotes nitrification in sediment. Environmental Pollution, 2020, 267, 115580.	3.7	16
58	Source identification of phosphorus in the river-lake interconnected system using microbial community fingerprints. Environmental Research, 2020, 186, 109498.	3.7	16
59	Propelling the practical application of the intimate coupling of photocatalysis and biodegradation system: System amelioration, environmental influences and analytical strategies. Chemosphere, 2022, 287, 132196.	4.2	15
60	Full Implementation of the River Chief System in China: Outcome and Weakness. Sustainability, 2020, 12, 3754.	1.6	15
61	Hydrodynamic zones and the influence of microorganisms on nitrogen transformation in the diverging area of branched rivers. Environmental Research, 2022, 208, 112778.	3.7	15
62	Silver nanoparticles and Fe(III) co-regulate microbial community and N2O emission in river sediments. Science of the Total Environment, 2020, 706, 135712.	3.9	14
63	Modification of regenerated cellulose ultrafiltration membranes with multi-walled carbon nanotubes for enhanced antifouling ability: Field test and mechanism study. Science of the Total Environment, 2021, 780, 146657.	3.9	14
64	HAOPs pretreatment to reduce membrane fouling: Foulant identification, removal, and interactions. Journal of Membrane Science, 2016, 515, 219-229.	4.1	13
65	Purification and molecular weight distribution of a key exopolysaccharide component of Bacillus megaterium TF10. Journal of Environmental Sciences, 2018, 63, 9-15.	3.2	12
66	Nitrate addition promotes the nitrogen cycling processes under the co-contaminated tetrabromobisphenol A and copper condition in river sediment. Environmental Pollution, 2019, 251, 659-667.	3.7	12
67	Microbial enhanced corrosion of hydraulic concrete structures under hydrodynamic conditions: Microbial community composition and functional prediction. Construction and Building Materials, 2020, 248, 118609.	3.2	12
68	Multilevel Scattering Center and Deep Feature Fusion Learning Framework for SAR Target Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	12
69	New insights into nitrogen removal potential in urban river by revealing the importance of microbial community succession on suspended particulate matter. Environmental Research, 2022, 204, 112371.	3.7	11
70	Nutrient status of integrated rice-crayfish system impacts the microbial nitrogen-transformation processes in paddy fields and rice yields. Science of the Total Environment, 2022, 836, 155706.	3.9	11
71	Quantitative evaluation of noncovalent interactions between polyphosphate and dissolved humic acids in aqueous conditions. Environmental Pollution, 2015, 207, 123-129.	3.7	10
72	Coupling Genomics and Hydraulic Information to Predict the Nitrogen Dynamics in a Channel Confluence. Environmental Science & Technology, 2021, 55, 4616-4628.	4.6	10

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73	Approaching the binding between Cu(II) and aerobic granules by a modified titration and Âμ-XRF. Frontiers of Environmental Science and Engineering, 2016, 10, 362-367.	3.3	9
74	Unraveling the mechanism of efficient adsorption of riboflavin onto activated biochar derived from algal blooms. Journal of Environmental Management, 2021, 291, 112725.	3.8	9
75	Modelling structure and dynamics of microbial community in aquatic ecosystems: The importance of hydrodynamic processes. Journal of Hydrology, 2022, 605, 127351.	2.3	9
76	Understanding the ecological processes governing hydrophyte-associated bacterial communities involved in hydrophyte growth and development. Journal of Environmental Management, 2022, 312, 114952.	3.8	8
77	Hydrodynamic Conditions Influence Bacterial Growth and Phenol Biodegradation of Strains with Different Morphology and Motility. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	7
78	Identifying key environmental factors for enhancing the pollutant removal potential at a river confluence. Environmental Research, 2020, 180, 108880.	3.7	7
79	Assessing the effects of cascade dams on river ecological status using multi-species interaction-based index of biotic integrity (Mt-IBI). Journal of Environmental Management, 2021, 299, 113585.	3.8	7
80	Effects of long-term exposure to silver nanoparticles on the structure and function of microplastic biofilms in eutrophic water. Environmental Research, 2022, 207, 112182.	3.7	7
81	New insights into identifying sediment phosphorus sources in river-lake coupled system: A framework for optimizing microbial community fingerprints. Environmental Research, 2022, 209, 112854.	3.7	7
82	Pelagic-benthic coupling of the microbial food web modifies nutrient cycles along a cascade-dammed river. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	6
83	Effects of nitrogen on the longitudinal and vertical patterns of the composition and potential function of bacterial and archaeal communities in the tidal mudflats. Science of the Total Environment, 2022, 806, 151210.	3.9	6
84	Determining the effect of sertraline on nitrogen transformation through the microbial food web in sediments based on 15N-DNA-stable isotope probing. Environmental Research, 2021, 199, 111347.	3.7	5
85	Composition, Distribution, and Assembly Patterns of Eukaryotic Communities Under Vertical Geochemical Gradients in a Polluted Urban River. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	4
86	Benthic Biofilm Bacterial Communities and Their Linkage with Water-Soluble Organic Matter in Effluent Receivers. International Journal of Environmental Research and Public Health, 2022, 19, 1994.	1.2	4
87	Determination of the direct and indirect effects of bend on the urban river ecological heterogeneity. Environmental Research, 2021, , 112166.	3.7	3
88	Predicting bend-induced heterogeneity in sediment microbial communities by integrating bacteria-based index of biotic integrity and supervised learning algorithms. Journal of Environmental Management, 2022, 304, 114267.	3.8	3
89	Interaction type of tetrabromobisphenol A and copper manipulates ammonia-oxidizing archaea and bacteria communities in co-contaminated river sediments. Environmental Pollution, 2020, 264, 114671.	3.7	2
90	Insights into microbial actions on hydraulic concrete structures: Effects of concrete alkalinity on bacterial community composition and functional expression. Construction and Building Materials, 2021, 280, 122518.	3.2	2

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91	Effects of black carbon-based thin-layer capping for nitrogen-overloaded sediment remediation on microbial community assembly. Science of the Total Environment, 2021, 788, 147888.	3.9	2
92	Bacterial contribution to 17Î²-estradiol mineralization in lake sediment as revealed by 13C-DNA stable isotope probing. Environmental Pollution, 2021, 286, 117505.	3.7	2
93	Current state and solution proposal for plateau wastewater treatment plants: a review. , 0, 155, 120-133.		2
94	Depth induced assembly discrepancy of multitrophic microbial communities affect microbial nitrogen transformation processes in river cross-sections. Environmental Research, 2022, 214, 113913.	3.7	2
95	Pretreatments to control low-pressure membrane fouling: a review on the coagulant/adsorbent applied and contact modes with the feed. , 0, 102, 16-37.		1
96	pH Dependence of Configurations and Surface Properties of Microbial Extracellular Polymeric Substances (EPS). , 2013, , 905-909.		0