

Kewei Liao

List of Publications by Year in descending order

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papers

3,765
citations

117625

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79
docs citations

79
times ranked

3692
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence and removal of progestogens from wastewater treatment plants in China: Spatiotemporal variation and process comparison. <i>Water Research</i> , 2022, 211, 118038.	11.3	11
2	Effects of DOM characteristics from real wastewater on the degradation of pharmaceutically active compounds by the UV/H ₂ O ₂ process. <i>Journal of Environmental Sciences</i> , 2022, 116, 220-228.	6.1	2
3	High concentrations of dissolved organic nitrogen and N-nitrosodimethylamine precursors in effluent from biological nutrient removal process with low dissolved oxygen conditions. <i>Water Research</i> , 2022, 216, 118336.	11.3	21
4	<scp>AHL</scp> â€pred: a novel sequenceâ€based predictor of acylâ€homoserineâ€lactone synthases using machine learning algorithms. <i>Environmental Microbiology Reports</i> , 2022, , .	2.4	1
5	Spatiotemporal variation and removal of selected endocrine-disrupting chemicals in wastewater treatment plants across China: Treatment process comparison. <i>Science of the Total Environment</i> , 2022, 835, 155374.	8.0	2
6	Regulation of exogenous acyl homoserine lactones on sludge settling performance: Monitoring via ultrasonic time-domain reflectometry. <i>Chemosphere</i> , 2022, 303, 135019.	8.2	3
7	A metabolomic view of how the anaerobic side-stream reactors achieves in-situ sludge reduction. <i>Journal of Cleaner Production</i> , 2022, 368, 132990.	9.3	8
8	A review of the application of machine learning in water quality evaluation. , 2022, 1, 107-116.		145
9	Synergistic Adsorbent Sequence for Dissolved Organic Nitrogen Fractional Removal from Biotreated Pharmaceutical Wastewater. <i>ACS ES&T Water</i> , 2021, 1, 991-1001.	4.6	1
10	Microscopic analysis towards rhamnolipid-mediated adhesion of <i>Thiobacillus denitrificans</i> : A QCM-D study. <i>Chemosphere</i> , 2021, 271, 129539.	8.2	6
11	Bacterial assembly and succession in the start-up phase of an IFAS metacommunity: The role of AHL-driven quorum sensing. <i>Science of the Total Environment</i> , 2021, 777, 145870.	8.0	15
12	In-situ sludge reduction performance and mechanism in an anoxic/aerobic process coupled with alternating aerobic/anaerobic side-stream reactor. <i>Science of the Total Environment</i> , 2021, 777, 145856.	8.0	19
13	Compositional characteristics of dissolved organic matter in pharmaceutical wastewater effluent during ozonation. <i>Science of the Total Environment</i> , 2021, 778, 146278.	8.0	18
14	Effect of Influent Carbon-to-Nitrogen Ratios on the Production and Bioavailability of Microorganism-Derived Dissolved Organic Nitrogen (mDON) in Activated Sludge Systems. <i>ACS ES&T Water</i> , 2021, 1, 2037-2045.	4.6	5
15	A novel anoxic/aerobic process coupled with micro-aerobic/anaerobic side-stream reactor filled with packing carriers for in-situ sludge reduction. <i>Journal of Cleaner Production</i> , 2021, 311, 127192.	9.3	13
16	Metagenomic insights into the â€windowâ€effect of static magnetic field on nitrous oxide emission from biological nitrogen removal process at low temperature. <i>Journal of Environmental Management</i> , 2021, 298, 113377.	7.8	6
17	Removal of pharmaceuticals by ammonia oxidizers during nitrification. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 909-921.	3.6	9
18	A novel start-up strategy for mixotrophic denitrification biofilters by rhamnolipid and its performance on denitrification of low C/N wastewater. <i>Chemosphere</i> , 2020, 239, 124726.	8.2	20

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19	Effect of salinity on mature wastewater treatment biofilm microbial community assembly and metabolite characteristics. <i>Science of the Total Environment</i> , 2020, 711, 134437.	8.0	21
20	An efficient method for extracting microplastics from feces of different species. <i>Journal of Hazardous Materials</i> , 2020, 384, 121489.	12.4	65
21	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. <i>Chemical Engineering Journal</i> , 2020, 379, 122254.	12.7	69
22	Dissolved organic matter (DOM) removal from biotreated coking wastewater by chitosan-modified biochar: Adsorption fractions and mechanisms. <i>Bioresource Technology</i> , 2020, 297, 122281.	9.6	66
23	Comparative analysis of surface water quality prediction performance and identification of key water parameters using different machine learning models based on big data. <i>Water Research</i> , 2020, 171, 115454.	11.3	254
24	Bacterial enrichment in highly-selective acetate-fed bioreactors and its application in rapid biofilm formation. <i>Water Research</i> , 2020, 170, 115359.	11.3	5
25	In-situ monitoring AHL-mediated quorum-sensing regulation of the initial phase of wastewater biofilm formation. <i>Environment International</i> , 2020, 135, 105326.	10.0	39
26	Exposure to microplastics cause gut damage, locomotor dysfunction, epigenetic silencing, and aggravate cadmium (Cd) toxicity in <i>Drosophila</i> . <i>Science of the Total Environment</i> , 2020, 744, 140979.	8.0	69
27	Simultaneous nitrogen removal and toxicity reduction of synthetic municipal wastewater by micro-electrolysis and sulfur-based denitrification biofilter. <i>Bioresource Technology</i> , 2020, 316, 123924.	9.6	19
28	In-situ monitoring of the unstable bacterial adhesion process during wastewater biofilm formation: A comprehensive study. <i>Environment International</i> , 2020, 140, 105722.	10.0	28
29	Characterization of dissolved organic matter in reclaimed wastewater supplying urban rivers with a special focus on dissolved organic nitrogen: A seasonal study. <i>Environmental Pollution</i> , 2020, 265, 114959.	7.5	9
30	Distribution and removal of fluorescent dissolved organic matter in 15 municipal wastewater treatment plants in China. <i>Chemosphere</i> , 2020, 251, 126375.	8.2	33
31	Combined influences of process parameters on microorganism-derived dissolved organic nitrogen (mDON) formation at low temperatures: Multivariable statistical and systematic analysis. <i>Science of the Total Environment</i> , 2020, 744, 140732.	8.0	4
32	Characteristics of DOM in 14 AAO processes of municipal wastewater treatment plants. <i>Science of the Total Environment</i> , 2020, 742, 140654.	8.0	23
33	Modeling the formation of microorganism-derived dissolved organic nitrogen (mDON) in the activated sludge system. <i>Water Research</i> , 2020, 174, 115604.	11.3	24
34	Machine learning-aided analyses of thousands of draft genomes reveal specific features of activated sludge processes. <i>Microbiome</i> , 2020, 8, 16.	11.1	42
35	Characteristics of dissolved organic nitrogen in effluent from a biological nitrogen removal process using sludge alkaline fermentation liquid as an external carbon source. <i>Water Research</i> , 2020, 176, 115741.	11.3	41
36	The characterization of dissolved organic matter in alkaline fermentation of sewage sludge with different pH for volatile fatty acids production. <i>Water Research</i> , 2019, 164, 114924.	11.3	58

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37	Accumulation of different shapes of microplastics initiates intestinal injury and gut microbiota dysbiosis in the gut of zebrafish. <i>Chemosphere</i> , 2019, 236, 124334.	8.2	450
38	Occurrence and fate of androgens in municipal wastewater treatment plants in China. <i>Chemosphere</i> , 2019, 237, 124371.	8.2	16
39	Removal of artificial sweeteners using UV/persulfate: Radical-based degradation kinetic model in wastewater, pathways and toxicity. <i>Water Research</i> , 2019, 167, 115102.	11.3	38
40	Aromatic compounds lead to increased abundance of antibiotic resistance genes in wastewater treatment bioreactors. <i>Water Research</i> , 2019, 166, 115073.	11.3	53
41	Long-term exogenous addition of synthetic acyl homoserine lactone enhanced the anaerobic granulation process. <i>Science of the Total Environment</i> , 2019, 696, 133809.	8.0	24
42	Undesirable effects of exogenous N-acyl homoserine lactones on moving bed biofilm reactor treating medium-strength synthetic wastewater. <i>Science of the Total Environment</i> , 2019, 696, 134061.	8.0	19
43	Insight into mature biofilm quorum sensing in full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019, 234, 310-317.	8.2	20
44	Distribution characteristics of N-acyl homoserine lactones during the moving bed biofilm reactor biofilm development process: Effect of carbon/nitrogen ratio and exogenous quorum sensing signals. <i>Bioresource Technology</i> , 2019, 289, 121591.	9.6	23
45	Abiotic and biotic processes of diclofenac in enriched nitrifying sludge: Kinetics, transformation products and reactions. <i>Science of the Total Environment</i> , 2019, 683, 80-88.	8.0	18
46	Quorum sensing signaling distribution during the development of full-scale municipal wastewater treatment biofilms. <i>Science of the Total Environment</i> , 2019, 685, 28-36.	8.0	32
47	Effect of temperature on the characterization of soluble microbial products in activated sludge system with special emphasis on dissolved organic nitrogen. <i>Water Research</i> , 2019, 162, 87-94.	11.3	43
48	Combined effects of polystyrene microplastics and natural organic matter on the accumulation and toxicity of copper in zebrafish. <i>Science of the Total Environment</i> , 2019, 682, 128-137.	8.0	203
49	Effect of microbial activity and microbial community structure on the formation of dissolved organic nitrogen (DON) and bioavailable DON driven by low temperatures. <i>Water Research</i> , 2019, 159, 397-405.	11.3	35
50	Enhanced biofilm formation and denitrification in biofilters for advanced nitrogen removal by rhamnolipid addition. <i>Bioresource Technology</i> , 2019, 287, 121387.	9.6	61
51	Low-level free nitrous acid efficiently inhibits the conjugative transfer of antibiotic resistance by altering intracellular ions and disabling transfer apparatus. <i>Water Research</i> , 2019, 158, 383-391.	11.3	48
52	Occurrence and removal of progestagens in municipal wastewater treatment plants from different regions in China. <i>Science of the Total Environment</i> , 2019, 668, 1191-1199.	8.0	35
53	Diverse aromatic-degrading bacteria present in a highly enriched autotrophic nitrifying sludge. <i>Science of the Total Environment</i> , 2019, 666, 245-251.	8.0	39
54	Municipal wastewater treatment in China: Development history and future perspectives. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	238

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55	Towards the biofilm characterization and regulation in biological wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1115-1129.	3.6	70
56	Linking microbial respiratory activity with phospholipid fatty acid of biofilm from full-scale bioreactors. <i>Bioresource Technology</i> , 2019, 272, 599-605.	9.6	9
57	Effect of Solids Retention Time on Effluent Dissolved Organic Nitrogen in the Activated Sludge Process: Studies on Bioavailability, Fluorescent Components, and Molecular Characteristics. <i>Environmental Science & Technology</i> , 2018, 52, 3449-3455.	10.0	49
58	Effect of adding low-concentration of rhamnolipid on reactor performances and microbial community evolution in MBBRs for low C/N ratio and antibiotic wastewater treatment. <i>Bioresource Technology</i> , 2018, 256, 557-561.	9.6	41
59	Removal Characteristics of Dissolved Organic Nitrogen and Its Bioavailable Portion in a Postdenitrifying Biofilter: Effect of the C/N Ratio. <i>Environmental Science & Technology</i> , 2018, 52, 757-764.	10.0	43
60	Calcium ion- and rhamnolipid-mediated deposition of soluble matters on biocarriers. <i>Water Research</i> , 2018, 133, 37-46.	11.3	26
61	Removal of artificial sweeteners and their effects on microbial communities in sequencing batch reactors. <i>Scientific Reports</i> , 2018, 8, 3399.	3.3	13
62	Towards physicochemical and biological effects on detachment and activity recovery of aging biofilm by enzyme and surfactant treatments. <i>Bioresource Technology</i> , 2018, 247, 319-326.	9.6	51
63	Comparative study of activated sludge with different individual nitrogen sources at a low temperature: Effluent dissolved organic nitrogen compositions, metagenomic and microbial community. <i>Bioresource Technology</i> , 2018, 247, 915-923.	9.6	33
64	Polyethylene imine modified hydrochar adsorption for chromium (VI) and nickel (II) removal from aqueous solution. <i>Bioresource Technology</i> , 2018, 247, 370-379.	9.6	182
65	Estimation of spatial distribution of quorum sensing signaling in sequencing batch biofilm reactor (SBBR) biofilms. <i>Science of the Total Environment</i> , 2018, 612, 405-414.	8.0	40
66	The diversity, distribution and function of N-acyl-homoserine lactone (AHL) in industrial anaerobic granular sludge. <i>Bioresource Technology</i> , 2018, 247, 116-124.	9.6	88
67	In situ monitoring of wastewater biofilm formation process via ultrasonic time domain reflectometry (UTDR). <i>Chemical Engineering Journal</i> , 2018, 334, 2134-2141.	12.7	32
68	The biological role of N-acyl-homoserine lactone-based quorum sensing (QS) in EPS production and microbial community assembly during anaerobic granulation process. <i>Scientific Reports</i> , 2018, 8, 15793.	3.3	45
69	Transformation of anaerobic granules into aerobic granules and the succession of bacterial community. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7703-7713.	3.6	28
70	Removal characteristics of DON in pharmaceutical wastewater and its influence on the N-nitrosodimethylamine formation potential and acute toxicity of DOM. <i>Water Research</i> , 2017, 109, 114-121.	11.3	54
71	Phosphorus recovery from biogas slurry by ultrasound/H ₂ O ₂ digestion coupled with HFO/biochar adsorption process. <i>Waste Management</i> , 2017, 60, 219-229.	7.4	45
72	Development of an extraction method and LC-MS analysis for N-acylated-l-homoserine lactones (AHLs) in wastewater treatment biofilms. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1041-1042, 37-44.	2.3	50

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73	Impact of selected non-steroidal anti-inflammatory pharmaceuticals on microbial community assembly and activity in sequencing batch reactors. PLoS ONE, 2017, 12, e0179236.	2.5	41
74	Can fluorescence spectrometry be used as a surrogate for predicting the dissolved organic nitrogen and its bioavailable portion in wastewater effluents?. Chemosphere, 2016, 164, 299-303.	8.2	17
75	Concentration, composition, bioavailability, and N-nitrosodimethylamine formation potential of particulate and dissolved organic nitrogen in wastewater effluents: A comparative study. Science of the Total Environment, 2016, 569-570, 1359-1368.	8.0	25
76	Metagenomic analysis of bacterial community composition and antibiotic resistance genes in a wastewater treatment plant and its receiving surface water. Ecotoxicology and Environmental Safety, 2016, 132, 260-269.	6.0	123
77	The strengthening effect of a static magnetic field on activated sludge activity at low temperature. Bioresource Technology, 2013, 150, 156-162.	9.6	54
78	Modeling assessment for ammonium nitrogen recovery from wastewater by chemical precipitation. Journal of Environmental Sciences, 2011, 23, 881-890.	6.1	37