Xiao-yan Li

List of Publications by Year
in descending order

328	18,889	16450 64	16650 123
papers	citations	h-index	g-index

332	332	332	16345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extracellular polymeric substances (EPS) of microbial aggregates in biological wastewater treatment systems: A review. Biotechnology Advances, 2010, 28, 882-894.	11.7	2,305
2	Influence of loosely bound extracellular polymeric substances (EPS) on the flocculation, sedimentation and dewaterability of activated sludge. Water Research, 2007, 41, 1022-1030.	11.3	1,535
3	Reaction pathways and mechanisms of the electrochemical degradation of phenol on different electrodes. Water Research, 2005, 39, 1972-1981.	11.3	525
4	High-content ductile coherent nanoprecipitates achieve ultrastrong high-entropy alloys. Nature Communications, 2018, 9, 4063.	12.8	399
5	Mechanical properties and deformation mechanisms of gradient nanostructured metals and alloys. Nature Reviews Materials, 2020, 5, 706-723.	48.7	345
6	Settling Velocities of Fractal Aggregates. Environmental Science & Technology, 1996, 30, 1911-1918.	10.0	302
7	Influences of extracellular polymeric substances (EPS) on the characteristics of activated sludge under non-steady-state conditions. Process Biochemistry, 2009, 44, 91-96.	3.7	238
8	Selective removals of heavy metals (Pb2+, Cu2+, and Cd2+) from wastewater by gelation with alginate for effective metal recovery. Journal of Hazardous Materials, 2016, 308, 75-83.	12.4	238
9	Deciphering of microbial community and antibiotic resistance genes in activated sludge reactors under high selective pressure of different antibiotics. Water Research, 2019, 151, 388-402.	11.3	229
10	Microbial population dynamics during aerobic sludge granulation at different organic loading rates. Water Research, 2008, 42, 3552-3560.	11.3	221
11	Electrochemical degradation of bisphenol A on different anodes. Water Research, 2009, 43, 1968-1976.	11.3	212
12	Ultralight, scalable, and high-temperatureâ€“resilient ceramic nanofiber sponges. Science Advances, 2017, 3, e1603170.	10.3	207
13	Sorption and desorption of antibiotic tetracycline on marine sediments. Chemosphere, 2010, 78, 430-436.	8.2	189
14	The Failure of Solid Electrolyte Interphase on Li Metal Anode: Structural Uniformity or Mechanical Strength?. Advanced Energy Materials, 2020, 10, 1903645.	19.5	182
15	Ultrahigh specific strength in a magnesium alloy strengthened by spinodal decomposition. Science Advances, 2021, 7, .	10.3	176
16	Which Micropollutants in Water Environments Deserve More Attention Globally?. Environmental Science & Technology, 2022, 56, 13-29.	10.0	176
17	Membrane fouling in a membrane bioreactor (MBR): Sludge cake formation and fouling characteristics. Biotechnology and Bioengineering, 2005, 90, 323-331.	3.3	163
18	Preparation and evaluation of a magnetite-doped activated carbon fiber for enhanced arsenic removal. Carbon, 2010, 48, 60-67.	10.3	162

#	Article	IF	Citations
19	An XPS study for mechanisms of arsenate adsorption onto a magnetite-doped activated carbon fiber. Journal of Colloid and Interface Science, 2010, 343, 232-238.	9.4	161
20	Deciphering the mobility and bacterial hosts of antibiotic resistance genes under antibiotic selection pressure by metagenomic assembly and binning approaches. Water Research, 2020, 186, 116318.	11.3	160
21	Lightweight, flaw-tolerant, and ultrastrong nanoarchitected carbon. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6665-6672.	7.1	158
22	Synthesis of MoS2/g-C3N4 as a solar light-responsive photocatalyst for organic degradation. Catalysis Communications, 2014, 49, 63-67.	3.3	157
23	Permeability of Fractal Aggregates. Water Research, 2001, 35, 3373-3380.	11.3	146
24	Fracture of graphene: a review. International Journal of Fracture, 2015, 196, 1-31.	2.2	144
25	Antibiotic resistome in a largeâ€scale healthy human gut microbiota deciphered by metagenomic and network analyses. Environmental Microbiology, 2018, 20, 355-368.	3.8	141
26	Antibiotic resistome in landfill leachate from different cities of China deciphered by metagenomic analysis. Water Research, 2018, 134, 126-139.	11.3	138
27	Membrane bioreactor for the drinking water treatment of polluted surface water supplies. Water Research, 2003, 37, 4781-4791.	11.3	137
28	Recoverable plasticity in penta-twinned metallic nanowires governed by dislocation nucleation and retraction. Nature Communications, 2015, 6, 5983.	12.8	135
29	Modelling of membrane fouling in a submerged membrane bioreactor. Journal of Membrane Science, 2006, 278, 151-161.	8.2	134
30	Stability of sludge flocs under shear conditions: Roles of extracellular polymeric substances (EPS). Biotechnology and Bioengineering, 2006, 93, 1095-1102.	3.3	127
31	Accumulation of biopolymer clusters in a submerged membrane bioreactor and its effect on membrane fouling. Water Research, 2008, 42, 855-862.	11.3	127
32	Collision Frequencies of Fractal Aggregates with Small Particles by Differential Sedimentation. Environmental Science & Technology, 1997, 31, 1229-1236.	10.0	126
33	Membrane (RO-UF) filtration for antibiotic wastewater treatment and recovery of antibiotics. Separation and Purification Technology, 2004, 34, 109-114.	7.9	121
34	The synergetic effect of MoS2 and graphene on Ag3PO4 for its ultra-enhanced photocatalytic activity in phenol degradation under visible light. Nanoscale, 2014, 6, 8311.	5.6	112
35	Complex microbial nitrogen-cycling networks in three distinct anammox-inoculated wastewater treatment systems. Water Research, 2020, 168, 115142.	11.3	109
36	Three-Dimensional High-Entropy Alloyâ€“Polymer Composite Nanolattices That Overcome the Strengthâ€“Recoverability Trade-off. Nano Letters, 2018, 18, 4247-4256.	9.1	108

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37	Chemical oxidative degradation of methyl tert-butyl ether in aqueous solution by Fentonâ€™s reagent. Chemosphere, 2004, 55, 73-79.	8.2	106
38	Smaller and stronger. Nature Materials, 2016, 15, 373-374.	27.5	106
39	MoS2/reduced graphene oxide hybrid with CdS nanoparticles as a visible light-driven photocatalyst for the reduction of 4-nitrophenol. Journal of Hazardous Materials, 2016, 309, 173-179.	12.4	106
40	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. Nature, 2021, 594, 57-61.	27.8	105
41	Collision Frequencies between Fractal Aggregates and Small Particles in a Turbulently Sheared Fluid. Environmental Science & Technology, 1997, 31, 1237-1242.	10.0	101
42	Settling velocities and permeabilities of microbial aggregates. Water Research, 2002, 36, 3110-3120.	11.3	99
43	Effect of coagulant on acidogenic fermentation of sludge from enhanced primary sedimentation for resource recovery: Comparison between FeCl 3 and PACl. Chemical Engineering Journal, 2017, 325, 681-689.	12.7	99
44	Three-step effluent chlorination increases disinfection efficiency and reduces DBP formation and toxicity. Chemosphere, 2017, 168, 1302-1308.	8.2	98
45	Degradation of melatonin by UV, UV/H2O2, Fe2+/H2O2 and UV/Fe2+/H2O2 processes. Separation and Purification Technology, 2009, 68, 261-266.	7.9	96
46	A review on the degradation efficiency, DBP formation, and toxicity variation in the UV/chlorine treatment of micropollutants. Chemical Engineering Journal, 2021, 424, 130053.	12.7	91
47	In situ embedment and growth of anhydrous and hydrated aluminum oxide particles on polyvinylidene fluoride (PVDF) membranes. Journal of Membrane Science, 2011, 368, 134-143.	8.2	90
48	Performance of nanofiltration membrane in rejecting trace organic compounds: Experiment and model prediction. Desalination, 2015, 370, 7-16.	8.2	85
49	Two-step chlorination: A new approach to disinfection of a primary sewage effluent. Water Research, 2017, 108, 339-347.	11.3	83
50	Effectiveness and Mechanisms of Defluorination of Perfluorinated Alkyl Substances by Calcium Compounds during Waste Thermal Treatment. Environmental Science & Technology, 2015, 49, 5672-5680.	10.0	81
51	Theoretical strength and rubber-like behaviour in micro-sized pyrolytic carbon. Nature Nanotechnology, 2019, 14, 762-769.	31.5	80
52	The quorum-sensing effect of aerobic granules on bacterial adhesion, biofilm formation, and sludge granulation. Applied Microbiology and Biotechnology, 2010, 88, 789-797.	3.6	79
53	Effect of the food-to-microorganism (F/M) ratio on the formation and size of aerobic sludge granules. Process Biochemistry, 2011, 46, 2269-2276.	3.7	77
54	Scalable Synthesis of 2D Si Nanosheets. Advanced Materials, 2017, 29, 1701777.	21.0	77

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55	Degradation of 1,4-dioxane via controlled generation of radicals by pyrite-activated oxidants: Synergistic effects, role of disulfides, and activation sites. Chemical Engineering Journal, 2018, 336, 416-426.	12.7	77
56	A membrane bioreactor with iron dosing and acidogenic co-fermentation for enhanced phosphorus removal and recoveryÂinÂwastewater treatment. Water Research, 2018, 129, 402-412.	11.3	77
57	Modeling particle-size distribution dynamics in a flocculation system. AICHE Journal, 2003, 49, 1870-1882.	3.6	76
58	Phosphorus Removal and Recovery from Wastewater using Fe-Dosing Bioreactor and Cofermentation: Investigation by X-ray Absorption Near-Edge Structure Spectroscopy. Environmental Science & Technology, 2018, 52, 14119-14128.	10.0	74
59	Regain Strain-Hardening in High-Strength Metals by Nanofiller Incorporation at Grain Boundaries. Nano Letters, 2018, 18, 6255-6264.	9.1	74
60	Cytochrome cd1-Containing Nitrite Reductase Encoding Gene nirS as a New Functional Biomarker for Detection of Anaerobic Ammonium Oxidizing (Anammox) Bacteria. Environmental Science & Technology, 2011, 45, 3547-3553.	10.0	73
61	Size distributions and fractal properties of particles during a simulated phytoplankton bloom in a mesocosm. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 125-138.	1.4	68
62	Microbial community composition and metabolic functions in landfill leachate from different landfills of China. Science of the Total Environment, 2021, 767, 144861.	8.0	68
63	Granular activated carbon for aerobic sludge granulation in a bioreactor with a low-strength wastewater influent. Separation and Purification Technology, 2011, 80, 276-283.	7.9	67
64	Recovery of phosphorus and volatile fatty acids from wastewater and food waste with an iron-flocculation sequencing batch reactor and acidogenic co-fermentation. Bioresource Technology, 2017, 245, 615-624.	9.6	67
65	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. ACS Sustainable Chemistry and Engineering, 2018, 6, 3624-3631.	6.7	67
66	Photocatalytic hydrogen generation with simultaneous organic degradation by composite CdSâ€“ZnS nanoparticles under visible light. International Journal of Hydrogen Energy, 2014, 39, 13454-13461.	7.1	66
67	Characterization of soluble microbial products as precursors of disinfection byproducts in drinking water supply. Science of the Total Environment, 2014, 472, 818-824.	8.0	66
68	Fabrication of sulfur-doped TiO2 nanotube array as a conductive interlayer of PbO2 anode for efficient electrochemical oxidation of organic pollutants. Separation and Purification Technology, 2021, 258, 118035.	7.9	64
69	Effect of N-acy-l-homoserine lactones-like molecules from aerobic granules on biofilm formation by Escherichia coli K12. Bioresource Technology, 2013, 129, 655-658.	9.6	63
70	High-efficiency biodegradation of chloramphenicol by enriched bacterial consortia: Kinetics study and bacterial community characterization. Journal of Hazardous Materials, 2020, 384, 121344.	12.4	63
71	Design, Fabrication, and Mechanics of 3D Microâ€/Nanolattices. Small, 2020, 16, e1902842.	10.0	62
72	Nitrogen-doped microporous carbon: An efficient oxygen reduction catalyst for Zn-air batteries. Journal of Power Sources, 2017, 359, 71-79.	7.8	61

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73	Ultralight and resilient Al₂O₃ nanotube aerogels with low thermal conductivity. Journal of the American Ceramic Society, 2018, 101, 1677-1683.	3.8	61
74	Recovery of organic carbon and phosphorus from wastewater by Fe-enhanced primary sedimentation and sludge fermentation. Process Biochemistry, 2017, 54, 135-139.	3.7	60
75	Effects of pH adjustment on the hydrolysis of Al-enhanced primary sedimentation sludge for volatile fatty acid production. Chemical Engineering Journal, 2018, 346, 50-56.	12.7	60
76	Collision Frequencies of Microbial Aggregates with Small Particles by Differential Sedimentation. Environmental Science & Technology, 2002, 36, 387-393.	10.0	59
77	Biodegradation and biotransformation of wastewater organics as precursors of disinfection byproducts in water. Chemosphere, 2010, 81, 1075-1083.	8.2	59
78	Acidogenic fermentation of iron-enhanced primary sedimentation sludge under different pH conditions for production of volatile fatty acids. Chemosphere, 2018, 194, 692-700.	8.2	59
79	Degradation of n-butyl benzyl phthalate using TiO2/UV. Journal of Hazardous Materials, 2009, 164, 527-532.	12.4	58
80	Quorum quenching is responsible for the underestimated quorum sensing effects in biological wastewater treatment reactors. Bioresource Technology, 2014, 171, 472-476.	9.6	58
81	Recovery of organic resources from sewage sludge of Al-enhanced primary sedimentation by alkali pretreatment and acidogenic fermentation. Journal of Cleaner Production, 2018, 172, 3334-3341.	9.3	57
82	Hydrodynamics of Biological Aggregates of Different Sludge Ages:Â An Insight into the Mass Transport Mechanisms of Bioaggregates. Environmental Science & Technology, 2003, 37, 292-299.	10.0	56
83	Physical and hydrodynamic properties of flocs produced during biological hydrogen production. Biotechnology and Bioengineering, 2004, 88, 854-860.	3.3	56
84	Probing the contribution of extracellular polymeric substance fractions to activated-sludge bioflocculation using particle image velocimetry in combination with extended DLVO analysis. Chemical Engineering Journal, 2016, 303, 627-635.	12.7	56
85	Genomic characterization, kinetics, and pathways of sulfamethazine biodegradation by Paenarthrobacter sp. A01. Environment International, 2019, 131, 104961.	10.0	56
86	Metal-organic framework-derived carbon nanotubes with multi-active Fe-N/Fe sites as a bifunctional electrocatalyst for zinc-air battery. Journal of Energy Chemistry, 2022, 66, 306-313.	12.9	56
87	Comparison of chemical and biological degradation of sulfonamides: Solving the mystery of sulfonamide transformation. Journal of Hazardous Materials, 2022, 424, 127661.	12.4	56
88	Selective sludge discharge as the determining factor in SBR aerobic granulation: Numerical modelling and experimental verification. Water Research, 2009, 43, 3387-3396.	11.3	55
89	PIV characterisation of flocculation dynamics and floc structure in water treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 379, 27-35.	4.7	55
90	Performance and bacterial community of moving bed biofilm reactors with various biocarriers treating primary wastewater effluent with a low organic strength and low C/N ratio. Bioresource Technology, 2019, 287, 121424.	9.6	55

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91	Fabrication of reactive flat-sheet ceramic membranes for oxidative degradation of ofloxacin by peroxymonosulfate. Journal of Membrane Science, 2020, 611, 118302.	8.2	55
92	Bending Induced Rippling and Twisting of Multiwalled Carbon Nanotubes. Physical Review Letters, 2007, 98, 205502.	7.8	53
93	Sorption Behavior of Bisphenol A and Triclosan by Graphene: Comparison with Activated Carbon. ACS Omega, 2017, 2, 5378-5384.	3.5	53
94	Deformation Mechanisms and Remarkable Strain Hardening in Single-Crystalline High-Entropy-Alloy Micropillars/Nanopillars. Nano Letters, 2021, 21, 3671-3679.	9.1	52
95	Adsorption and Thermal Stabilization of Pb²⁺ and Cu²⁺ by Zeolite. Industrial & Engineering Chemistry Research, 2016, 55, 8767-8773.	3.7	51
96	Influence of a thin aluminum hydroxide coating layer on the suspension stability and reductive reactivity of nanoscale zero-valent iron. Applied Catalysis B: Environmental, 2018, 226, 554-564.	20.2	51
97	Adsorption behaviour of dibutyl phthalate on marine sediments. Marine Pollution Bulletin, 2008, 57, 403-408.	5.0	49
98	Freestanding 3-dimensional macro-porous SnO2 electrodes for efficient electrochemical degradation of antibiotics in wastewater. Chemical Engineering Journal, 2021, 422, 130032.	12.7	49
99	Kinetics of n-butyl benzyl phthalate degradation by a pure bacterial culture from the mangrove sediment. Journal of Hazardous Materials, 2007, 140, 194-199.	12.4	48
100	Synthesis and Catalytic Activity of Iron Hydride Ligated with Bidentate N-Heterocyclic Silylenes for Hydroboration of Carbonyl Compounds. Organometallics, 2019, 38, 268-277.	2.3	48
101	Structural Defects, Mechanical Behaviors, and Properties of Two-Dimensional Materials. Materials, 2021, 14, 1192.	2.9	48
102	Bi-metal oxide-modified flat-sheet ceramic membranes for catalytic ozonation of organic pollutants in wastewater treatment. Chemical Engineering Journal, 2021, 426, 131263.	12.7	48
103	Disinfection characteristics of the dissolved organic fractions at several stages of a conventional drinking water treatment plant in Southern China. Journal of Hazardous Materials, 2009, 172, 1093-1099.	12.4	46
104	Fracture, fatigue, and creep of nanotwinned metals. MRS Bulletin, 2016, 41, 298-304.	3.5	46
105	Accuracy and application of quantitative X-ray diffraction on the precipitation of struvite product. Water Research, 2016, 90, 9-14.	11.3	46
106	Direct filtration for the treatment of the coagulated domestic sewage using flat-sheet ceramic membranes. Chemosphere, 2019, 223, 383-390.	8.2	46
107	Continuous Roll-to-Roll Production of Carbon Nanoparticles from Candle Soot. Nano Letters, 2021, 21, 3198-3204.	9.1	46
108	Kinetic analysis on the two-step processes of AOB and NOB in aerobic nitrifying granules. Applied Microbiology and Biotechnology, 2009, 83, 1159-1169.	3.6	45

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109	Aerobic sludge granulation facilitated by activated carbon for partial nitrification treatment of ammonia-rich wastewater. Chemical Engineering Journal, 2013, 218, 253-259.	12.7	45
110	Synthesis of a sulfur-graphene composite as an enhanced metal-free photocatalyst. Nano Research, 2013, 6, 286-292.	10.4	45
111	Transition-Metal-Free Synthesis of Fluorinated Arenes from Perfluorinated Arenes Coupled with Grignard Reagents. Organometallics, 2014, 33, 1079-1081.	2.3	45
112	Reponses of microbial community and antibiotic resistance genes to the selection pressures of ampicillin, cephalexin and chloramphenicol in activated sludge reactors. Science of the Total Environment, 2021, 755, 142632.	8.0	45
113	Visualisation and characterisation of biopolymer clusters in a submerged membrane bioreactor. Journal of Membrane Science, 2008, 325, 691-697.	8.2	44
114	Impact of salinity on cathode catalyst performance in microbial fuel cells (MFCs). International Journal of Hydrogen Energy, 2011, 36, 13900-13906.	7.1	44
115	Influence of cations on the partition behavior of perfluoroheptanoate (PFHpA) and perfluorohexanesulfonate (PFHxS) on wastewater sludge. Chemosphere, 2015, 131, 178-183.	8.2	44
116	Chloramphenicol biodegradation by enriched bacterial consortia and isolated strain Sphingomonas sp. CL5.1: The reconstruction of a novel biodegradation pathway. Water Research, 2020, 187, 116397.	11.3	44
117	Effects of seed sludge properties and selective biomass discharge on aerobic sludge granulation. Chemical Engineering Journal, 2010, 160, 108-114.	12.7	43
118	Synthesis and Catalytic Application in Hydrosilylation of the Complex mer-Hydrido(2-mercaptobenzoyl)tris(trimethylphosphine)cobalt(III). Organometallics, 2013, 32, 5235-5238.	2.3	43
119	Fate of aerobic bacterial granules with fungal contamination under different organic loading conditions. Chemosphere, 2010, 78, 500-509.	8.2	42
120	A highly selective and sensitive fluorescent sensor for the rapid detection of Hg2+ based on phenylamine-oligothiophene derivative. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 143-146.	3.9	42
121	Fungal Cell Wallâ€Graphene Oxide Microcomposite Membrane for Organic Solvent Nanofiltration. Advanced Functional Materials, 2021, 31, 2100110.	14.9	42
122	Buckled Tin Oxide Nanobelt Webs as Highly Stretchable and Transparent Photosensors. Small, 2015, 11, 5712-5718.	10.0	41
123	Specific and effective detection of anammox bacteria using PCR primers targeting the 16S rRNA gene and functional genes. Science of the Total Environment, 2020, 734, 139387.	8.0	41
124	Synthesis of [POCOP]-pincer iron and cobalt complexes via C_{sp3}â€“H activation and catalytic application of iron hydride in hydrosilylation reactions. RSC Advances, 2015, 5, 15660-15667.	3.6	40
125	Cycling of a Lithiumâ€Ion Battery with a Silicon Anode Drives Large Mechanical Actuation. Advanced Materials, 2016, 28, 10236-10243.	21.0	40
126	Synthesis and Reactivity of N-Heterocyclic PSiP Pincer Iron and Cobalt Complexes and Catalytic Application of Cobalt Hydride in Kumada Coupling Reactions. Organometallics, 2016, 35, 357-363.	2.3	40

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127	Electro-fermentation of iron-enhanced primary sedimentation sludge in a two-chamber bioreactor for product separation and resource recovery. Water Research, 2019, 157, 145-154.	11.3	40
128	Characterization and mitigation of the fouling of flat-sheet ceramic membranes for direct filtration of the coagulated domestic wastewater. Journal of Hazardous Materials, 2020, 385, 121557.	12.4	40
129	Survival strategies of ammonia-oxidizing archaea (AOA) in a full-scale WWTP treating mixed landfill leachate containing copper ions and operating at low-intensity of aeration. Water Research, 2021, 191, 116798.	11.3	39
130	Quantification of the shear stresses in a microbial granular sludge reactor. Water Research, 2009, 43, 4643-4651.	11.3	38
131	Effects of humic acid on physical and hydrodynamic properties of kaolin flocs by particle image velocimetry. Water Research, 2011, 45, 3981-3990.	11.3	38
132	An innovative membrane bioreactor (MBR) system for simultaneous nitrogen and phosphorus removal. Process Biochemistry, 2013, 48, 1749-1756.	3.7	38
133	Selective Ammonium Removal from Synthetic Wastewater by Flow-Electrode Capacitive Deionization Using a Novel K₂Ti₂O₅-Activated Carbon Mixture Electrode. Environmental Science & Technology, 2020, 54, 12723-12731.	10.0	38
134	N₂ Silylation Catalyzed by a Bis(silylene)-Based [SiCSi] Pincer Hydrido Iron(II) Dinitrogen Complex. Organometallics, 2020, 39, 757-766.	2.3	38
135	New insights into the chlorination of sulfonamide: Smiles-type rearrangement, desulfation, and product toxicity. Chemical Engineering Journal, 2018, 331, 785-793.	12.7	37
136	Improved longevity of nanoscale zero-valent iron with a magnesium hydroxide coating shell for the removal of Cr(VI) in sand columns. Environment International, 2019, 133, 105249.	10.0	36
137	Encapsulating nanoscale zero-valent iron with a soluble Mg(OH)₂ shell for improved mobility and controlled reactivity release. Journal of Materials Chemistry A, 2018, 6, 2517-2526.	10.3	35
138	Sorption behavior of bisphenol A on marine sediments. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 239-246.	1.7	33
139	Electrochemical Generation of Ozone in a Membrane Electrode Assembly Cell with Convective Flow. Journal of the Electrochemical Society, 2009, 156, E75.	2.9	33
140	Organic diagenesis in sediment and its impact on the adsorption of bisphenol A and nonylphenol onto marine sediment. Marine Pollution Bulletin, 2011, 63, 578-582.	5.0	33
141	Effect of biopolymer clusters on the fouling property of sludge from a membrane bioreactor (MBR) and its control by ozonation. Process Biochemistry, 2011, 46, 162-167.	3.7	33
142	Direct photo transformation of tetracycline and sulfanomide group antibiotics in surface water: Kinetics, toxicity and site modeling. Science of the Total Environment, 2019, 686, 1-9.	8.0	33
143	Acidogenic phosphorus recovery from the wastewater sludge of the membrane bioreactor systems with different iron-dosing modes. Bioresource Technology, 2019, 280, 360-370.	9.6	33
144	A novel NH2-MIL-88B(Fe)-modified ceramic membrane for the integration of electro-Fenton and filtration processes: A case study on naproxen degradation. Chemical Engineering Journal, 2022, 433, 133547.	12.7	33

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145	Determination of the Fractal Dimension of Microbial Flocs from the Change in Their Size Distribution after Breakage. Environmental Science & Technology, 2005, 39, 2731-2735.	10.0	32
146	Change in the fouling propensity of sludge in membrane bioreactors (MBR) in relation to the accumulation of biopolymer clusters. Bioresource Technology, 2011, 102, 4718-4725.	9.6	32
147	Determination of autoinducer-2 in biological samples by high-performance liquid chromatography with fluorescence detection using pre-column derivatization. Journal of Chromatography A, 2014, 1361, 162-168.	3.7	30
148	Polymerized titanium salts for municipal wastewater preliminary treatment followed by further purification via crossflow filtration for water reuse. Separation and Purification Technology, 2019, 211, 207-217.	7.9	30
149	Fungal hypha-derived freestanding porous carbon pad as a high-capacity electrode for water desalination in membrane capacitive deionization. Chemical Engineering Journal, 2022, 433, 133781.	12.7	30
150	Modelling particle size distribution dynamics in marine waters. Water Research, 2004, 38, 1305-1317.	11.3	29
151	Insertion of Alkynes into Niâ˜H Bonds:Â Synthesis of Novel Vinyl Nickel(II) and Dinuclear Vinyl Nickel(II) Complexes Containing a [P, S]-Ligand. Organometallics, 2007, 26, 566-570.	2.3	29
152	Stability of sludge flocs under shear conditions. Biochemical Engineering Journal, 2008, 38, 302-308.	3.6	29
153	Sonogashira reactions of alkyl halides catalyzed by NHC [CNN] pincer nickel(ii) complexes. New Journal of Chemistry, 2018, 42, 11465-11470.	2.8	28
154	Transformation of Feâ€“P Complexes in Bioreactors and P Recovery from Sludge: Investigation by XANES Spectroscopy. Environmental Science & Technology, 2020, 54, 4641-4650.	10.0	28
155	Removal of emerging contaminants from wastewater during chemically enhanced primary sedimentation and acidogenic sludge fermentation. Water Research, 2020, 175, 115646.	11.3	28
156	Fractal dimensions of small (15â€“200 Î¼m) particles in Eastern Pacific coastal waters. Deep-Sea Research Part I: Oceanographic Research Papers, 1998, 45, 115-131.	1.4	27
157	Simple Synthesis and Structure Characterization of a Stable Niobium(V) Phosphoniomethylidyne Complex. Organometallics, 2005, 24, 4699-4701.	2.3	27
158	Sorption behaviour of benzyl butyl phthalate on marine sediments: Equilibrium assessments, effects of organic carbon content, temperature and salinity. Marine Chemistry, 2009, 115, 66-71.	2.3	27
159	Photocatalytic hydrogen generation with simultaneous organic degradation by a visible light-driven CdS/ZnS film catalyst. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 181, 86-92.	3.5	27
160	Mystery of the high chlorine consumption in disinfecting a chemically enhanced primary saline sewage. Water Research, 2018, 145, 181-189.	11.3	27
161	Effects of dechlorination conditions on the developmental toxicity of a chlorinated saline primary sewage effluent: Excessive dechlorination is better than not enough. Science of the Total Environment, 2019, 692, 117-126.	8.0	27
162	Retinoids and oestrogenic endocrine disrupting chemicals in saline sewage treatment plants: Removal efficiencies and ecological risks to marine organisms. Environment International, 2019, 127, 103-113.	10.0	27

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163	Fabrication of a permeable SnO2-Sb reactive anodic filter for high-efficiency electrochemical oxidation of antibiotics in wastewater. Environment International, 2021, 157, 106827.	10.0	27
164	Numerical simulation and experimental verification of particle coagulation dynamics for a pulsed input. Journal of Colloid and Interface Science, 2003, 262, 149-161.	9.4	26
165	Synthesis and catalytic application of [PPP]-pincer iron, nickel and cobalt complexes for the hydrosilylation of aldehydes and ketones. New Journal of Chemistry, 2018, 42, 16583-16590.	2.8	26
166	Occurrence and fate of PPCPs in typical drinking water treatment plants in China. Environmental Geochemistry and Health, 2019, 41, 5-15.	3.4	26
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