

Xiao-yan Li

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323
papers

12,947
citations

53
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103
g-index

332
ext. papers

15,857
ext. citations

8.3
avg, IF

7.2
L-index

#	Paper	IF	Citations
323	Extracellular polymeric substances (EPS) of microbial aggregates in biological wastewater treatment systems: a review. <i>Biotechnology Advances</i> , 2010 , 28, 882-94	17.8	1739
322	Influence of loosely bound extracellular polymeric substances (EPS) on the flocculation, sedimentation and dewaterability of activated sludge. <i>Water Research</i> , 2007 , 41, 1022-30	12.5	1121
321	Reaction pathways and mechanisms of the electrochemical degradation of phenol on different electrodes. <i>Water Research</i> , 2005 , 39, 1972-81	12.5	450
320	Settling Velocities of Fractal Aggregates. <i>Environmental Science & Technology</i> , 1996 , 30, 1911-1918	10.3	255
319	High-content ductile coherent nanoprecipitates achieve ultrastrong high-entropy alloys. <i>Nature Communications</i> , 2018 , 9, 4063	17.4	218
318	Influences of extracellular polymeric substances (EPS) on the characteristics of activated sludge under non-steady-state conditions. <i>Process Biochemistry</i> , 2009 , 44, 91-96	4.8	211
317	Selective removals of heavy metals (Pb(2+), Cu(2+), and Cd(2+)) from wastewater by gelation with alginate for effective metal recovery. <i>Journal of Hazardous Materials</i> , 2016 , 308, 75-83	12.8	196
316	Microbial population dynamics during aerobic sludge granulation at different organic loading rates. <i>Water Research</i> , 2008 , 42, 3552-60	12.5	192
315	Electrochemical degradation of bisphenol A on different anodes. <i>Water Research</i> , 2009 , 43, 1968-76	12.5	179
314	Sorption and desorption of antibiotic tetracycline on marine sediments. <i>Chemosphere</i> , 2010 , 78, 430-6	8.4	161
313	Preparation and evaluation of a magnetite-doped activated carbon fiber for enhanced arsenic removal. <i>Carbon</i> , 2010 , 48, 60-67	10.4	142
312	Membrane fouling in a membrane bioreactor (MBR): sludge cake formation and fouling characteristics. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 323-31	4.9	141
311	Permeability of fractal aggregates. <i>Water Research</i> , 2001 , 35, 3373-80	12.5	131
310	Mechanical properties and deformation mechanisms of gradient nanostructured metals and alloys. <i>Nature Reviews Materials</i> , 2020 , 5, 706-723	73.3	126
309	Synthesis of MoS ₂ /g-C ₃ N ₄ as a solar light-responsive photocatalyst for organic degradation. <i>Catalysis Communications</i> , 2014 , 49, 63-67	3.2	126
308	Membrane bioreactor for the drinking water treatment of polluted surface water supplies. <i>Water Research</i> , 2003 , 37, 4781-91	12.5	124
307	Ultralight, scalable, and high-temperature-resilient ceramic nanofiber sponges. <i>Science Advances</i> , 2017 , 3, e1603170	14.3	123

306	An XPS study for mechanisms of arsenate adsorption onto a magnetite-doped activated carbon fiber. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 232-8	9.3	122
305	Deciphering of microbial community and antibiotic resistance genes in activated sludge reactors under high selective pressure of different antibiotics. <i>Water Research</i> , 2019 , 151, 388-402	12.5	120
304	Collision Frequencies of Fractal Aggregates with Small Particles by Differential Sedimentation. <i>Environmental Science & Technology</i> , 1997 , 31, 1229-1236	10.3	118
303	Modelling of membrane fouling in a submerged membrane bioreactor. <i>Journal of Membrane Science</i> , 2006 , 278, 151-161	9.6	118
302	Recoverable plasticity in penta-twinned metallic nanowires governed by dislocation nucleation and retraction. <i>Nature Communications</i> , 2015 , 6, 5983	17.4	114
301	Accumulation of biopolymer clusters in a submerged membrane bioreactor and its effect on membrane fouling. <i>Water Research</i> , 2008 , 42, 855-62	12.5	112
300	Stability of sludge flocs under shear conditions: roles of extracellular polymeric substances (EPS). <i>Biotechnology and Bioengineering</i> , 2006 , 93, 1095-102	4.9	110
299	Fracture of graphene: a review. <i>International Journal of Fracture</i> , 2015 , 196, 1-31	2.3	108
298	The synergetic effect of MoS ₂ and graphene on Ag ₂ O for its ultra-enhanced photocatalytic activity in phenol degradation under visible light. <i>Nanoscale</i> , 2014 , 6, 8311-7	7.7	103
297	Membrane (RO-UF) filtration for antibiotic wastewater treatment and recovery of antibiotics. <i>Separation and Purification Technology</i> , 2004 , 34, 109-114	8.3	98
296	The Failure of Solid Electrolyte Interphase on Li Metal Anode: Structural Uniformity or Mechanical Strength?. <i>Advanced Energy Materials</i> , 2020 , 10, 1903645	21.8	98
295	MoS ₂ /reduced graphene oxide hybrid with CdS nanoparticles as a visible light-driven photocatalyst for the reduction of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2016 , 309, 173-9	12.8	89
294	Collision Frequencies between Fractal Aggregates and Small Particles in a Turbulently Sheared Fluid. <i>Environmental Science & Technology</i> , 1997 , 31, 1237-1242	10.3	88
293	Chemical oxidative degradation of methyl tert-butyl ether in aqueous solution by Fenton's reagent. <i>Chemosphere</i> , 2004 , 55, 73-9	8.4	88
292	Antibiotic resistome in landfill leachate from different cities of China deciphered by metagenomic analysis. <i>Water Research</i> , 2018 , 134, 126-139	12.5	83
291	Settling velocities and permeabilities of microbial aggregates. <i>Water Research</i> , 2002 , 36, 3110-20	12.5	83
290	Mechanical metamaterials: Smaller and stronger. <i>Nature Materials</i> , 2016 , 15, 373-4	27	82
289	Three-step effluent chlorination increases disinfection efficiency and reduces DBP formation and toxicity. <i>Chemosphere</i> , 2017 , 168, 1302-1308	8.4	80

288	Lightweight, flaw-tolerant, and ultrastrong nanoarchitected carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6665-6672	11.5	80
287	In situ embedment and growth of anhydrous and hydrated aluminum oxide particles on polyvinylidene fluoride (PVDF) membranes. <i>Journal of Membrane Science</i> , 2011 , 368, 134-143	9.6	78
286	Antibiotic resistome in a large-scale healthy human gut microbiota deciphered by metagenomic and network analyses. <i>Environmental Microbiology</i> , 2018 , 20, 355-368	5.2	78
285	Degradation of melatonin by UV, UV/H ₂ O ₂ , Fe ²⁺ /H ₂ O ₂ and UV/Fe ²⁺ /H ₂ O ₂ processes. <i>Separation and Purification Technology</i> , 2009 , 68, 261-266	8.3	72
284	The quorum-sensing effect of aerobic granules on bacterial adhesion, biofilm formation, and sludge granulation. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 789-97	5.7	70
283	Modeling particle-size distribution dynamics in a flocculation system. <i>AIChE Journal</i> , 2003 , 49, 1870-1882	3.6	67
282	Cytochrome cd1-containing nitrite reductase encoding gene nirS as a new functional biomarker for detection of anaerobic ammonium oxidizing (Anammox) bacteria. <i>Environmental Science & Technology</i> , 2011 , 45, 3547-53	10.3	66
281	Three-Dimensional High-Entropy Alloy-Polymer Composite Nanolattices That Overcome the Strength-Recoverability Trade-off. <i>Nano Letters</i> , 2018 , 18, 4247-4256	11.5	65
280	Performance of nanofiltration membrane in rejecting trace organic compounds: Experiment and model prediction. <i>Desalination</i> , 2015 , 370, 7-16	10.3	64
279	Effect of the food-to-microorganism (F/M) ratio on the formation and size of aerobic sludge granules. <i>Process Biochemistry</i> , 2011 , 46, 2269-2276	4.8	64
278	Effect of coagulant on acidogenic fermentation of sludge from enhanced primary sedimentation for resource recovery: Comparison between FeCl ₃ and PACl. <i>Chemical Engineering Journal</i> , 2017 , 325, 681-689	14.7	64
277	Two-step chlorination: A new approach to disinfection of a primary sewage effluent. <i>Water Research</i> , 2017 , 108, 339-347	12.5	61
276	Characterization of soluble microbial products as precursors of disinfection byproducts in drinking water supply. <i>Science of the Total Environment</i> , 2014 , 472, 818-24	10.2	55
275	Photocatalytic hydrogen generation with simultaneous organic degradation by composite CdS/ZnS nanoparticles under visible light. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13454-13461	6.7	55
274	Scalable Synthesis of 2D Si Nanosheets. <i>Advanced Materials</i> , 2017 , 29, 1701777	24	54
273	Size distributions and fractal properties of particles during a simulated phytoplankton bloom in a mesocosm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995 , 42, 125-138	2.3	54
272	Phosphorus Removal and Recovery from Wastewater using Fe-Dosing Bioreactor and Cofermentation: Investigation by X-ray Absorption Near-Edge Structure Spectroscopy. <i>Environmental Science & Technology</i> , 2018 , 52, 14119-14128	10.3	54
271	Nitrogen-doped microporous carbon: An efficient oxygen reduction catalyst for Zn-air batteries. <i>Journal of Power Sources</i> , 2017 , 359, 71-79	8.9	53

270	Physical and hydrodynamic properties of flocs produced during biological hydrogen production. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 854-60	4.9	51
269	Effect of N-acyl-homoserine lactones-like molecules from aerobic granules on biofilm formation by <i>Escherichia coli</i> K12. <i>Bioresource Technology</i> , 2013 , 129, 655-8	11	50
268	Granular activated carbon for aerobic sludge granulation in a bioreactor with a low-strength wastewater influent. <i>Separation and Purification Technology</i> , 2011 , 80, 276-283	8.3	50
267	Biodegradation and biotransformation of wastewater organics as precursors of disinfection byproducts in water. <i>Chemosphere</i> , 2010 , 81, 1075-83	8.4	50
266	Hydrodynamics of biological aggregates of different sludge ages: an insight into the mass transport mechanisms of bioaggregates. <i>Environmental Science & Technology</i> , 2003 , 37, 292-9	10.3	50
265	Degradation of 1,4-dioxane via controlled generation of radicals by pyrite-activated oxidants: Synergistic effects, role of disulfides, and activation sites. <i>Chemical Engineering Journal</i> , 2018 , 336, 416-426	14.7	49
264	Bending induced rippling and twisting of multiwalled carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 205502	7.4	49
263	Ultrahigh specific strength in a magnesium alloy strengthened by spinodal decomposition. <i>Science Advances</i> , 2021 , 7,	14.3	49
262	Selective sludge discharge as the determining factor in SBR aerobic granulation: numerical modelling and experimental verification. <i>Water Research</i> , 2009 , 43, 3387-96	12.5	48
261	A membrane bioreactor with iron dosing and acidogenic co-fermentation for enhanced phosphorus removal and recovery in wastewater treatment. <i>Water Research</i> , 2018 , 129, 402-412	12.5	48
260	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3624-3631	8.3	47
259	Effectiveness and Mechanisms of Defluorination of Perfluorinated Alkyl Substances by Calcium Compounds during Waste Thermal Treatment. <i>Environmental Science & Technology</i> , 2015 , 49, 5672-80	10.3	46
258	Complex microbial nitrogen-cycling networks in three distinct anammox-inoculated wastewater treatment systems. <i>Water Research</i> , 2020 , 168, 115142	12.5	46
257	Regain Strain-Hardening in High-Strength Metals by Nanofiller Incorporation at Grain Boundaries. <i>Nano Letters</i> , 2018 , 18, 6255-6264	11.5	46
256	Degradation of n-butyl benzyl phthalate using TiO ₂ /UV. <i>Journal of Hazardous Materials</i> , 2009 , 164, 527-32	12.8	45
255	Effects of pH adjustment on the hydrolysis of Al-enhanced primary sedimentation sludge for volatile fatty acid production. <i>Chemical Engineering Journal</i> , 2018 , 346, 50-56	14.7	44
254	Theoretical strength and rubber-like behaviour in micro-sized pyrolytic carbon. <i>Nature Nanotechnology</i> , 2019 , 14, 762-769	28.7	44
253	Recovery of phosphorus and volatile fatty acids from wastewater and food waste with an iron-flocculation sequencing batch reactor and acidogenic co-fermentation. <i>Bioresource Technology</i> , 2017 , 245, 615-624	11	44

252	Adsorption behaviour of dibutyl phthalate on marine sediments. <i>Marine Pollution Bulletin</i> , 2008 , 57, 403-407	6.7	44
251	Kinetics of n-butyl benzyl phthalate degradation by a pure bacterial culture from the mangrove sediment. <i>Journal of Hazardous Materials</i> , 2007 , 140, 194-9	12.8	44
250	Deciphering the mobility and bacterial hosts of antibiotic resistance genes under antibiotic selection pressure by metagenomic assembly and binning approaches. <i>Water Research</i> , 2020 , 186, 116318	12.5	44
249	Recovery of organic resources from sewage sludge of Al-enhanced primary sedimentation by alkali pretreatment and acidogenic fermentation. <i>Journal of Cleaner Production</i> , 2018 , 172, 3334-3341	10.3	44
248	Quorum quenching is responsible for the underestimated quorum sensing effects in biological wastewater treatment reactors. <i>Bioresource Technology</i> , 2014 , 171, 472-6	11	43
247	Synthesis of a sulfur-graphene composite as an enhanced metal-free photocatalyst. <i>Nano Research</i> , 2013 , 6, 286-292	10	43
246	PIV characterisation of flocculation dynamics and floc structure in water treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 379, 27-35	5.1	43
245	Acidogenic fermentation of iron-enhanced primary sedimentation sludge under different pH conditions for production of volatile fatty acids. <i>Chemosphere</i> , 2018 , 194, 692-700	8.4	43
244	Recovery of organic carbon and phosphorus from wastewater by Fe-enhanced primary sedimentation and sludge fermentation. <i>Process Biochemistry</i> , 2017 , 54, 135-139	4.8	42
243	Fracture, fatigue, and creep of nanotwinned metals. <i>MRS Bulletin</i> , 2016 , 41, 298-304	3.2	42
242	Visualisation and characterisation of biopolymer clusters in a submerged membrane bioreactor. <i>Journal of Membrane Science</i> , 2008 , 325, 691-697	9.6	40
241	A highly selective and sensitive fluorescent sensor for the rapid detection of Hg ²⁺ based on phenylamine-oligothiophene derivative. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 153, 143-6	4.4	39
240	Accuracy and application of quantitative X-ray diffraction on the precipitation of struvite product. <i>Water Research</i> , 2016 , 90, 9-14	12.5	39
239	Kinetic analysis on the two-step processes of AOB and NOB in aerobic nitrifying granules. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 1159-69	5.7	39
238	Synthesis and Catalytic Application in Hydrosilylation of the Complex mer-Hydrido(2-mercaptobenzoyl)tris(trimethylphosphine)cobalt(III). <i>Organometallics</i> , 2013 , 32, 5235-5238	3.8	38
237	Effects of seed sludge properties and selective biomass discharge on aerobic sludge granulation. <i>Chemical Engineering Journal</i> , 2010 , 160, 108-114	14.7	38
236	Aerobic sludge granulation facilitated by activated carbon for partial nitrification treatment of ammonia-rich wastewater. <i>Chemical Engineering Journal</i> , 2013 , 218, 253-259	14.7	37
235	Impact of salinity on cathode catalyst performance in microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13900-13906	6.7	37

234	Collision frequencies of microbial aggregates with small particles by differential sedimentation. <i>Environmental Science & Technology</i> , 2002 , 36, 387-93	10.3	36
233	Sorption Behavior of Bisphenol A and Triclosan by Graphene: Comparison with Activated Carbon. <i>ACS Omega</i> , 2017 , 2, 5378-5384	3.9	35
232	An innovative membrane bioreactor (MBR) system for simultaneous nitrogen and phosphorus removal. <i>Process Biochemistry</i> , 2013 , 48, 1749-1756	4.8	34
231	Buckled Tin Oxide Nanobelt Webs as Highly Stretchable and Transparent Photosensors. <i>Small</i> , 2015 , 11, 5712-8	11	34
230	Fate of aerobic bacterial granules with fungal contamination under different organic loading conditions. <i>Chemosphere</i> , 2010 , 78, 500-9	8.4	34
229	Disinfection characteristics of the dissolved organic fractions at several stages of a conventional drinking water treatment plant in Southern China. <i>Journal of Hazardous Materials</i> , 2009 , 172, 1093-9	12.8	34
228	Synthesis and Reactivity of N-Heterocyclic PSiP Pincer Iron and Cobalt Complexes and Catalytic Application of Cobalt Hydride in Kumada Coupling Reactions. <i>Organometallics</i> , 2016 , 35, 357-363	3.8	33
227	Genomic characterization, kinetics, and pathways of sulfamethazine biodegradation by <i>Paenarthrobacter</i> sp. A01. <i>Environment International</i> , 2019 , 131, 104961	12.9	33
226	Transition-Metal-Free Synthesis of Fluorinated Arenes from Perfluorinated Arenes Coupled with Grignard Reagents. <i>Organometallics</i> , 2014 , 33, 1079-1081	3.8	33
225	Cycling of a Lithium-Ion Battery with a Silicon Anode Drives Large Mechanical Actuation. <i>Advanced Materials</i> , 2016 , 28, 10236-10243	24	33
224	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. <i>Bioresource Technology</i> , 2019 , 287, 121424	11	32
223	Influence of a thin aluminum hydroxide coating layer on the suspension stability and reductive reactivity of nanoscale zero-valent iron. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 554-564	21.8	32
222	Probing the contribution of extracellular polymeric substance fractions to activated-sludge biofloculation using particle image velocimetry in combination with extended DLVO analysis. <i>Chemical Engineering Journal</i> , 2016 , 303, 627-635	14.7	32
221	Synthesis of [POCOP]-pincer iron and cobalt complexes via Csp ³ H activation and catalytic application of iron hydride in hydrosilylation reactions. <i>RSC Advances</i> , 2015 , 5, 15660-15667	3.7	32
220	Change in the fouling propensity of sludge in membrane bioreactors (MBR) in relation to the accumulation of biopolymer clusters. <i>Bioresource Technology</i> , 2011 , 102, 4718-25	11	32
219	Adsorption and Thermal Stabilization of Pb ²⁺ and Cu ²⁺ by Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8767-8773	3.9	32
218	Ultralight and resilient Al ₂ O ₃ nanotube aerogels with low thermal conductivity. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1677-1683	3.8	31
217	Quantification of the shear stresses in a microbial granular sludge reactor. <i>Water Research</i> , 2009 , 43, 4643-51	12.5	31

216	Determination of the fractal dimension of microbial flocs from the change in their size distribution after breakage. <i>Environmental Science & Technology</i> , 2005 , 39, 2731-5	10.3	31
215	Synthesis and Catalytic Activity of Iron Hydride Ligated with Bidentate N-Heterocyclic Silylenes for Hydroboration of Carbonyl Compounds. <i>Organometallics</i> , 2019 , 38, 268-277	3.8	31
214	Organic diagenesis in sediment and its impact on the adsorption of bisphenol A and nonylphenol onto marine sediment. <i>Marine Pollution Bulletin</i> , 2011 , 63, 578-82	6.7	30
213	Sorption behavior of bisphenol A on marine sediments. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008 , 43, 239-46	2.3	30
212	Influence of cations on the partition behavior of perfluoroheptanoate (PFHpA) and perfluorohexanesulfonate (PFHxS) on wastewater sludge. <i>Chemosphere</i> , 2015 , 131, 178-83	8.4	29
211	Effect of biopolymer clusters on the fouling property of sludge from a membrane bioreactor (MBR) and its control by ozonation. <i>Process Biochemistry</i> , 2011 , 46, 162-167	4.8	29
210	Electrochemical Generation of Ozone in a Membrane Electrode Assembly Cell with Convective Flow. <i>Journal of the Electrochemical Society</i> , 2009 , 156, E75	3.9	29
209	Design, Fabrication, and Mechanics of 3D Micro-/Nanolattices. <i>Small</i> , 2020 , 16, e1902842	11	29
208	Stability of sludge flocs under shear conditions. <i>Biochemical Engineering Journal</i> , 2008 , 38, 302-308	4.2	28
207	Effects of humic acid on physical and hydrodynamic properties of kaolin flocs by particle image velocimetry. <i>Water Research</i> , 2011 , 45, 3981-90	12.5	27
206	Insertion of Alkynes into Ni π Bonds: Synthesis of Novel Vinyl Nickel(II) and Dinuclear Vinyl Nickel(II) Complexes Containing a [P, S]-Ligand. <i>Organometallics</i> , 2007 , 26, 566-570	3.8	27
205	A review on the degradation efficiency, DBP formation, and toxicity variation in the UV/chlorine treatment of micropollutants. <i>Chemical Engineering Journal</i> , 2021 , 424, 130053	14.7	27
204	Determination of autoinducer-2 in biological samples by high-performance liquid chromatography with fluorescence detection using pre-column derivatization. <i>Journal of Chromatography A</i> , 2014 , 1361, 162-8	4.5	26
203	N ₂ Silylation Catalyzed by a Bis(silylene)-Based [SiCSi] Pincer Hydrido Iron(II) Dinitrogen Complex. <i>Organometallics</i> , 2020 , 39, 757-766	3.8	25
202	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , 2021 , 594, 57-61	50.4	25
201	Photocatalytic hydrogen generation with simultaneous organic degradation by a visible light-driven CdS/ZnS film catalyst. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 181, 86-92	3.1	24
200	Sorption behaviour of benzyl butyl phthalate on marine sediments: Equilibrium assessments, effects of organic carbon content, temperature and salinity. <i>Marine Chemistry</i> , 2009 , 115, 66-71	3.7	24
199	Simple Synthesis and Structure Characterization of a Stable Niobium(V) Phosphoniomethylidyne Complex. <i>Organometallics</i> , 2005 , 24, 4699-4701	3.8	24

198	Fabrication of sulfur-doped TiO ₂ nanotube array as a conductive interlayer of PbO ₂ anode for efficient electrochemical oxidation of organic pollutants. <i>Separation and Purification Technology</i> , 2021 , 258, 118035	8.3	24
197	Electro-fermentation of iron-enhanced primary sedimentation sludge in a two-chamber bioreactor for product separation and resource recovery. <i>Water Research</i> , 2019 , 157, 145-154	12.5	23
196	New insights into the chlorination of sulfonamide: Smiles-type rearrangement, desulfation, and product toxicity. <i>Chemical Engineering Journal</i> , 2018 , 331, 785-793	14.7	23
195	Mystery of the high chlorine consumption in disinfecting a chemically enhanced primary saline sewage. <i>Water Research</i> , 2018 , 145, 181-189	12.5	23
194	Improved longevity of nanoscale zero-valent iron with a magnesium hydroxide coating shell for the removal of Cr(VI) in sand columns. <i>Environment International</i> , 2019 , 133, 105249	12.9	23
193	Numerical simulation and experimental verification of particle coagulation dynamics for a pulsed input. <i>Journal of Colloid and Interface Science</i> , 2003 , 262, 149-61	9.3	23
192	Modelling particle size distribution dynamics in marine waters. <i>Water Research</i> , 2004 , 38, 1305-17	12.5	23
191	Microbial community composition and metabolic functions in landfill leachate from different landfills of China. <i>Science of the Total Environment</i> , 2021 , 767, 144861	10.2	23
190	Direct filtration for the treatment of the coagulated domestic sewage using flat-sheet ceramic membranes. <i>Chemosphere</i> , 2019 , 223, 383-390	8.4	22
189	Fractal dimensions of small (15000 m) particles in Eastern Pacific coastal waters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1998 , 45, 115-131	2.5	22
188	Encapsulating nanoscale zero-valent iron with a soluble Mg(OH) ₂ shell for improved mobility and controlled reactivity release. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2517-2526	13	22
187	Sonogashira reactions of alkyl halides catalyzed by NHC [CNN] pincer nickel(II) complexes. <i>New Journal of Chemistry</i> , 2018 , 42, 11465-11470	3.6	21
186	Acidogenic phosphorus recovery from the wastewater sludge of the membrane bioreactor systems with different iron-dosing modes. <i>Bioresour Technol</i> , 2019 , 280, 360-370	11	20
185	Synthesis of Iron Hydrides by Selective C-H/C-H Bond Activation in Fluoroarylimines and Their Applications in Catalytic Reduction Reactions. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 2732-2743	2.3	20
184	High-efficiency biodegradation of chloramphenicol by enriched bacterial consortia: Kinetics study and bacterial community characterization. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121344	12.8	20
183	Syntheses and catalytic application of hydrido iron(II) complexes with [P,S]-chelating ligands in hydrosilylation of aldehydes and ketones. <i>RSC Advances</i> , 2015 , 5, 52000-52006	3.7	19
182	Synthesis of NHC Pincer Hydrido Nickel Complexes and Their Catalytic Applications in Hydrodehalogenation. <i>Organometallics</i> , 2018 , 37, 539-544	3.8	19
181	Differential responses of ammonia/ammonium-oxidizing microorganisms in mangrove sediment to amendment of acetate and leaf litter. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 3165-80	5.7	19

180	Facile Synthesis of Bis(isoindolinone) through Carbonylative Cyclization and Dimerization of Phenylimine with Nickel(0) Complexes. <i>Organometallics</i> , 2008 , 27, 1944-1947	3.8	19
179	Fungal Cell Wall-Graphene Oxide Microcomposite Membrane for Organic Solvent Nanofiltration. <i>Advanced Functional Materials</i> , 2021 , 31, 2100110	15.6	19
178	Synthesis of silyl iron hydride via Si-H activation and its dual catalytic application in the hydrosilylation of carbonyl compounds and dehydration of benzamides. <i>Dalton Transactions</i> , 2018 , 47, 4352-4359	4.3	18
177	Polymerized titanium salts for municipal wastewater preliminary treatment followed by further purification via crossflow filtration for water reuse. <i>Separation and Purification Technology</i> , 2019 , 211, 207-217	8.3	18
176	Responses of microbial community and antibiotic resistance genes to the selection pressures of ampicillin, cephalixin and chloramphenicol in activated sludge reactors. <i>Science of the Total Environment</i> , 2021 , 755, 142632	10.2	18
175	Quantification of the lateral detachment force for bacterial cells using atomic force microscope and centrifugation. <i>Ultramicroscopy</i> , 2011 , 111, 131-9	3.1	17
174	Specific and effective detection of anammox bacteria using PCR primers targeting the 16S rRNA gene and functional genes. <i>Science of the Total Environment</i> , 2020 , 734, 139387	10.2	17
173	Highly selective, sensitive and fast-responsive fluorescent sensor for Hg(2+). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 163, 45-8	4.4	17
172	Watching Dynamic Self-Assembly of Web Buckles in Strained MoS Thin Films. <i>ACS Nano</i> , 2019 , 13, 3106-3116	3.1	17
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