

Xiao-yan Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

323
papers

12,947
citations

53
h-index

103
g-index

332
ext. papers

15,857
ext. citations

8.3
avg, IF

7.2
L-index

#	Paper	IF	Citations
323	Production of intracellular lipids from thermally hydrolyzed waste sludge by oleaginous yeast for energy and resource recovery. <i>Energy Conversion and Management</i> , 2022 , 252, 115129	10.6	0
322	Metal-organic framework-derived carbon nanotubes with multi-active Fe-N/Fe sites as a bifunctional electrocatalyst for zinc-air battery. <i>Journal of Energy Chemistry</i> , 2022 , 66, 306-313	12	12
321	[P, C] Chelate Cobalt(II)-Catalyzed Distinct Selective Hydrosilylation of Alkenes under Mild Conditions. <i>Organometallics</i> , 2022 , 41, 698-705	3.8	2
320	Tiered ecological risk assessment of nonylphenol and tetrabromobisphenol A in the surface waters of China based on the augmented species sensitivity distribution models.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 236, 113446	7	0
319	Eggshell membrane derived nitrogen rich porous carbon for selective electrosorption of nitrate from water.. <i>Water Research</i> , 2022 , 216, 118351	12.5	1
318	Enhanced production of short-chain fatty acids from sludge by thermal hydrolysis and acidogenic fermentation for organic resource recovery.. <i>Science of the Total Environment</i> , 2022 , 828, 154389	10.2	0
317	Understanding the influence of hydraulic conditions on colloidal fouling development by using the micro-patterned nanofiltration membrane: Experiments and numerical simulation. <i>Journal of Membrane Science</i> , 2022 , 654, 120559	9.6	0
316	Fabrication of SnO ₂ -Sb reactive membrane electrodes for high-efficiency electrochemical inactivation of bacteria and viruses in water. <i>Chemical Engineering Journal</i> , 2022 , 137327	14.7	1
315	Oxygen-vacancy-enriched substrate-less SnO _x /La-Sb anode for high-performance electrocatalytic oxidation of antibiotics in wastewater. <i>Journal of Hazardous Materials</i> , 2022 , 436, 129212	12.8	0
314	Synthesis of silyl iron dinitrogen complexes for activation of dihydrogen and catalytic silylation of dinitrogen. <i>Dalton Transactions</i> , 2021 , 50, 17594-17602	4.3	1
313	Fungal hypha-derived freestanding porous carbon pad as a high-capacity electrode for water desalination in membrane capacitive deionization. <i>Chemical Engineering Journal</i> , 2021 , 433, 133781	14.7	3
312	A novel NH ₂ -MIL-88B(Fe)-modified ceramic membrane for the integration of electro-Fenton and filtration processes: A case study on naproxen degradation. <i>Chemical Engineering Journal</i> , 2021 , 133547	14.7	4
311	New insights into thiamphenicol biodegradation mechanism by <i>Sphingomonas</i> sp. CL5.1 deciphered through metabolic and proteomic analysis.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128101	12.8	1
310	Built from connected nested tubes. <i>Nature Materials</i> , 2021 , 20, 1453-1454	27	1
309	Comparison of chemical and biological degradation of sulfonamides: Solving the mystery of sulfonamide transformation. <i>Journal of Hazardous Materials</i> , 2021 , 127661	12.8	6
308	Anomalous strain effect on the thermal conductivity of low-buckled two-dimensional silicene. <i>National Science Review</i> , 2021 , 8, nwaa220	10.8	4
307	Fungal Cell Wall-Graphene Oxide Microcomposite Membrane for Organic Solvent Nanofiltration. <i>Advanced Functional Materials</i> , 2021 , 31, 2100110	15.6	19

306	Nickel-Catalyzed Sonogashira Coupling Reactions of Nonactivated Alkyl Chlorides under Mild Conditions. <i>Organometallics</i> , 2021 , 40, 2240-2245	3.8	1
305	Continuous Roll-to-Roll Production of Carbon Nanoparticles from Candle Soot. <i>Nano Letters</i> , 2021 , 21, 3198-3204	11.5	16
304	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. <i>Water Research</i> , 2021 , 191, 116798	12.5	14
303	Structural Defects, Mechanical Behaviors, and Properties of Two-Dimensional Materials. <i>Materials</i> , 2021 , 14,	3.5	7
302	Selectivity Reverse of Hydrosilylation of Aryl Alkenes Realized by Pyridine N-Oxide with [PSiP] Pincer Cobalt(III) Hydride as Catalyst. <i>Inorganic Chemistry</i> , 2021 , 60, 4551-4562	5.1	6
301	Hydrothermal treatment and biorefinery of sewage sludge for waste reduction and production of fungal hyphae fibers and volatile fatty acids. <i>Journal of Cleaner Production</i> , 2021 , 289, 125715	10.3	1
300	Deformation Mechanisms and Remarkable Strain Hardening in Single-Crystalline High-Entropy-Alloy Micropillars/Nanopillars. <i>Nano Letters</i> , 2021 , 21, 3671-3679	11.5	11
299	Surfactant-assisted thermal hydrolysis of waste activated sludge for improved dewaterability, organic release, and volatile fatty acid production. <i>Waste Management</i> , 2021 , 124, 339-347	8.6	7
298	Recovery of Phosphorus from Wastewater and Sludge 2021 , 305-338		
297	Hydrophobic Surface Coating Can Reduce Toxicity of Zinc Oxide Nanoparticles to the Marine Copepod. <i>Environmental Science & Technology</i> , 2021 , 55, 6917-6925	10.3	5
296	Substitution of quartz and clay with fly ash in the production of architectural ceramics: A mechanistic study. <i>Ceramics International</i> , 2021 , 47, 12514-12525	5.1	5
295	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
294	Synthesis and catalytic activity of N-heterocyclic silylene (NHSi) iron (II) hydride for hydrosilylation of aldehydes and ketones. <i>Applied Organometallic Chemistry</i> , 2021 , 35, e6286	3.1	0
293	Mechanism of pre-ozonation in control of protein fouling of ultrafiltration membranes: Synergistic effect between ozone oxidation and aeration. <i>Journal of Water Process Engineering</i> , 2021 , 41, 102038	6.7	7
292	Ultrahigh specific strength in a magnesium alloy strengthened by spinodal decomposition. <i>Science Advances</i> , 2021 , 7,	14.3	49
291	A comparison of effect mechanisms of chlorination and ozonation on the interfacial forces of protein at membrane surfaces and the implications for membrane fouling control. <i>Journal of Membrane Science</i> , 2021 , 628, 119266	9.6	0
290	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , 2021 , 594, 57-61	50.4	25
289	Iron-enhanced primary sedimentation and acidogenic sludge fermentation to achieve self-sufficient organic carbon supply for enhanced nutrient removal in wastewater treatment?. <i>Resources, Conservation and Recycling</i> , 2021 , 164, 105220	11.9	0

288	Reponses of microbial community and antibiotic resistance genes to the selection pressures of ampicillin, cephalexin and chloramphenicol in activated sludge reactors. <i>Science of the Total Environment</i> , 2021 , 755, 142632	10.2	18
287	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
286	Thermal Hydrolysis of Wastewater Sludge Followed by Fungal Fermentation for Organic Recovery and Hyphae Fiber Production. <i>Engineering</i> , 2021 , 7, 203-211	9.7	7
285	Occurrence and emission of phthalates, bisphenol A, and oestrogenic compounds in concentrated animal feeding operations in Southern China. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 207, 111521	7	4
284	Simultaneous occurrence and analysis of both anammox and n-damo bacteria in five full-scale wastewater treatment plants. <i>International Biodeterioration and Biodegradation</i> , 2021 , 156, 105112	4.8	9
283	Dynamic recrystallization-induced temperature insensitivity of yield stress in single-crystal Al _{1.2} CrFeCoNi micropillars. <i>Science China Technological Sciences</i> , 2021 , 64, 11-22	3.5	11
282	Progress in the preparation and characterization of silylene iron, cobalt and nickel complexes. <i>Dalton Transactions</i> , 2021 , 50, 6766-6772	4.3	3
281	Diversity, abundance, and distribution of anammox bacteria in shipping channel sediment of Hong Kong by analysis of DNA and RNA. <i>Ecotoxicology</i> , 2021 , 30, 1705-1718	2.9	0
280	Influence of load orientations with respect to twin boundaries on the deformation behaviors of high-entropy alloy nanocrystals. <i>MRS Bulletin</i> , 2021 , 46, 205-216	3.2	3
279	Effective suppression of concentration polarization by nanofiltration membrane surface pattern manipulation: Numerical modeling based on LIF visualization. <i>Journal of Membrane Science</i> , 2021 , 622, 119021	9.6	5
278	Mitigation mechanism of ozonation in the casein fouling of ultrafiltration membranes: Possible application in dairy wastewater treatment. <i>Journal of Membrane Science</i> , 2021 , 629, 119307	9.6	4
277	Toughening and Crack Healing Mechanisms in Nanotwinned Diamond Composites with Various Polytypes. <i>Physical Review Letters</i> , 2021 , 127, 066101	7.4	2
276	[P,C]-Chelate Cobalt(III) Hydride Catalyzed Hydrosilylation of Alkenes. <i>Organometallics</i> , 2021 , 40, 2836-2843	3.8	4
275	Using general computational chemistry strategy to unravel the reactivity of emerging pollutants: An example of sulfonamide chlorination. <i>Water Research</i> , 2021 , 202, 117391	12.5	3
274	Exploring the influence mechanism of ozonation on protein fouling of ultrafiltration membranes as a result of the interfacial interaction of foulants at the membrane surface. <i>Science of the Total Environment</i> , 2021 , 785, 147340	10.2	7
273	Freestanding 3-dimensional macro-porous SnO ₂ electrodes for efficient electrochemical degradation of antibiotics in wastewater. <i>Chemical Engineering Journal</i> , 2021 , 422, 130032	14.7	5
272	Fabrication of conductive ceramic membranes for electrically assisted fouling control during membrane filtration for wastewater treatment. <i>Chemosphere</i> , 2021 , 280, 130794	8.4	11
271	Confining polyacrylic acid on the surface of nanoscale zero-valent iron by aluminum hydroxide for in-situ anti-passivation. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126649	12.8	1

270	Use of a packed-bed biofilm reactor to achieve rapid formation of anammox biofilms for high-rate nitrogen removal. <i>Journal of Cleaner Production</i> , 2021 , 321, 128999	10.3	4
269	Using anammox biofilms for rapid start-up of partial nitrification-anammox in integrated fixed-film activated sludge for autotrophic nitrogen removal. <i>Science of the Total Environment</i> , 2021 , 791, 148314	10.2	4
268	Metagenomics analysis revealing the occurrence of antibiotic resistome in salt lakes. <i>Science of the Total Environment</i> , 2021 , 790, 148262	10.2	3
267	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
266	Contactless membrane distillation for effective ammonia recovery from waste sludge: A new configuration and mass transfer mechanism. <i>Journal of Membrane Science</i> , 2021 , 638, 119733	9.6	0
265	Fabrication of a permeable SnO-Sb reactive anodic filter for high-efficiency electrochemical oxidation of antibiotics in wastewater. <i>Environment International</i> , 2021 , 157, 106827	12.9	5
264	Bi-metal oxide-modified flat-sheet ceramic membranes for catalytic ozonation of organic pollutants in wastewater treatment. <i>Chemical Engineering Journal</i> , 2021 , 426, 131263	14.7	10
263	Solvent-Free Hydrosilylation of Alkenes Catalyzed by Well-Defined Low-Valent Cobalt Catalysts. <i>Organometallics</i> , 2021 , 40, 286-293	3.8	3
262	Which Micropollutants in Water Environments Deserve More Attention Globally?. <i>Environmental Science & Technology</i> , 2021 ,	10.3	14
261	Production of carbon-doped titanium dioxide (C ₁₀ TiO ₂) from polytitanium-coagulated sludge as an adsorbent or photocatalyst for pollutant removals. <i>Journal of Cleaner Production</i> , 2020 , 267, 121979	10.3	12
260	Atomistic mechanism of nucleation and growth of a face-centered orthogonal phase in small-sized single-crystalline Mo. <i>Materials Research Letters</i> , 2020 , 8, 348-355	7.4	8
259	[CNC]-Pincer Cobalt Hydride Catalyzed Distinct Selective Hydrosilylation of Aryl Alkene and Alkyl Alkene. <i>Organometallics</i> , 2020 , 39, 2455-2463	3.8	11
258	Pyridine N-oxide promoted hydrosilylation of carbonyl compounds catalyzed by [PSiP]-pincer iron hydrides. <i>Dalton Transactions</i> , 2020 , 49, 9349-9354	4.3	3
257	Solid Electrolyte Interphase: The Failure of Solid Electrolyte Interphase on Li Metal Anode: Structural Uniformity or Mechanical Strength? (Adv. Energy Mater. 10/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070045	21.8	0
256	Transformation of Fe-P Complexes in Bioreactors and P Recovery from Sludge: Investigation by XANES Spectroscopy. <i>Environmental Science & Technology</i> , 2020 , 54, 4641-4650	10.3	12
255	An Air-Stable N-Heterocyclic [PSiP] Pincer Iron Hydride and an Analogous Nitrogen Iron Hydride: Synthesis and Catalytic Dehydration of Primary Amides to Nitriles. <i>Organometallics</i> , 2020 , 39, 824-833	3.8	10
254	Fabrication of reactive flat-sheet ceramic membranes for oxidative degradation of ofloxacin by peroxymonosulfate. <i>Journal of Membrane Science</i> , 2020 , 611, 118302	9.6	16
253	Mechanical properties and deformation mechanisms of gradient nanostructured metals and alloys. <i>Nature Reviews Materials</i> , 2020 , 5, 706-723	73.3	126

252	Removal of emerging contaminants from wastewater during chemically enhanced primary sedimentation and acidogenic sludge fermentation. <i>Water Research</i> , 2020 , 175, 115646	12.5	13
251	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
250	E-Selective Hydrothiolation of Terminal Aryllallenes with Arylthiols Catalyzed by Ni (PMe ₃) ₄ . <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5291	3.1	
249	Lewis acid promoted dehydration of amides to nitriles catalyzed by [PSiP]-pincer iron hydrides. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5466	3.1	10
248	Ferric Uptake Regulator Provides a New Strategy for Acidophile Adaptation to Acidic Ecosystems. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	9
247	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
246	Characterization and mitigation of the fouling of flat-sheet ceramic membranes for direct filtration of the coagulated domestic wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121557	12.8	15
245	Design, Fabrication, and Mechanics of 3D Micro-/Nanolattices. <i>Small</i> , 2020 , 16, e1902842	11	29
244	Efficient dehydration of primary amides to nitriles catalyzed by phosphorus-chalcogen chelated iron hydrides. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5337	3.1	5
243	The characteristics of oestrone mobility in water and soil by the addition of Ca-biochar and Fe-Mn-biochar derived from Litchi chinensis Sonn. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 1601-1615	4.7	5
242	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
241	Deep insights into the green nitrogen removal by anammox in four full-scale WWTPs treating landfill leachate based on 16S rRNA gene and transcripts by 16S rRNA high-throughput sequencing. <i>Journal of Cleaner Production</i> , 2020 , 276, 124176	10.3	14
240	The Effect of Substituents on the Formation of Silyl [PSiP] Pincer Cobalt(I) Complexes and Catalytic Application in Both Nitrogen Silylation and Alkene Hydrosilylation. <i>Inorganic Chemistry</i> , 2020 , 59, 16489-16499	5.1	9
239	Chloramphenicol biodegradation by enriched bacterial consortia and isolated strain <i>Sphingomonas</i> sp. CL5.1: The reconstruction of a novel biodegradation pathway. <i>Water Research</i> , 2020 , 187, 116397	12.5	11
238	Selective Ammonium Removal from Synthetic Wastewater by Flow-Electrode Capacitive Deionization Using a Novel KTiO-Activated Carbon Mixture Electrode. <i>Environmental Science & Technology</i> , 2020 , 54, 12723-12731	10.3	7
237	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
236	Chemically enhanced primary sedimentation and acidogenesis of organics in sludge for enhanced nitrogen removal in wastewater treatment. <i>Journal of Cleaner Production</i> , 2020 , 244, 118705	10.3	11
235	Complex microbial nitrogen-cycling networks in three distinct anammox-inoculated wastewater treatment systems. <i>Water Research</i> , 2020 , 168, 115142	12.5	46

234	Micro-/Nanolattices: Design, Fabrication, and Mechanics of 3D Micro-/Nanolattices (Small 15/2020). <i>Small</i> , 2020 , 16, 2070084	11	
233	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
232	In Situ Visualization of Concentration Polarization during Membrane Ultrafiltration Using Microscopic Laser-Induced Fluorescence. <i>Environmental Science & Technology</i> , 2019 , 53, 2660-2669	10.3	12
231	Effects of phase transformation on properties of alumina ceramic membrane: A new assessment based on quantitative X-ray diffraction (QXRD). <i>Chemical Engineering Science</i> , 2019 , 199, 349-358	4.4	7
230	Direct photo transformation of tetracycline and sulfanamide group antibiotics in surface water: Kinetics, toxicity and site modeling. <i>Science of the Total Environment</i> , 2019 , 686, 1-9	10.2	15
229	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
228	Transfer hydrogenation of ketones catalyzed by nickel complexes bearing an NHC [CNN] pincer ligand. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4932	3.1	10
227	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
226	Retinoids and oestrogenic endocrine disrupting chemicals in saline sewage treatment plants: Removal efficiencies and ecological risks to marine organisms. <i>Environment International</i> , 2019 , 127, 103-113	12.9	13
225	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
224	Acidogenic phosphorus recovery from the wastewater sludge of the membrane bioreactor systems with different iron-dosing modes. <i>Bioresource Technology</i> , 2019 , 280, 360-370	11	20
223	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
222	Genomic characterization, kinetics, and pathways of sulfamethazine biodegradation by <i>Paenarthrobacter</i> sp. A01. <i>Environment International</i> , 2019 , 131, 104961	12.9	33
221	Theoretical strength and rubber-like behaviour in micro-sized pyrolytic carbon. <i>Nature Nanotechnology</i> , 2019 , 14, 762-769	28.7	44
220	Passage and community changes of filterable bacteria during microfiltration of a surface water supply. <i>Environment International</i> , 2019 , 131, 104998	12.9	8
219	Effects of dechlorination conditions on the developmental toxicity of a chlorinated saline primary sewage effluent: Excessive dechlorination is better than not enough. <i>Science of the Total Environment</i> , 2019 , 692, 117-126	10.2	16
218	Topological Design of Graphene 2019 , 1-44		2
217	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

216	Watching Dynamic Self-Assembly of Web Buckles in Strained MoS Thin Films. <i>ACS Nano</i> , 2019 , 13, 3106-3116	16.6	17
215	Controllable synthesis of carbon nanosheets derived from oxidative polymerisation of m-phenylenediamine. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 437-444	9.3	4
214	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
213	Laser induced fluorescence (LIF) technique visualizes and characterizes concentration polarization and fouling layer in the cross-flow nanofiltration. <i>Separation and Purification Technology</i> , 2019 , 212, 520-527	8.3	3
212	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
211	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
210	Occurrence and fate of PPCPs in typical drinking water treatment plants in China. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 5-15	4.7	13
209	Effect of the shape change on the mass transport of bio-flocs in water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 544, 144-151	5.1	1
208	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
207	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
206	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
205	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
204	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
203	Synthesis of NHC Pincer Hydrido Nickel Complexes and Their Catalytic Applications in Hydrodehalogenation. <i>Organometallics</i> , 2018 , 37, 539-544	3.8	19
202	Phosphine-assisted C-H bond activation in Schiff bases and formation of novel organo cobalt complexes bearing Schiff base ligands. <i>New Journal of Chemistry</i> , 2018 , 42, 4646-4652	3.6	1
201	Oil/molten salt interfacial synthesis of hybrid thin carbon nanostructures and their composites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4988-4996	13	15
200	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
199	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

198	Core-shell structured mZVI/Ca(OH) particle: Morphology, aggregation and corrosion. <i>Journal of Colloid and Interface Science</i> , 2018 , 510, 199-206	9.3	5
197	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
196	Calcium hydroxide coating on highly reactive nanoscale zero-valent iron for in situ remediation application. <i>Chemosphere</i> , 2018 , 207, 715-724	8.4	3
195	Acidogenic sludge fermentation to recover soluble organics as the carbon source for denitrification in wastewater treatment: Comparison of sludge types. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	13
194	Fermentation liquor of CaO treated chemically enhanced primary sedimentation (CEPS) sludge for bioplastic biosynthesis. <i>Science of the Total Environment</i> , 2018 , 644, 547-555	10.2	13
193	Two identical copies of the hydrazine synthase gene clusters found in the genomes of anammox bacteria. <i>International Biodeterioration and Biodegradation</i> , 2018 , 132, 236-240	4.8	10
192	An integrated membrane bioreactor system with iron-dosing and side-stream co-fermentation for enhanced nutrient removal and recovery: System performance and microbial community analysis. <i>Bioresour Technol</i> , 2018 , 260, 248-255	11	15
191	Preparation of hydrido [CNC]-pincer cobalt complexes via selective C _H /C _H bond activation and their catalytic performances. <i>New Journal of Chemistry</i> , 2018 , 42, 15578-15586	3.6	5
190	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
189	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
188	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
187	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
186	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
185	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
184	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
183	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
182	Occurrence and Fate of Ultramicrobacteria in a Full-Scale Drinking Water Treatment Plant. <i>Frontiers in Microbiology</i> , 2018 , 9, 2922	5.7	5
181	Nanoscale Zero-Valent Iron Coated with Magnesium Hydroxide for Effective Removal of Cyanobacteria from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15135-15142	8.3	13

180	High-content ductile coherent nanoprecipitates achieve ultrastrong high-entropy alloys. <i>Nature Communications</i> , 2018 , 9, 4063	17.4	218
179	Microstructure- and concentration-dependence of lithium diffusion in the silicon anode: Kinetic Monte Carlo simulations and complex network analysis. <i>Applied Physics Letters</i> , 2018 , 113, 121904	3.4	10
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33	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
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