

# Jian-Long Wang

## List of Publications by Citations

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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.

616  
papers

32,002  
citations

88  
h-index

153  
g-index

635  
ext. papers

41,773  
ext. citations

7.6  
avg. IF

8.96  
L-index

#	Paper	IF	Citations
616	Biosorbents for heavy metals removal and their future. <i>Biotechnology Advances</i> , <b>2009</b> , 27, 195-226	17.8	1773
615	Activation of persulfate (PS) and peroxymonosulfate (PMS) and application for the degradation of emerging contaminants. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 1502-1517	14.7	1422
614	Biosorption of heavy metals by <i>Saccharomyces cerevisiae</i> : a review. <i>Biotechnology Advances</i> , <b>2006</b> , 24, 427-51	17.8	919
613	Magnetic nanoscaled Fe <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> composite as an efficient Fenton-like heterogeneous catalyst for degradation of 4-chlorophenol. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 10145-53	10.3	772
612	Removal of pharmaceuticals and personal care products (PPCPs) from wastewater: A review. <i>Journal of Environmental Management</i> , <b>2016</b> , 182, 620-640	7.9	732
611	Preparation, modification and environmental application of biochar: A review. <i>Journal of Cleaner Production</i> , <b>2019</b> , 227, 1002-1022	10.3	587
610	A heterogeneous Fenton-like system with nanoparticulate zero-valent iron for removal of 4-chloro-3-methyl phenol. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 256-64	12.8	434
609	Adsorption kinetic models: Physical meanings, applications, and solving methods. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 390, 122156	12.8	394
608	Chitosan-based biosorbents: modification and application for biosorption of heavy metals and radionuclides. <i>Bioresource Technology</i> , <b>2014</b> , 160, 129-41	11	381
607	Degradation of antibiotics by advanced oxidation processes: An overview. <i>Science of the Total Environment</i> , <b>2020</b> , 701, 135023	10.2	348
606	Fe-based catalysts for heterogeneous catalytic ozonation of emerging contaminants in water and wastewater. <i>Chemical Engineering Journal</i> , <b>2017</b> , 312, 79-98	14.7	347
605	Competitive adsorption of Pb(II), Cu(II) and Zn(II) onto xanthate-modified magnetic chitosan. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 221-222, 155-61	12.8	315
604	Adsorption isotherm models: Classification, physical meaning, application and solving method. <i>Chemosphere</i> , <b>2020</b> , 258, 127279	8.4	277
603	Metal Organic Framework with Coordinatively Unsaturated Sites as Efficient Fenton-like Catalyst for Enhanced Degradation of Sulfamethazine. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 5367-5377	10.3	271
602	Comparison of different pretreatment methods for enriching hydrogen-producing bacteria from digested sludge. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2934-2941	6.7	262
601	Catalytic ozonation for water and wastewater treatment: Recent advances and perspective. <i>Science of the Total Environment</i> , <b>2020</b> , 704, 135249	10.2	257
600	Reactive species in advanced oxidation processes: Formation, identification and reaction mechanism. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126158	14.7	254

599	Biological nitrate removal from water and wastewater by solid-phase denitrification process. <i>Biotechnology Advances</i> , <b>2016</b> , 34, 1103-1112	17.8	253
598	Fenton-like degradation of 2,4-dichlorophenol using Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 123-124, 117-126	21.8	248
597	Degradation of sulfamethazine using FeO-MnO/reduced graphene oxide hybrid as Fenton-like catalyst. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 324, 653-664	12.8	234
596	The occurrence, distribution and degradation of antibiotics by ionizing radiation: An overview. <i>Science of the Total Environment</i> , <b>2019</b> , 646, 1385-1397	10.2	233
595	Irradiation treatment of pharmaceutical and personal care products (PPCPs) in water and wastewater: An overview. <i>Radiation Physics and Chemistry</i> , <b>2016</b> , 125, 56-64	2.5	221
594	Covalent organic frameworks (COFs) for environmental applications. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 400, 213046	23.2	198
593	The chemical behaviors of microplastics in marine environment: A review. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 142, 1-14	6.7	197
592	Occurrence and fate of antibiotics, antibiotic resistant genes (ARGs) and antibiotic resistant bacteria (ARB) in municipal wastewater treatment plant: An overview. <i>Science of the Total Environment</i> , <b>2020</b> , 744, 140997	10.2	184
591	Removal of various pollutants from water and wastewater by modified chitosan adsorbents. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 2331-2386	11.1	177
590	Zn-Fe-CNTs catalytic in situ generation of HO for Fenton-like degradation of sulfamethoxazole. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 166-176	12.8	172
589	A general kinetic model for adsorption: Theoretical analysis and modeling. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 288, 111100	6	166
588	Degradation of sulfamethazine by gamma irradiation in the presence of hydrogen peroxide. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 250-251, 99-105	12.8	166
587	A self-standing nanoporous MoP <sub>2</sub> nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7169-7173	13	165
586	Activation of peroxymonosulfate by sludge-derived biochar for the degradation of triclosan in water and wastewater. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 350-358	14.7	165
585	Oxygen-Generating MnO <sub>2</sub> Nanodots-Anchored Versatile Nanoplatfom for Combined Chemo-Photodynamic Therapy in Hypoxic Cancer. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706375	15.6	164
584	One-pot synthesis of multifunctional magnetic ferrite/MoS <sub>2</sub> /Carbon dot nanohybrid adsorbent for efficient Pb(II) removal. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3893-3900	13	163
583	Kinetic models for fermentative hydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3313-3323	6.7	163
582	Removal of Pb <sup>2+</sup> , Ag <sup>+</sup> , Cs <sup>+</sup> and Sr <sup>2+</sup> from aqueous solution by brewery's waste biomass. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 151, 65-70	12.8	162

581	Comparison of reductive dechlorination of p-chlorophenol using Fe <sup>0</sup> and nanosized Fe <sup>0</sup> . <i>Journal of Hazardous Materials</i> , <b>2007</b> , 144, 334-9	12.8	156
580	Reduction of nitrate by zero valent iron (ZVI)-based materials: A review. <i>Science of the Total Environment</i> , <b>2019</b> , 671, 388-403	10.2	154
579	Microbial degradation of sulfamethoxazole in the environment. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 3573-3582	5.7	146
578	Treatment of coking wastewater by an advanced Fenton oxidation process using iron powder and hydrogen peroxide. <i>Chemosphere</i> , <b>2012</b> , 86, 409-14	8.4	141
577	Comparison of polyurethane foam and biodegradable polymer as carriers in moving bed biofilm reactor for treating wastewater with a low C/N ratio. <i>Chemosphere</i> , <b>2011</b> , 83, 63-8	8.4	137
576	Removal of Co <sup>2+</sup> from radioactive wastewater by polyvinyl alcohol (PVA)/chitosan magnetic composite. <i>Progress in Nuclear Energy</i> , <b>2014</b> , 71, 172-178	2.3	136
575	Application of radiation technology to sewage sludge processing: a review. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 143, 2-7	12.8	134
574	The simultaneous detection and removal of organophosphorus pesticides by a novel Zr-MOF based smart adsorbent. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2184-2192	13	132
573	Removal of radionuclide Sr <sup>2+</sup> ions from aqueous solution using synthesized magnetic chitosan beads. <i>Nuclear Engineering and Design</i> , <b>2012</b> , 242, 445-451	1.8	131
572	Peroxymonosulfate Activation by Fe-Co-O-Codoped Graphite Carbon Nitride for Degradation of Sulfamethoxazole. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 10361-10369	10.3	128
571	Wet-chemistry topotactic synthesis of bimetallic iron/nickel sulfide nanoarrays: an advanced and versatile catalyst for energy efficient overall water and urea electrolysis. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4346-4353	13	127
570	Fenton/Fenton-like processes with in-situ production of hydrogen peroxide/hydroxyl radical for degradation of emerging contaminants: Advances and prospects. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 404, 124191	12.8	126
569	Fermentative hydrogen production using various biomass-based materials as feedstock. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 92, 284-306	16.2	124
568	Effect of inorganic anions on the performance of advanced oxidation processes for degradation of organic contaminants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128392	14.7	123
567	Fenton-like degradation of sulfamethoxazole using Fe-based magnetic nanoparticles embedded into mesoporous carbon hybrid as an efficient catalyst. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 1085-1094	14.7	123
566	Treatment of petrochemical wastewater by microaerobic hydrolysis and anoxic/oxic processes and analysis of bacterial diversity. <i>Bioresource Technology</i> , <b>2015</b> , 196, 169-75	11	122
565	The application of graphene-based materials for the removal of heavy metals and radionuclides from water and wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 1042-1105	11.1	122
564	Denitrification performance and biofilm characteristics using biodegradable polymers PCL as carriers and carbon source. <i>Chemosphere</i> , <b>2013</b> , 91, 1310-6	8.4	118

563	Effect of Fe <sup>2+</sup> concentration on fermentative hydrogen production by mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1215-1220	6.7	117
562	N,S co-doped carbon dots based fluorescent "on-off-on" sensor for determination of ascorbic acid in common fruits. <i>Food Chemistry</i> , <b>2018</b> , 258, 214-221	8.5	116
561	Adsorption of diclofenac from aqueous solution using UiO-66-type metal-organic frameworks. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 354-362	14.7	115
560	Traditional NiCo <sub>2</sub> S <sub>4</sub> Phase with Porous Nanosheets Array Topology on Carbon Cloth: A Flexible, Versatile and Fabulous Electrocatalyst for Overall Water and Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5011-5020	8.3	114
559	Denitrification performance and microbial diversity in a packed-bed bioreactor using biodegradable polymer as carbon source and biofilm support. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 250-251, 431-8	12.8	114
558	Comparison of denitrification performance and microbial diversity using starch/polylactic acid blends and ethanol as electron donor for nitrate removal. <i>Bioresource Technology</i> , <b>2013</b> , 131, 33-9	11	110
557	Sorption of sulfamethoxazole onto six types of microplastics. <i>Chemosphere</i> , <b>2019</b> , 228, 300-308	8.4	109
556	Nitrogen removal using biodegradable polymers as carbon source and biofilm carriers in a moving bed biofilm reactor. <i>Chemical Engineering Journal</i> , <b>2011</b> , 170, 220-225	14.7	109
555	High effective adsorption/removal of illegal food dyes from contaminated aqueous solution by Zr-MOFs (UiO-67). <i>Food Chemistry</i> , <b>2018</b> , 254, 241-248	8.5	107
554	Effect and aftereffect of gamma radiation pretreatment on enzymatic hydrolysis of wheat straw. <i>Bioresource Technology</i> , <b>2008</b> , 99, 6240-5	11	107
553	Thermochemical conversion of low-lipid microalgae for the production of liquid fuels: challenges and opportunities. <i>RSC Advances</i> , <b>2015</b> , 5, 18673-18701	3.7	105
552	Catalytic ozonation of sulfamethazine using Ce <sub>0.1</sub> Fe <sub>0.9</sub> OOH as catalyst: Mineralization and catalytic mechanisms. <i>Chemical Engineering Journal</i> , <b>2016</b> , 300, 169-176	14.7	104
551	Kinetic and equilibrium of U(VI) adsorption onto magnetic amidoxime-functionalized chitosan beads. <i>Journal of Cleaner Production</i> , <b>2018</b> , 188, 655-661	10.3	103
550	Metal hexacyanoferrates-based adsorbents for cesium removal. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 374, 430-438	23.2	102
549	Effects of pH and temperature on isotherm parameters of chlorophenols biosorption to anaerobic granular sludge. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 145, 398-403	12.8	102
548	Influence of Ni(2+) concentration on biohydrogen production. <i>Bioresource Technology</i> , <b>2008</b> , 99, 8864-8	11	102
547	In situ prepared nano-crystalline TiO <sub>2</sub> /poly(methyl methacrylate) hybrid enhanced composite polymer electrolyte for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5955	13	101
546	Cadmium sorption by EPSs produced by anaerobic sludge under sulfate-reducing conditions. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 138, 589-93	12.8	101

545	Gamma radiation-induced degradation of p-nitrophenol (PNP) in the presence of hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) in aqueous solution. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 177, 1061-7	12.8	100
544	Immobilization of activated sludge using improved polyvinyl alcohol (PVA) gel. <i>Journal of Environmental Sciences</i> , <b>2007</b> , 19, 1293-7	6.4	100
543	Amino-Functionalized Al-MOF for Fluorescent Detection of Tetracyclines in Milk. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 1277-1283	5.7	100
542	Mechanism of Co(II) adsorption by zero valent iron/graphene nanocomposite. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 301, 286-96	12.8	97
541	Recent progress on upgrading of bio-oil to hydrocarbons over metal/zeolite bifunctional catalysts. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2385-2415	5.5	97
540	Removal of cesium ions from aqueous solutions using various separation technologies. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2019</b> , 18, 231-269	13.9	97
539	Sorption of cobalt to bone char: Kinetics, competitive sorption and mechanism. <i>Desalination</i> , <b>2009</b> , 249, 609-614	10.3	97
538	Versatile molybdenum disulfide based antibacterial composites for in vitro enhanced sterilization and in vivo focal infection therapy. <i>Nanoscale</i> , <b>2016</b> , 8, 11642-8	7.7	97
537	Principle and application of different pretreatment methods for enriching hydrogen-producing bacteria from mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 4804-4823	6.7	95
536	Electrochemical degradation of 4-chlorophenol using a novel Pd/C gas-diffusion electrode. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 77, 58-65	21.8	94
535	Covalent organic frameworks as efficient adsorbent for sulfamerazine removal from aqueous solution. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 383, 121126	12.8	93
534	Electrochemical reduction of CO <sub>2</sub> to formate in aqueous solution using electro-deposited Sn catalysts. <i>Chemical Engineering Journal</i> , <b>2016</b> , 293, 161-170	14.7	92
533	Treatment of radioactive wastewater using direct contact membrane distillation. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 261, 307-15	12.8	92
532	Biological denitrification using cross-linked starch/PCL blends as solid carbon source and biofilm carrier. <i>Bioresource Technology</i> , <b>2011</b> , 102, 8835-8	11	91
531	Adsorption of Sr(II) from water by mercerized bacterial cellulose membrane modified with EDTA. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 364, 645-653	12.8	91
530	Comparison of linearization methods for modeling the Langmuir adsorption isotherm. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 296, 111850	6	89
529	Sorption of antibiotics onto aged microplastics in freshwater and seawater. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 149, 110511	6.7	88
528	Advances in cement solidification technology for waste radioactive ion exchange resins: a review. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 135, 443-8	12.8	88



527	Internally extended growth of core-shell NH <sub>2</sub> -MIL-101(Al)@ZIF-8 nanoflowers for the simultaneous detection and removal of Cu(II). <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21029-21038	13	88
526	Influence of metal ionic characteristics on their biosorption capacity by <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 74, 911-7	5.7	85
525	Au Promoted Nickel-Iron Layered Double Hydroxide Nanoarrays: A Modular Catalyst Enabling High-Performance Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19807-19814	9.5	84
524	MOF-derived three-dimensional flower-like FeCu@C composite as an efficient Fenton-like catalyst for sulfamethazine degradation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122007	14.7	84
523	Performance and characteristics of an anaerobic baffled reactor. <i>Bioresource Technology</i> , <b>2004</b> , 93, 205-81	8.1	84
522	Various additives for improving dark fermentative hydrogen production: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 95, 130-146	16.2	83
521	Optimization of fermentative hydrogen production process using genetic algorithm based on neural network and response surface methodology. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 255-261	6.7	83
520	Heterotrophic nitrification and aerobic denitrification by a novel <i>Acinetobacter</i> sp. ND7 isolated from municipal activated sludge. <i>Bioresource Technology</i> , <b>2020</b> , 301, 122749	11	83
519	Nitrogen-doped graphene as peroxymonosulfate activator and electron transfer mediator for the enhanced degradation of sulfamethoxazole. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122041	14.7	81
518	Fermentative hydrogen production using pretreated microalgal biomass as feedstock. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 22	6.4	81
517	Dechlorination of pentachlorophenol using nanoscale Fe/Ni particles: role of nano-Ni and its size effect. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 180, 79-85	12.8	81
516	(Bio)degradation of glyphosate in water-sediment microcosms - A stable isotope co-labeling approach. <i>Water Research</i> , <b>2016</b> , 99, 91-100	12.5	81
515	Treatment and disposal of spent radioactive ion-exchange resins produced in the nuclear industry. <i>Progress in Nuclear Energy</i> , <b>2015</b> , 78, 47-55	2.3	80
514	Improving mechanisms of biohydrogen production from grass using zero-valent iron nanoparticles. <i>Bioresource Technology</i> , <b>2018</b> , 266, 413-420	11	80
513	Catalytic ozonation of sulfamethoxazole over FeO/CoO composites. <i>Chemosphere</i> , <b>2019</b> , 234, 14-24	8.4	79
512	Degradation of chlorophenols in aqueous solution by $\beta$ radiation. <i>Radiation Physics and Chemistry</i> , <b>2007</b> , 76, 1489-1492	2.5	79
511	Fe <sup>2+</sup> enhancing sulfamethazine degradation in aqueous solution by gamma irradiation. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 96, 81-87	2.5	78
510	Fluorometric determination of the antibiotic kanamycin by aptamer-induced FRET quenching and recovery between MoS <sub>2</sub> nanosheets and carbon dots. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 203-210	5.8	77

509	The characteristics and mechanism of Co(II) removal from aqueous solution by a novel xanthate-modified magnetic chitosan. <i>Nuclear Engineering and Design</i> , <b>2012</b> , 242, 452-457	1.8	77
508	Denitrification of groundwater using PHBV blends in packed bed reactors and the microbial diversity. <i>Chemosphere</i> , <b>2016</b> , 155, 463-470	8.4	76
507	Nanoscaled zero valent iron/graphene composite as an efficient adsorbent for Co(II) removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 474, 119-28	9.3	75
506	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. <i>Mikrochimica Acta</i> , <b>2017</b> , 185, 7	5.8	75
505	Broadband Phototransistor Based on CHNHPbI Perovskite and PbSe Quantum Dot Heterojunction. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 445-451	6.4	74
504	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1638-1646	5.1	74
503	Surface molecularly imprinted polymer capped Mn-doped ZnS quantum dots as a phosphorescent nanosensor for detecting patulin in apple juice. <i>Food Chemistry</i> , <b>2017</b> , 232, 145-154	8.5	73
502	Optimization of fermentative hydrogen production process by response surface methodology. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6976-6984	6.7	71
501	Denitrification using PBS as carbon source and biofilm support in a packed-bed bioreactor. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 333-9	5.1	70
500	Sorption of sulfamethazine onto different types of microplastics: A combined experimental and molecular dynamics simulation study. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 145, 547-554	6.7	69
499	Iron-copper bimetallic metal-organic frameworks for efficient Fenton-like degradation of sulfamethoxazole under mild conditions. <i>Chemosphere</i> , <b>2020</b> , 241, 125002	8.4	69
498	Conductive Leaflike Cobalt Metal-Organic Framework Nanoarray on Carbon Cloth as a Flexible and Versatile Anode toward Both Electrocatalytic Glucose and Water Oxidation. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 8422-8428	5.1	69
497	Trimethoprim degradation by Fenton and Fe(II)-activated persulfate processes. <i>Chemosphere</i> , <b>2018</b> , 191, 97-105	8.4	67
496	Carbamazepine degradation by gamma irradiation coupled to biological treatment. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 321, 639-646	12.8	67
495	Hydrogen-based membrane biofilm reactors for nitrate removal from water and wastewater. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 1-15	6.7	67
494	NH-MIL-53(Al) Metal-Organic Framework as the Smart Platform for Simultaneous High-Performance Detection and Removal of Hg. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 12573-12581	5.1	66
493	Biodegradation of phthalic acid esters by acclimated activated sludge. <i>Environment International</i> , <b>1996</b> , 22, 737-741	12.9	66
492	Radiation-induced degradation of sulfamethoxazole in the presence of various inorganic anions. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 688-696	14.7	66



491	Removal of diclofenac from surface water by electron beam irradiation combined with a biological aerated filter. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 105, 104-108	2.5	65
490	Changes in microbial community during biohydrogen production using gamma irradiated sludge as inoculum. <i>Bioresource Technology</i> , <b>2016</b> , 200, 217-22	11	64
489	Enriching hydrogen-producing bacteria from digested sludge by different pretreatment methods. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 13550-13556	6.7	63
488	Biodegradation of phthalic acid esters by immobilized microbial cells. <i>Environment International</i> , <b>1997</b> , 23, 775-782	12.9	63
487	Iron and sulfur co-doped graphite carbon nitride (FeOy/S-g-C3N4) for activating peroxymonosulfate to enhance sulfamethoxazole degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122836	14.7	63
486	Fe-based Fenton-like catalysts for water treatment: Preparation, characterization and modification. <i>Chemosphere</i> , <b>2021</b> , 276, 130177	8.4	63
485	Degradation of carbamazepine by radiation-induced activation of peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 595-601	14.7	62
484	Bioinspired foam with large 3D macropores for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16220-16227	13	62
483	Removal of Uranium from Aqueous Solution by Alginate Beads. <i>Nuclear Engineering and Technology</i> , <b>2017</b> , 49, 534-540	2.6	62
482	Removal of sulfamethazine antibiotics using CeFe-graphene nanocomposite as catalyst by Fenton-like process. <i>Journal of Environmental Management</i> , <b>2016</b> , 182, 284-291	7.9	62
481	Biological caproate production by <i>Clostridium kluyveri</i> from ethanol and acetate as carbon sources. <i>Bioresource Technology</i> , <b>2017</b> , 241, 638-644	11	61
480	Amorphous Fe/Mn bimetal-organic frameworks: outer and inner structural designs for efficient arsenic(III) removal. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2845-2854	13	61
479	Ultrasound combined with dilute acid pretreatment of grass for improvement of fermentative hydrogen production. <i>Bioresource Technology</i> , <b>2019</b> , 275, 10-18	11	61
478	Biohydrogen production using waste activated sludge disintegrated by gamma irradiation. <i>Applied Energy</i> , <b>2015</b> , 155, 434-439	10.7	60
477	Pretreatment of macroalgal <i>Laminaria japonica</i> by combined microwave-acid method for biohydrogen production. <i>Bioresource Technology</i> , <b>2018</b> , 268, 52-59	11	58
476	Denitrification performance and microbial diversity in a packed-bed bioreactor using PCL as carbon source and biofilm carrier. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 2725-33	5.7	58
475	Degradation of sulfamethoxazole by ionizing radiation: Kinetics and implications of additives. <i>Science of the Total Environment</i> , <b>2019</b> , 668, 67-73	10.2	57
474	Degradation of norfloxacin in aqueous solution by ionizing irradiation: Kinetics, pathway and biological toxicity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125095	14.7	57

473	Effect of ammonia concentration on fermentative hydrogen production by mixed cultures. <i>Bioresource Technology</i> , <b>2009</b> , 100, 1211-3	11	57
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471	Peroxymonosulfate activation by Co9S8@ S and N co-doped biochar for sulfamethoxazole degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 385, 123933	14.7	56
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466	Biodegradation of 2,4-dichlorophenol in sequencing batch reactors augmented with immobilized mixed culture. <i>Chemosphere</i> , <b>2003</b> , 50, 1069-74	8.4	54
465	Microbial community diversity during fermentative hydrogen production inoculating various pretreated cultures. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 13147-13156	6.7	53
464	The phenomenological mass transfer kinetics model for Sr sorption onto spheroids primary microplastics. <i>Environmental Pollution</i> , <b>2019</b> , 250, 737-745	9.3	53
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461	Highly sensitive furazolidone monitoring in milk by a signal amplified lateral flow assay based on magnetite nanoparticles labeled dual-probe. <i>Food Chemistry</i> , <b>2018</b> , 261, 131-138	8.5	51
460	Patulin removal from apple juice using a novel cysteine-functionalized metal-organic framework adsorbent. <i>Food Chemistry</i> , <b>2019</b> , 270, 1-9	8.5	51
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458	Heterogeneous Catalytic Conversion of Biobased Chemicals into Liquid Fuels in the Aqueous Phase. <i>ChemSusChem</i> , <b>2016</b> , 9, 1355-85	8.3	50
457	Adsorption of uranium (VI) by amidoxime modified multiwalled carbon nanotubes. <i>Progress in Nuclear Energy</i> , <b>2018</b> , 106, 79-86	2.3	49
456	Microbial degradation of pyridine by <i>Paracoccus</i> sp. isolated from contaminated soil. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 176, 220-5	12.8	49

455	Label-free strip sensor based on surface positively charged nitrogen-rich carbon nanoparticles for rapid detection of Salmonella enteritidis. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 132, 360-367	11.8	48
454	Biodegradation of typical pharmaceutical compounds by a novel strain Acinetobacter sp. <i>Journal of Environmental Management</i> , <b>2018</b> , 217, 240-246	7.9	48
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451	Degradation of macrolide antibiotic erythromycin and reduction of antimicrobial activity using persulfate activated by gamma radiation in different water matrices. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 156-166	14.7	48
450	Removal of strontium ions from simulated radioactive wastewater by vacuum membrane distillation. <i>Annals of Nuclear Energy</i> , <b>2017</b> , 103, 363-368	1.7	47
449	Removal of cobalt ions from aqueous solution by forward osmosis. <i>Separation and Purification Technology</i> , <b>2017</b> , 177, 8-20	8.3	47
448	Comparison of electrocatalytic reduction of CO <sub>2</sub> to HCOOH with different tin oxides on carbon nanotubes. <i>Electrochemistry Communications</i> , <b>2016</b> , 65, 9-13	5.1	47
447	Fermentative hydrogen production from sewage sludge. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 1219-1281	11.1	47
446	Degradation of 2,4,6-trichlorophenol using magnetic nanoscaled Fe <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> composite as a heterogeneous Fenton-like catalyst. <i>Separation and Purification Technology</i> , <b>2015</b> , 149, 255-264	8.3	47
445	Comparative study on sulfamethoxazole degradation by Fenton and Fe(II)-activated persulfate process. <i>RSC Advances</i> , <b>2017</b> , 7, 48670-48677	3.7	46
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443	Uranium removal by novel graphene oxide-immobilized Saccharomyces cerevisiae gel beads. <i>Journal of Environmental Radioactivity</i> , <b>2016</b> , 162-163, 134-145	2.4	46
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435	Co-fermentation of sewage sludge with ryegrass for enhancing hydrogen production: Performance evaluation and kinetic analysis. <i>Bioresource Technology</i> , <b>2017</b> , 243, 1027-1036	11	44
434	The formation and influence of hydrogen peroxide during ozonation of para-chlorophenol. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 141, 707-12	12.8	44
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430	Forward osmosis technology for water treatment: Recent advances and future perspectives. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124354	10.3	43
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428	Removal of Cs(I) from simulated radioactive wastewater by three forward osmosis membranes. <i>Chemical Engineering Journal</i> , <b>2018</b> , 344, 353-362	14.7	42
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425	Extraction and adsorption of U(VI) from aqueous solution using affinity ligand-based technologies: an overview. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2019</b> , 18, 437-452	13.9	42
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421	Degradation of sulfamethazine antibiotics using Fe <sub>3</sub> O <sub>4</sub> /Mn <sub>3</sub> O <sub>4</sub> nanocomposite as a Fenton-like catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 874-883	3.5	41
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4 <sup>11</sup>	Treatment of spent radioactive anionic exchange resins using Fenton-like oxidation process. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 733-740	14.7	38
4 <sup>10</sup>	Preparation of highly active and stable polyaniline-cobalt-carbon nanotube electrocatalyst for oxygen reduction reaction in polymer electrolyte membrane fuel cell. <i>Electrochimica Acta</i> , <b>2014</b> , 119, 144-154	6.7	38
4 <sup>09</sup>	An innovative reactor-type biosensor for BOD rapid measurement. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1705-9	11.8	38
4 <sup>08</sup>	Kinetics of phthalic acid ester degradation by acclimated activated sludge. <i>Process Biochemistry</i> , <b>1997</b> , 32, 567-571	4.8	38
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4 <sup>05</sup>	Simultaneous detection and removal of cobalt ions from aqueous solution by modified chitosan beads. <i>International Journal of Environmental Science and Technology</i> , <b>2018</b> , 15, 385-394	3.3	37
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341	Biological nitrate removal using wheat straw and PLA as substrate. <i>Environmental Technology (United Kingdom)</i> , <b>2012</b> , 33, 2369-74	2.6	27
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339	Degradation of 4-chlorophenol in aqueous solution by $\gamma$ -radiation and ozone oxidation. <i>Science in China Series B: Chemistry</i> , <b>2006</b> , 49, 186-192		27
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331	Review and comparison of various hydrogen production methods based on costs and life cycle impact assessment indicators. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 38612-38635	6.7	26
330	Optimization of Hydrogen Production by Response Surface Methodology Using $\gamma$ -Irradiated Sludge as Inoculum. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 4096-4103	4.1	26

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204	Adsorptive removal of plasticizer (dimethyl phthalate) and antibiotic (sulfamethazine) from municipal wastewater by magnetic carbon nanotubes. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 319, 114267	6	13

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197	Solidification of spent radioactive organic solvent by sulfoaluminate and Portland cements. <i>Journal of Nuclear Science and Technology</i> , <b>2015</b> , 52, 1362-1368	1	12
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195	Uranium biosorption by immobilized active yeast cells entrapped in calcium-alginate-PVA-GO-crosslinked gel beads. <i>Radiochimica Acta</i> , <b>2020</b> , 108, 273-286	1.9	12
194	Biosorption of Sr <sup>2+</sup> and Cs <sup>+</sup> onto <i>Undaria pinnatifida</i> : Isothermal titration calorimetry and molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 319, 114146	6	12
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