

Peike Cao

List of Publications by Year in descending order

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219
papers

16,050
citations

14655

66
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19190

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all docs

223
docs citations

223
times ranked

16874
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene oxide modified g-C ₃ N ₄ hybrid with enhanced photocatalytic capability under visible light irradiation. <i>Journal of Materials Chemistry</i> , 2012, 22, 2721-2726.	6.7	687
2	Facile Ammonia Synthesis from Electrocatalytic N ₂ Reduction under Ambient Conditions on N-Doped Porous Carbon. <i>ACS Catalysis</i> , 2018, 8, 1186-1191.	11.2	520
3	Enhanced anaerobic digestion of waste activated sludge digestion by the addition of zero valent iron. <i>Water Research</i> , 2014, 52, 242-250.	11.3	494
4	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. <i>Environmental Science & Technology</i> , 2019, 53, 2937-2947.	10.0	493
5	Efficient Electrochemical Reduction of Carbon Dioxide to Acetate on Nitrogen-Doped Nanodiamond. <i>Journal of the American Chemical Society</i> , 2015, 137, 11631-11636.	13.7	458
6	High-Yield Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction by Hierarchically Porous Carbon. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6837-6841.	13.8	419
7	Fabrication of atomic single layer graphitic-C ₃ N ₄ and its high performance of photocatalytic disinfection under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 46-50.	20.2	394
8	Uncovering the Key Role of the Fermi Level of the Electron Mediator in a Z-Scheme Photocatalyst by Detecting the Charge Transfer Process of WO ₃ -metal-gC ₃ N ₄ (Metal = Cu, Ag, Au). <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2111-2119.	8.0	334
9	Vertically Aligned Janus MXene-Based Aerogels for Solar Desalination with High Efficiency and Salt Resistance. <i>ACS Nano</i> , 2019, 13, 13196-13207.	14.6	280
10	Enhanced Photocatalytic H ₂ O ₂ Production over Carbon Nitride by Doping and Defect Engineering. <i>ACS Catalysis</i> , 2020, 10, 14380-14389.	11.2	265
11	Selective electroreduction of CO ₂ to acetone by single copper atoms anchored on N-doped porous carbon. <i>Nature Communications</i> , 2020, 11, 2455.	12.8	265
12	Towards engineering application: Potential mechanism for enhancing anaerobic digestion of complex organic waste with different types of conductive materials. <i>Water Research</i> , 2017, 115, 266-277.	11.3	254
13	Heterogeneous activation of peroxymonosulfate by LaCo _{1-x} Cu _x O ₃ perovskites for degradation of organic pollutants. <i>Journal of Hazardous Materials</i> , 2018, 353, 401-409.	12.4	249
14	Communities stimulated with ethanol to perform direct interspecies electron transfer for syntrophic metabolism of propionate and butyrate. <i>Water Research</i> , 2016, 102, 475-484.	11.3	241
15	CO ₂ Electroreduction at Low Overpotential on Oxide-Derived Cu/Carbons Fabricated from Metal Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5302-5311.	8.0	239
16	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Doped Nanodiamond. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15607-15611.	13.8	226
17	TiO ₂ ~Multiwalled Carbon Nanotube Heterojunction Arrays and Their Charge Separation Capability. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12987-12991.	3.1	222
18	Two-dimensional MoS ₂ : A promising building block for biosensors. <i>Biosensors and Bioelectronics</i> , 2017, 89, 56-71.	10.1	215

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19	Photocatalytic Oxidation of Aqueous Ammonia Using Atomic Single Layer Graphitic-C ₃ N ₄ . Environmental Science & Technology, 2014, 48, 11984-11990.	10.0	204
20	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen- Co-doped Nanodiamond. Angewandte Chemie, 2017, 129, 15813-15817.	2.0	196
21	Enhancement of Catalytic Activity Over the Iron-Modified Ce/TiO ₂ Catalyst for Selective Catalytic Reduction of NO _x with Ammonia. Journal of Physical Chemistry C, 2012, 116, 25319-25327.	3.1	189
22	Comparing the mechanisms of ZVI and Fe ₃ O ₄ for promoting waste-activated sludge digestion. Water Research, 2018, 144, 126-133.	11.3	179
23	Efficient Mineralization of Perfluorooctanoate by Electro-Fenton with H ₂ O ₂ Electro-generated on Hierarchically Porous Carbon. Environmental Science & Technology, 2015, 49, 13528-13533.	10.0	174
24	Improved Photocatalytic Performance of Heterojunction by Controlling the Contact Facet: High Electron Transfer Capacity between TiO ₂ and the {110} Facet of BiVO ₄ Caused by Suitable Energy Band Alignment. Advanced Functional Materials, 2015, 25, 3074-3080.	14.9	164
25	Roles of magnetite and granular activated carbon in improvement of anaerobic sludge digestion. Bioresource Technology, 2018, 249, 666-672.	9.6	163
26	Evaluation on direct interspecies electron transfer in anaerobic sludge digestion of microbial electrolysis cell. Bioresource Technology, 2016, 200, 235-244.	9.6	157
27	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. Nano Letters, 2018, 18, 5514-5521.	9.1	153
28	Construction of Z-Scheme g-C ₃ N ₄ /RGO/WO ₃ with in situ photoreduced graphene oxide as electron mediator for efficient photocatalytic degradation of ciprofloxacin. Chemosphere, 2019, 215, 444-453.	8.2	152
29	Adsorption of ciprofloxacin, bisphenol and 2-chlorophenol on electrospun carbon nanofibers: In comparison with powder activated carbon. Journal of Colloid and Interface Science, 2015, 447, 120-127.	9.4	142
30	Cobalt Nanoparticles Encapsulated in Porous Carbons Derived from Core-Shell ZIF67@ZIF8 as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 28685-28694.	8.0	142
31	Enhanced high-solids anaerobic digestion of waste activated sludge by the addition of scrap iron. Bioresource Technology, 2014, 159, 297-304.	9.6	138
32	Potential for direct interspecies electron transfer in an electric-anaerobic system to increase methane production from sludge digestion. Scientific Reports, 2015, 5, 11094.	3.3	138
33	Selective electrochemical H ₂ O ₂ generation and activation on a bifunctional catalyst for heterogeneous electro-Fenton catalysis. Journal of Hazardous Materials, 2020, 382, 121102.	12.4	137
34	Enhanced heterogeneous activation of peroxydisulfate by Co and N codoped porous carbon for degradation of organic pollutants: the synergism between Co and N. Environmental Science: Nano, 2019, 6, 399-410.	4.3	129
35	A versatile fluorescent biosensor based on target-responsive graphene oxide hydrogel for antibiotic detection. Biosensors and Bioelectronics, 2016, 83, 267-273.	10.1	123
36	Health risk assessment of heavy metals and pesticides: A case study in the main drinking water source in Dalian, China. Chemosphere, 2020, 242, 125113.	8.2	116

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37	Carbon-Based Materials for Electrochemical Reduction of CO ₂ to C ₂₊ Oxygenates: Recent Progress and Remaining Challenges. ACS Catalysis, 2021, 11, 2076-2097.	11.2	116
38	Degradation of p-nitrophenol in aqueous solution by microwave assisted oxidation process through a granular activated carbon fixed bed. Water Research, 2006, 40, 3061-3068.	11.3	114
39	High-Efficiency Electrocatalysis of Molecular Oxygen toward Hydroxyl Radicals Enabled by an Atomically Dispersed Iron Catalyst. Environmental Science & Technology, 2020, 54, 12662-12672.	10.0	114
40	Facile Method for Fabricating Boron-Doped TiO ₂ Nanotube Array with Enhanced Photoelectrocatalytic Properties. Industrial & Engineering Chemistry Research, 2008, 47, 3804-3808.	3.7	107
41	Enhanced photocatalytic performance of a two-dimensional BiOIO ₃ /g-C ₃ N ₄ heterostructured composite with a Z-scheme configuration. Applied Catalysis B: Environmental, 2018, 237, 947-956.	20.2	99
42	Simultaneous nitrification and denitrification process using novel surface-modified suspended carriers for the treatment of real domestic wastewater. Chemosphere, 2020, 247, 125831.	8.2	97
43	Occurrence, removal, and risk assessment of antibiotics in 12 wastewater treatment plants from Dalian, China. Environmental Science and Pollution Research, 2017, 24, 16478-16487.	5.3	96
44	Enhanced Perfluorooctanoic Acid Degradation by Electrochemical Activation of Sulfate Solution on B/N Codoped Diamond. Environmental Science & Technology, 2019, 53, 5195-5201.	10.0	91
45	TiO ₂ nanotube/Ag-AgBr three-component nanojunction for efficient photoconversion. Journal of Materials Chemistry, 2011, 21, 18067.	6.7	89
46	Nanocarbon-based membrane filtration integrated with electric field driving for effective membrane fouling mitigation. Water Research, 2016, 88, 285-292.	11.3	89
47	Impact of Fe(III) as an effective electron-shuttle mediator for enhanced Cr(VI) reduction in microbial fuel cells: Reduction of diffusional resistances and cathode overpotentials. Journal of Hazardous Materials, 2017, 321, 896-906.	12.4	89
48	Efficient day-night photocatalysis performance of 2D/2D Ti ₃ C ₂ /Porous g-C ₃ N ₄ nanolayers composite and its application in the degradation of organic pollutants. Chemosphere, 2020, 246, 125760.	8.2	89
49	Potentially direct interspecies electron transfer of methanogenesis for syntrophic metabolism under sulfate reducing conditions with stainless steel. Bioresource Technology, 2017, 234, 303-309.	9.6	86
50	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. Environmental Science & Technology, 2019, 53, 868-877.	10.0	83
51	Porous metal-organic framework MIL-100(Fe) as an efficient catalyst for the selective catalytic reduction of NO _x with NH ₃ . RSC Advances, 2014, 4, 48912-48919.	3.6	80
52	Combined Effects of Surface Charge and Pore Size on Co-Enhanced Permeability and Ion Selectivity through RGO-OCNT Nanofiltration Membranes. Environmental Science & Technology, 2018, 52, 4827-4834.	10.0	79
53	Electrochemical Determination of Tetracycline Using Molecularly Imprinted Polymer Modified Carbon Nanotube-Gold Nanoparticles Electrode. Electroanalysis, 2011, 23, 1863-1869.	2.9	77
54	Cobalt implanted TiO ₂ nanocatalyst for heterogeneous activation of peroxymonosulfate. RSC Advances, 2013, 3, 520-525.	3.6	77

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55	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport. <i>Nature Communications</i> , 2022, 13, 266.	12.8	76
56	Performance of a ZVI-UASB reactor for azo dye wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 199-204.	3.2	75
57	Fluorine-doped carbon nanotubes as an efficient metal-free catalyst for destruction of organic pollutants in catalytic ozonation. <i>Chemosphere</i> , 2018, 190, 135-143.	8.2	75
58	Cross-linked Graphene Oxide Framework Membranes with Robust Nano-Channels for Enhanced Sieving Ability. <i>Environmental Science & Technology</i> , 2020, 54, 15442-15453.	10.0	75
59	Zero-valent iron enhanced methanogenic activity in anaerobic digestion of waste activated sludge after heat and alkali pretreatment. <i>Waste Management</i> , 2015, 38, 297-302.	7.4	73
60	A novel aerobic electrochemical membrane bioreactor with CNTs hollow fiber membrane by electrochemical oxidation to improve water quality and mitigate membrane fouling. <i>Water Research</i> , 2019, 151, 54-63.	11.3	73
61	Toxic effect of serial perfluorosulfonic and perfluorocarboxylic acids on the membrane system of a freshwater alga measured by flow cytometry. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1597-1604.	4.3	72
62	Probing the interphase α -HO zone α -originated by carbon nanotube during catalytic ozonation. <i>Water Research</i> , 2017, 122, 86-95.	11.3	72
63	Enhanced catalytic ozonation by highly dispersed CeO ₂ on carbon nanotubes for mineralization of organic pollutants. <i>Journal of Hazardous Materials</i> , 2019, 368, 621-629.	12.4	71
64	Novel Anaerobic Electrochemical Membrane Bioreactor with a CNTs Hollow Fiber Membrane Cathode to Mitigate Membrane Fouling and Enhance Energy Recovery. <i>Environmental Science & Technology</i> , 2019, 53, 1014-1021.	10.0	71
65	Enhanced Chlorinated Pollutant Degradation by the Synergistic Effect between Dechlorination and Hydroxyl Radical Oxidation on a Bimetallic Single-Atom Catalyst. <i>Environmental Science & Technology</i> , 2021, 55, 14194-14203.	10.0	70
66	Bioelectrochemical enhancement of anaerobic methanogenesis for high organic load rate wastewater treatment in a up-flow anaerobic sludge blanket (UASB) reactor. <i>Scientific Reports</i> , 2014, 4, 6658.	3.3	68
67	Enhanced catalytic activity over MIL-100(Fe) loaded ceria catalysts for the selective catalytic reduction of NO _x with NH ₃ at low temperature. <i>Journal of Hazardous Materials</i> , 2016, 301, 512-521.	12.4	68
68	Effective adsorption of sulfamethoxazole, bisphenol A and methyl orange on nanoporous carbon derived from metal-organic frameworks. <i>Journal of Environmental Sciences</i> , 2018, 63, 250-259.	6.1	68
69	Energy-transfer-mediated oxygen activation in carbonyl functionalized carbon nitride nanosheets for high-efficient photocatalytic water disinfection and organic pollutants degradation. <i>Water Research</i> , 2020, 177, 115798.	11.3	68
70	Enhancement of anaerobic methanogenesis at a short hydraulic retention time via bioelectrochemical enrichment of hydrogenotrophic methanogens. <i>Bioresource Technology</i> , 2016, 218, 505-511.	9.6	66
71	<i>In situ</i> remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019, 6, 1283-1302.	4.3	65
72	Flexible Superhydrophobic Metal-Based Carbon Nanotube Membrane for Electrochemically Enhanced Water Treatment. <i>Environmental Science & Technology</i> , 2020, 54, 9074-9082.	10.0	65

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73	Start-up and bacterial community compositions of partial nitrification in moving bed biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2563-2574.	3.6	64
74	Correlation between circuit current, Cu(II) reduction and cellular electron transfer in EAB isolated from Cu(II)-reduced biocathodes of microbial fuel cells. <i>Bioelectrochemistry</i> , 2017, 114, 1-7.	4.6	64
75	Dynamic adsorption of ciprofloxacin on carbon nanofibers: Quantitative measurement by in situ fluorescence. <i>Journal of Water Process Engineering</i> , 2016, 9, e14-e20.	5.6	61
76	Durable and Selective Electrochemical H ₂ O ₂ Synthesis under a Large Current Enabled by the Cathode with Highly Hydrophobic Three-Phase Architecture. <i>ACS Catalysis</i> , 2021, 11, 13797-13808.	11.2	59
77	Cooperative cathode electrode and in situ deposited copper for subsequent enhanced Cd(II) removal and hydrogen evolution in bioelectrochemical systems. <i>Bioresource Technology</i> , 2016, 200, 565-571.	9.6	58
78	Covalent functionalization of MoS ₂ nanosheets synthesized by liquid phase exfoliation to construct electrochemical sensors for Cd (II) detection. <i>Talanta</i> , 2018, 182, 38-48.	5.5	58
79	Fluorescent assay for oxytetracycline based on a long-chain aptamer assembled onto reduced graphene oxide. <i>Mikrochimica Acta</i> , 2013, 180, 829-835.	5.0	57
80	A visible and label-free colorimetric sensor for miRNA-21 detection based on peroxidase-like activity of graphene/gold-nanoparticle hybrids. <i>Analytical Methods</i> , 2016, 8, 2005-2012.	2.7	57
81	Highly Permeable Thin-Film Composite Forward Osmosis Membrane Based on Carbon Nanotube Hollow Fiber Scaffold with Electrically Enhanced Fouling Resistance. <i>Environmental Science & Technology</i> , 2018, 52, 1444-1452.	10.0	56
82	The adverse effect of biochar to aquatic algae- the role of free radicals. <i>Environmental Pollution</i> , 2019, 248, 429-437.	7.5	55
83	Steering CO ₂ electroreduction toward ethanol production by a surface-bound Ru polypyridyl carbene catalyst on N-doped porous carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26353-26358.	7.1	55
84	A microbial fuel cellâ€œelectroâ€œoxidation system for coking wastewater treatment and bioelectricity generation. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 621-627.	3.2	54
85	Reduction of acute toxicity and genotoxicity of dye effluent using Fenton-coagulation process. <i>Journal of Hazardous Materials</i> , 2014, 274, 198-204.	12.4	54
86	Effects of developmental perfluorooctane sulfonate exposure on spatial learning and memory ability of rats and mechanism associated with synaptic plasticity. <i>Food and Chemical Toxicology</i> , 2015, 76, 70-76.	3.6	54
87	Transformation of Nitrogen and Iron Species during Nitrogen Removal from Wastewater via Feammox by Adding Ferrihydrite. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14394-14402.	6.7	54
88	Preparation of Zn-doped TiO ₂ nanotubes electrode and its application in pentachlorophenol photoelectrocatalytic degradation. <i>Science Bulletin</i> , 2007, 52, 1456-1461.	1.7	52
89	Evaluation of the detoxification efficiencies of coking wastewater treated by combined anaerobic-anoxic-oxic (A ₂ O) and advanced oxidation process. <i>Journal of Hazardous Materials</i> , 2017, 338, 186-193.	12.4	52
90	Electrochemical reduction of N ₂ to ammonia on Co single atom embedded N-doped porous carbon under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26358-26363.	10.3	51

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91	The effects of humic acid on the toxicity of graphene oxide to <i>Scenedesmus obliquus</i> and <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2019, 649, 163-171.	8.0	51
92	Design Principles and Strategies of Photocatalytic H ₂ O ₂ Production from O ₂ Reduction. <i>ACS ES&T Engineering</i> , 2022, 2, 1068-1079.	7.6	51
93	Selective detection of nanomolar Cr(VI) in aqueous solution based on 1,4-dithiothreitol functionalized gold nanoparticles. <i>Analytical Methods</i> , 2011, 3, 343-347.	2.7	50
94	Integration of membrane filtration and photoelectrocatalysis using a TiO ₂ /carbon/Al ₂ O ₃ membrane for enhanced water treatment. <i>Journal of Hazardous Materials</i> , 2015, 299, 27-34.	12.4	50
95	An electrochemical sensor for selective determination of sulfamethoxazole in surface water using a molecularly imprinted polymer modified BDD electrode. <i>Analytical Methods</i> , 2015, 7, 2693-2698.	2.7	50
96	Impact of dissolved organic matter on the photolysis of the ionizable antibiotic norfloxacin. <i>Journal of Environmental Sciences</i> , 2015, 27, 115-123.	6.1	50
97	Carbon nanotubes-incorporated MIL-88B-Fe as highly efficient Fenton-like catalyst for degradation of organic pollutants. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	49
98	Highly efficient metal-free electro-Fenton degradation of organic contaminants on a bifunctional catalyst. <i>Journal of Hazardous Materials</i> , 2021, 416, 125859.	12.4	49
99	Two-dimensional nanomaterial based sensors for heavy metal ions. <i>Mikrochimica Acta</i> , 2018, 185, 478.	5.0	48
100	Biological uptake and depuration of sulfadiazine and sulfamethoxazole in common carp (<i>Cyprinus</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	8.2	47
101	Enhanced adsorption of ionizable antibiotics on activated carbon fiber under electrochemical assistance in continuous-flow modes. <i>Water Research</i> , 2018, 134, 162-169.	11.3	47
102	Amphiphilic PA-induced three-dimensional graphene macrostructure with enhanced removal of heavy metal ions. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 853-861.	9.4	47
103	Using three-bio-electrode reactor to enhance the activity of anammox biomass. <i>Bioresource Technology</i> , 2015, 196, 376-382.	9.6	46
104	A colorimetric aptasensor for sulfadimethoxine detection based on peroxidase-like activity of graphene/nickel@palladium hybrids. <i>Analytical Biochemistry</i> , 2017, 525, 92-99.	2.4	46
105	Superpermeable Atomic-Thin Graphene Membranes with High Selectivity. <i>ACS Nano</i> , 2017, 11, 1920-1926.	14.6	45
106	Catalytic Ozonation in Arrayed Zinc Oxide Nanotubes as Highly Efficient Mini-Column Catalyst Reactors (MCRs): Augmentation of Hydroxyl Radical Exposure. <i>Environmental Science & Technology</i> , 2018, 52, 8701-8711.	10.0	45
107	Improvement of Antifouling and Antimicrobial Abilities on Silver@Carbon Nanotube Based Membranes under Electrochemical Assistance. <i>Environmental Science & Technology</i> , 2019, 53, 5292-5300.	10.0	45
108	Electrochemiluminescence immunosensor for highly sensitive detection of 8-hydroxy-2'-deoxyguanosine based on carbon quantum dot coated Au/SiO ₂ core-shell nanoparticles. <i>Talanta</i> , 2015, 131, 379-385.	5.5	44

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109	Synthesis of manganese incorporated hierarchical mesoporous silica nanosphere with fibrous morphology by facile one-pot approach for efficient catalytic ozonation. <i>Journal of Hazardous Materials</i> , 2016, 318, 308-318.	12.4	44
110	Mitigating Membrane Fouling Based on In Situ H_2O_2 Generation in a Novel Electro-Fenton Membrane Bioreactor. <i>Environmental Science & Technology</i> , 2020, 54, 7669-7676.	10.0	43
111	Nitrogen-doped diamond electrode shows high performance for electrochemical reduction of nitrobenzene. <i>Journal of Hazardous Materials</i> , 2014, 265, 185-190.	12.4	41
112	New Application of Ethanol-Type Fermentation: Stimulating Methanogenic Communities with Ethanol to Perform Direct Interspecies Electron Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9441-9453.	6.7	41
113	Enhancement of anaerobic acidogenesis by integrating an electrochemical system into an acidogenic reactor: Effect of hydraulic retention times (HRT) and role of bacteria and acidophilic methanogenic Archaea. <i>Bioresource Technology</i> , 2015, 179, 43-49.	9.6	40
114	Photoelectrochemical immunoassay for microcystin-LR based on a fluorine-doped tin oxide glass electrode modified with a CdS-graphene composite. <i>Mikrochimica Acta</i> , 2012, 179, 163-170.	5.0	39
115	Three-Dimensional Porous TiS_2 Nanosheet-Polyaniline Nanocomposite Electrodes for Directly Detecting Trace Cu(II) Ions. <i>Analytical Chemistry</i> , 2015, 87, 5605-5613.	6.5	39
116	Environmentally persistent free radical generation on contaminated soil and their potential biotoxicity to luminous bacteria. <i>Science of the Total Environment</i> , 2019, 687, 348-354.	8.0	39
117	Photoelectrochemical aptasensor for sulfadimethoxine using g-C ₃ N ₄ quantum dots modified with reduced graphene oxide. <i>Mikrochimica Acta</i> , 2018, 185, 345.	5.0	38
118	Electrochemical reduction of carbon dioxide to formate with Fe-C electrodes in anaerobic sludge digestion process. <i>Water Research</i> , 2016, 106, 339-343.	11.3	37
119	Intensified degradation and mineralization of antibiotic metronidazole in photo-assisted microbial fuel cells with Mo-W catalytic cathodes under anaerobic or aerobic conditions in the presence of Fe(III). <i>Chemical Engineering Journal</i> , 2019, 376, 119566.	12.7	37
120	Photoinduced formation of reactive oxygen species and electrons from metal oxide-silica nanocomposite: An EPR spin-trapping study. <i>Applied Surface Science</i> , 2017, 416, 281-287.	6.1	36
121	Novel metal-organic framework supported manganese oxides for the selective catalytic reduction of NO _x with NH ₃ : Promotional role of the support. <i>Journal of Hazardous Materials</i> , 2019, 380, 120800.	12.4	36
122	Enhancing anaerobic digestion in anaerobic integrated floating fixed-film activated sludge (An-IFAS) system using novel electron mediator suspended biofilm carriers. <i>Water Research</i> , 2020, 175, 115697.	11.3	36
123	Molecularly imprinted polymer/mesoporous carbon nanoparticles as electrode sensing material for selective detection of ofloxacin. <i>Materials Letters</i> , 2014, 129, 95-97.	2.6	35
124	Photochemical Formation of Hydroxylated Polybrominated Diphenyl Ethers (OH-PBDEs) from Polybrominated Diphenyl Ethers (PBDEs) in Aqueous Solution under Simulated Solar Light Irradiation. <i>Environmental Science & Technology</i> , 2015, 49, 9092-9099.	10.0	35
125	Improving the co-digestion performance of waste activated sludge and wheat straw through ratio optimization and ferrous oxide supplementation. <i>Bioresource Technology</i> , 2018, 267, 591-598.	9.6	35
126	Electrokinetic Enhancement of Water Flux and Ion Rejection through Graphene Oxide/Carbon Nanotube Membrane. <i>Environmental Science & Technology</i> , 2020, 54, 15433-15441.	10.0	33

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127	Fluorescent biosensor for sensitive analysis of oxytetracycline based on an indirectly labelled long-chain aptamer. RSC Advances, 2015, 5, 58895-58901.	3.6	32
128	Electrochemical activation of peroxymonosulfate in cathodic micro-channels for effective degradation of organic pollutants in wastewater. Journal of Hazardous Materials, 2020, 398, 122879.	12.4	31
129	Enhanced photocatalytic degradation of tetracycline hydrochloride by molecular imprinted film modified TiO ₂ nanotubes. Science Bulletin, 2012, 57, 601-605.	1.7	30
130	Porous carbon membrane with enhanced selectivity and antifouling capability for water treatment under electrochemical assistance. Journal of Colloid and Interface Science, 2020, 560, 59-68.	9.4	30
131	Construction of a Microchannel Electrochemical Reactor with a Monolithic Porous-Carbon Cathode for Adsorption and Degradation of Organic Pollutants in Several Minutes of Retention Time. Environmental Science & Technology, 2020, 54, 1920-1928.	10.0	30
132	Facile fabrication, characterization, and enhanced photoelectrocatalytic degradation performance of highly oriented TiO ₂ nanotube arrays. Journal of Nanoparticle Research, 2009, 11, 2153-2162.	1.9	29
133	Three-Dimensional Branched Crystal Carbon Nitride with Enhanced Intrinsic Peroxidase-Like Activity: A Hypersensitive Platform for Colorimetric Detection. ACS Applied Materials & Interfaces, 2019, 11, 17467-17474.	8.0	29
134	Formation mechanism and optical characterization of polymorphic silicon nanostructures by DC arc-discharge. RSC Advances, 2015, 5, 68714-68721.	3.6	28
135	Constructing metal-free polyimide/g-C ₃ N ₄ with high photocatalytic activity under visible light irradiation. RSC Advances, 2015, 5, 83225-83231.	3.6	28
136	Fluorescent probe based subcellular distribution of Cu(II) ions in living electrotrophs isolated from Cu(II)-reduced biocathodes of microbial fuel cells. Bioresource Technology, 2017, 225, 316-325.	9.6	28
137	Enhanced activation of peroxymonosulfate by CNT-TiO ₂ under UV-light assistance for efficient degradation of organic pollutants. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	28
138	Interface evolution in the platelet-like SiC@C and SiC@SiO ₂ monocrystal nanocapsules. Nano Research, 2017, 10, 2644-2656.	10.4	27
139	Electro-assisted CNTs/ceramic flat sheet ultrafiltration membrane for enhanced antifouling and separation performance. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	6.0	27
140	A ZIF-8-based platform for the rapid and highly sensitive detection of indoor formaldehyde. RSC Advances, 2014, 4, 36444-36450.	3.6	26
141	Nutrient removal performance and microbial characteristics of a full-scale IFAS-EBPR process treating municipal wastewater. Water Science and Technology, 2016, 73, 1261-1268.	2.5	26
142	Determination of Oxytetracycline by a Graphene@Gold Nanoparticle-Based Colorimetric Aptamer Sensor. Analytical Letters, 2017, 50, 544-553.	1.8	26
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