

Chengbin Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5107203/publications.pdf>

Version: 2024-02-01

77
papers

8,311
citations

46918

47
h-index

69108

77
g-index

77
all docs

77
docs citations

77
times ranked

9991
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct electrodeposition of reduced graphene oxide on glassy carbon electrode and its electrochemical application. <i>Electrochemistry Communications</i> , 2011, 13, 133-137.	2.3	703
2	MoS ₂ Quantum Dot Growth Induced by S Vacancies in a ZnIn ₂ S ₄ Monolayer: Atomic-Level Heterostructure for Photocatalytic Hydrogen Production. <i>ACS Nano</i> , 2018, 12, 751-758.	7.3	500
3	Ag ₃ PO ₄ /Ti ₃ C ₂ MXene interface materials as a Schottky catalyst with enhanced photocatalytic activities and anti-photocorrosion performance. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 545-554.	10.8	481
4	Vertical single or few-layer MoS ₂ nanosheets rooting into TiO ₂ nanofibers for highly efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 1-9.	10.8	465
5	Direct Electrodeposition of Graphene Enabling the One-Step Synthesis of Graphene-Metal Nanocomposite Films. <i>Small</i> , 2011, 7, 1203-1206.	5.2	355
6	Efficient heavy metal removal from industrial melting effluent using fixed-bed process based on porous hydrogel adsorbents. <i>Water Research</i> , 2018, 131, 246-254.	5.3	291
7	Scalable one-step production of porous oxygen-doped g-C ₃ N ₄ nanorods with effective electron separation for excellent visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 1-9.	10.8	269
8	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7610-7614.	7.2	221
9	A highly efficient polyampholyte hydrogel sorbent based fixed-bed process for heavy metal removal in actual industrial effluent. <i>Water Research</i> , 2016, 89, 151-160.	5.3	213
10	Positioning cyanamide defects in g-C ₃ N ₄ : Engineering energy levels and active sites for superior photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 24-31.	10.8	207
11	Efficient Removal of Heavy Metal Ions with An EDTA Functionalized Chitosan/Polyacrylamide Double Network Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 843-851.	3.2	177
12	Photocatalytic wastewater purification with simultaneous hydrogen production using MoS ₂ QD-decorated hierarchical assembly of ZnIn ₂ S ₄ on reduced graphene oxide photocatalyst. <i>Water Research</i> , 2017, 121, 11-19.	5.3	176
13	Silver phosphate-based Z-Scheme photocatalytic system with superior sunlight photocatalytic activities and anti-photocorrosion performance. <i>Applied Catalysis B: Environmental</i> , 2017, 208, 1-13.	10.8	174
14	Fast and efficient removal of As(III) from water by CuFe ₂ O ₄ with peroxymonosulfate: Effects of oxidation and adsorption. <i>Water Research</i> , 2019, 150, 182-190.	5.3	156
15	Efficient removal of arsenic from groundwater using iron oxide nanoneedle array-decorated biochar fibers with high Fe utilization and fast adsorption kinetics. <i>Water Research</i> , 2019, 167, 115107.	5.3	142
16	A double network gel as low cost and easy recycle adsorbent: Highly efficient removal of Cd(II) and Pb(II) pollutants from wastewater. <i>Journal of Hazardous Materials</i> , 2015, 300, 153-160.	6.5	139
17	Fabrication of graphene films on TiO ₂ nanotube arrays for photocatalytic application. <i>Carbon</i> , 2011, 49, 5312-5320.	5.4	127
18	Fe ₂ P/reduced graphene oxide/Fe ₂ P sandwich-structured nanowall arrays: a high-performance non-noble-metal electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8608-8615.	5.2	118

#	ARTICLE	IF	CITATIONS
19	Sponge-like polysiloxane-graphene oxide gel as a highly efficient and renewable adsorbent for lead and cadmium metals removal from wastewater. <i>Chemical Engineering Journal</i> , 2015, 280, 275-282.	6.6	117
20	New double network hydrogel adsorbent: Highly efficient removal of Cd(II) and Mn(II) ions in aqueous solution. <i>Chemical Engineering Journal</i> , 2015, 275, 179-188.	6.6	117
21	Omnidirectional enhancement of photocatalytic hydrogen evolution over hierarchical <i>œœcauline leafœœ nanoarchitectures. <i>Applied Catalysis B: Environmental</i>, 2016, 186, 88-96.</i>	10.8	117
22	A three-dimensional graphitic carbon nitride belt network for enhanced visible light photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19003-19010.	5.2	111
23	Sea-urchin-structure g-C ₃ N ₄ with narrow bandgap (E _g 2.0eV) for efficient overall water splitting under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 275-281.	10.8	110
24	Rapid and efficient treatment of wastewater with high-concentration heavy metals using a new type of hydrogel-based adsorption process. <i>Bioresource Technology</i> , 2016, 219, 451-457.	4.8	106
25	Pb(ⁱⁱ), Cu(ⁱⁱ) and Cd(ⁱⁱ) removal using a humic substance-based double network hydrogel in individual and multicomponent systems. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20110-20120.	5.2	106
26	1T-MoS ₂ nanosheets confined among TiO ₂ nanotube arrays for high performance supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 366, 163-171.	6.6	105
27	The role of reactive oxygen species and carbonate radical in oxcarbazepine degradation via UV, UV/H ₂ O ₂ : Kinetics, mechanisms and toxicity evaluation. <i>Water Research</i> , 2018, 147, 204-213.	5.3	103
28	Engineering a FRET strategy to achieve a ratiometric two-photon fluorescence response with a large emission shift and its application to fluorescence imaging. <i>Chemical Science</i> , 2015, 6, 2360-2365.	3.7	101
29	Porous lithium ion sieves nanofibers: General synthesis strategy and highly selective recovery of lithium from brine water. <i>Chemical Engineering Journal</i> , 2020, 379, 122407.	6.6	95
30	Cellulose Tailored Anatase TiO ₂ Nanospindles in Three-Dimensional Graphene Composites for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12165-12175.	4.0	91
31	A bamboo-inspired hierarchical nanoarchitecture of Ag/CuO/TiO ₂ nanotube array for highly photocatalytic degradation of 2,4-dinitrophenol. <i>Journal of Hazardous Materials</i> , 2016, 313, 244-252.	6.5	89
32	Selective H ₂ O ₂ production on N-doped porous carbon from direct carbonization of metal organic frameworks for electro-Fenton mineralization of antibiotics. <i>Chemical Engineering Journal</i> , 2020, 383, 123184.	6.6	88
33	Kinetics, pathways and toxicity evaluation of neonicotinoid insecticides degradation via UV/chlorine process. <i>Chemical Engineering Journal</i> , 2018, 346, 298-306.	6.6	87
34	Adsorption enhanced photocatalytic degradation sulfadiazine antibiotic using porous carbon nitride nanosheets with carbon vacancies. <i>Chemical Engineering Journal</i> , 2020, 382, 123017.	6.6	83
35	Efficient Photocatalytic Nitrogen Fixation: Enhanced Polarization, Activation, and Cleavage by Asymmetrical Electron Donation to Ni ^{1/2} N Bond. <i>Advanced Functional Materials</i> , 2020, 30, 1906983.	7.8	82
36	The individual and Co-exposure degradation of benzophenone derivatives by UV/H ₂ O ₂ and UV/PDS in different water matrices. <i>Water Research</i> , 2019, 159, 102-110.	5.3	79

#	ARTICLE	IF	CITATIONS
37	Controllable growth of graphene/Cu composite and its nanoarchitecture-dependent electrocatalytic activity to hydrazine oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4580-4587.	5.2	77
38	Crystallization, cyanamide defect and ion induction of carbon nitride: Exciton polarization dissociation, charge transfer and surface electron density for enhanced hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 206-212.	10.8	76
39	Static and continuous flow photoelectrocatalytic treatment of antibiotic wastewater over mesh of TiO ₂ nanotubes implanted with g-C ₃ N ₄ nanosheets. <i>Journal of Hazardous Materials</i> , 2020, 384, 121248.	6.5	74
40	Deep Dehalogenation of Florfenicol Using Crystalline CoP Nanosheet Arrays on a Ti Plate via Direct Cathodic Reduction and Atomic H. <i>Environmental Science & Technology</i> , 2019, 53, 11932-11940.	4.6	67
41	Destruction of phenicol antibiotics using the UV/H ₂ O ₂ process: Kinetics, byproducts, toxicity evaluation and trichloromethane formation potential. <i>Chemical Engineering Journal</i> , 2018, 351, 867-877.	6.6	66
42	Flexible Ti ₃ C ₂ T _x @Al electrodes with Ultrahigh Areal Capacitance: In Situ Regulation of Interlayer Conductivity and Spacing. <i>Advanced Functional Materials</i> , 2018, 28, 1803196.	7.8	66
43	Vertically oriented reduced graphene oxide supported dealloyed palladium-copper nanoparticles for methanol electrooxidation. <i>Journal of Power Sources</i> , 2015, 278, 725-732.	4.0	61
44	Polyaniline-Reduced Graphene Oxide Hybrid Nanosheets with Nearly Vertical Orientation Anchoring Palladium Nanoparticles for Highly Active and Stable Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 169-176.	4.0	61
45	Dark Deposition of Ag Nanoparticles on TiO ₂ : Improvement of Electron Storage Capacity To Boost Memory Catalysis Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25350-25359.	4.0	61
46	Ultrafast and deep removal of arsenic in high-concentration wastewater: A superior bulk adsorbent of porous Fe ₂ O ₃ nanocubes-impregnated graphene aerogel. <i>Chemosphere</i> , 2019, 222, 258-266.	4.2	56
47	Removal and Recovery of Uranium from Groundwater Using Direct Electrochemical Reduction Method: Performance and Implications. <i>Environmental Science & Technology</i> , 2019, 53, 14612-14619.	4.6	51
48	Ultrahigh Areal Capacitance of Flexible MXene Electrodes: Electrostatic and Steric Effects of Terminations. <i>Chemistry of Materials</i> , 2020, 32, 8257-8265.	3.2	50
49	One-Step Electrodeposition to Layer-by-Layer Graphene-Conducting Polymer Hybrid Films. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1780-1786.	2.0	45
50	Electrocatalytic dechlorination of halogenated antibiotics via synergistic effect of chlorine-cobalt bond and atomic H*. <i>Journal of Hazardous Materials</i> , 2018, 358, 294-301.	6.5	44
51	Hollow sea-urchin-shaped carbon-anchored single-atom iron as dual-functional electro-Fenton catalysts for degrading refractory thiamphenicol with fast reaction kinetics in a wide pH range. <i>Chemical Engineering Journal</i> , 2022, 427, 130996.	6.6	44
52	Enhanced arsenite removal from water by radially porous Fe-chitosan beads: Adsorption and H ₂ O ₂ catalytic oxidation. <i>Journal of Hazardous Materials</i> , 2019, 373, 97-105.	6.5	43
53	Tuning the Oxidation State of Cu Electrodes for Selective Electrosynthesis of Ammonia from Nitrate. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52469-52478.	4.0	43
54	Deep oxidation and removal of arsenite in groundwater by rationally positioning oxidation and adsorption sites in binary Fe-Cu oxide/TiO ₂ . <i>Chemical Engineering Journal</i> , 2018, 354, 825-834.	6.6	42

#	ARTICLE	IF	CITATIONS
55	Prednisolone degradation by UV/chlorine process: Influence factors, transformation products and mechanism. <i>Chemosphere</i> , 2018, 212, 56-66.	4.2	41
56	Palladium Nanoparticles Supported on Vertically Oriented Reduced Graphene Oxide for Methanol Electrooxidation. <i>ChemSusChem</i> , 2014, 7, 2907-2913.	3.6	40
57	Efficient Photocatalytic Hydrogen Evolution and CO ₂ Reduction: Enhanced Light Absorption, Charge Separation, and Hydrophilicity by Tailoring Terminal and Linker Units in g-C ₃ N ₄ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19607-19615.	4.0	40
58	Rapid Analysis of Bisphenol A and Its Analogues in Food Packaging Products by Paper Spray Ionization Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4859-4865.	2.4	38
59	Hierarchical reduced graphene oxide supported dealloyed platinum-copper nanoparticles for highly efficient methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6705-6712.	3.8	36
60	A new biodegradable polymer: PEGylated chitosan-g-PEI possessing a hydroxyl group at the PEG end. <i>Journal of Polymer Research</i> , 2008, 15, 181-185.	1.2	35
61	Electrochemical synthesis of polyaniline in surface-attached poly(acrylic acid) network, and its application to the electrocatalytic oxidation of ascorbic acid. <i>Mikrochimica Acta</i> , 2010, 168, 231-237.	2.5	35
62	Filter-membrane treatment of flowing antibiotic-containing wastewater through peroxydisulfate-coupled photocatalysis to reduce resistance gene and microbial inhibition during biological treatment. <i>Water Research</i> , 2021, 207, 117819.	5.3	35
63	Oxidative transformation of artificial sweetener acesulfame by permanganate: Reaction kinetics, transformation products and pathways, and ecotoxicity. <i>Journal of Hazardous Materials</i> , 2017, 330, 52-60.	6.5	34
64	Three-dimensional Nitrogen-Doped Reduced Graphene Oxide-Carbon Nanotubes Architecture Supporting Ultrafine Palladium Nanoparticles for Highly Efficient Methanol Electrooxidation. <i>Chemistry - A European Journal</i> , 2015, 21, 16631-16638.	1.7	32
65	Highly efficient As(III) removal in water using millimeter-sized porous granular MgO-biochar with high adsorption capacity. <i>Journal of Hazardous Materials</i> , 2021, 416, 125822.	6.5	32
66	Highly Efficient Continuous-Flow Electro-Fenton Treatment of Antibiotic Wastewater Using a Double-Cathode System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1414-1422.	3.2	31
67	Boosting Electrocatalytic Oxygen Evolution: Superhydrophilic/Superaerophobic Hierarchical Nanoneedle/Microflower Arrays of Ce _x Co ₃ O ₄ with Oxygen Vacancies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42843-42851.	4.0	23
68	Electrocatalytic deep dehalogenation of florfenicol using Fe-doped CoP nanotubes array for blocking resistance gene expression and microbial inhibition during biochemical treatment. <i>Water Research</i> , 2021, 201, 117361.	5.3	19
69	Three-dimensional reduced graphene oxide-Mn ₃ O ₄ nanosheet hybrid decorated with palladium nanoparticles for highly efficient hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3369-3377.	3.8	18
70	Enhanced removal of As(III) by heterogeneous catalytic oxidation of As(III) on Fe-biochar fibers with H ₂ O ₂ and hydroxylamine. <i>Chemical Engineering Journal</i> , 2022, 428, 131200.	6.6	18
71	Polyaniline/reduced graphene oxide nanosheets on TiO ₂ nanotube arrays as a high-performance supercapacitor electrode: Understanding the origin of high rate capability. <i>Electrochimica Acta</i> , 2021, 368, 137615.	2.6	16
72	Hollow Pt skim-sandwiched Cu spheres supported on reduced graphene oxide-carbon nanotube architecture for efficient methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6886-6895.	3.8	14

#	ARTICLE	IF	CITATIONS
73	High areal capacitance of vanadium oxides intercalated Ti ₃ C ₂ MXene for flexible supercapacitors with high mass loading. Nanotechnology, 2020, 31, 165403.	1.3	13
74	Filter-membrane treatment of continuous-flow tetracycline through photocatalysis-assisted peroxydisulfate oxidation. AIChE Journal, 2022, 68, .	1.8	12
75	All-Biomass Double Network Gel: Highly Efficient Removal of Pb ²⁺ and Cd ²⁺ in Wastewater and Utilization of Spent Adsorbents. Journal of Polymers and the Environment, 2020, 28, 2669-2680.	2.4	8
76	TiO ₂ nanotube supported metallocene catalysts for the preparation of nanofiber, nanosheet, and floccule of polyethylene. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 812-817.	2.4	7
77	High-efficiency and fast removal of As(III) from water by cerium oxide needles decorated macroporous carbon sponge. Chemical Engineering Journal, 2022, 446, 136740.	6.6	6