

Cheng-yin Wang

List of Publications by Year in descending order

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108
papers

6,061
citations

117453

34
h-index

74018

75
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108
all docs

108
docs citations

108
times ranked

7954
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 20118-20126.	6.6	683
2	Facile Synthesis of Crumpled Nitrogen-Doped MXene Nanosheets as a New Sulfur Host for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702485.	10.2	488
3	Dendrite-Free Sodium-Metal Anodes for High-Energy Sodium-Metal Batteries. <i>Advanced Materials</i> , 2018, 30, e1801334.	11.1	267
4	Sb ₂ O ₃ /MXene(Ti ₃ C ₂ T _x) hybrid anode materials with enhanced performance for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12445-12452.	5.2	245
5	MXene-Based Composites: Synthesis and Applications in Rechargeable Batteries and Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802004.	1.9	214
6	Co-Fe Mixed Metal Phosphide Nanocubes with Highly Interconnected-Pore Architecture as an Efficient Polysulfide Mediator for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019, 13, 4731-4741.	7.3	212
7	Solvothermal synthesis of CoS ₂ @graphene nanocomposite material for high-performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 15750.	6.7	205
8	Design Strategies to Enable the Efficient Use of Sodium Metal Anodes in High-Energy Batteries. <i>Advanced Materials</i> , 2020, 32, e1903891.	11.1	173
9	Functional MXene Materials: Progress of Their Applications. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2742-2757.	1.7	162
10	An electrochemical sensor on the hierarchically porous Cu-BTC MOF platform for glyphosate determination. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 487-494.	4.0	162
11	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 602.	5.8	138
12	Nitrogen-Doped Porous Carbon Nanosheets from Eco-Friendly Eucalyptus Leaves as High Performance Electrode Materials for Supercapacitors and Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 3683-3690.	1.7	132
13	Immunizing lithium metal anodes against dendrite growth using protein molecules to achieve high energy batteries. <i>Nature Communications</i> , 2020, 11, 5429.	5.8	129
14	A universal strategy towards high-energy aqueous multivalent-ion batteries. <i>Nature Communications</i> , 2021, 12, 2857.	5.8	126
15	Photocatalytic Advanced Oxidation Processes for Water Treatment: Recent Advances and Perspective. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3239-3253.	1.7	118
16	High-Power and Ultralong-Life Aqueous Zinc-Ion Hybrid Capacitors Based on Pseudocapacitive Charge Storage. <i>Nano-Micro Letters</i> , 2019, 11, 94.	14.4	108
17	Novel carbon and defects co-modified g-C ₃ N ₄ for highly efficient photocatalytic degradation of bisphenol A under visible light. <i>Journal of Hazardous Materials</i> , 2020, 384, 121323.	6.5	108
18	Toward High Performance Lithium-Sulfur Batteries Based on Li ₂ S Cathodes and Beyond: Status, Challenges, and Perspectives. <i>Advanced Functional Materials</i> , 2018, 28, 1800154.	7.8	107

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19	Fabrication of highly ordered microporous thin films by PS-b-PAA self-assembly and investigation of their tunable surface properties. <i>Journal of Materials Chemistry</i> , 2008, 18, 683.	6.7	103
20	Metal/Graphitic Carbon Nitride Composites: Synthesis, Structures, and Applications. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3305-3328.	1.7	102
21	Electrospun cobalt embedded porous nitrogen doped carbon nanofibers as an efficient catalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12818-12824.	5.2	87
22	Yolk-shell N-doped carbon coated FeS ₂ nanocages as a high-performance anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14051-14059.	5.2	84
23	High-Performance Quasi-Solid-State MXene-Based Li-ion Batteries. <i>ACS Central Science</i> , 2019, 5, 365-373.	5.3	78
24	Aegis of Lithium-Rich Cathode Materials via Heterostructured LiAlF ₄ Coating for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33260-33268.	4.0	74
25	Nanoengineering of Advanced Carbon Materials for Sodium-ion Batteries. <i>Small</i> , 2021, 17, e2007431.	5.2	72
26	3D Networked Tin Oxide/Graphene Aerogel with a Hierarchically Porous Architecture for High-Rate Performance Sodium-ion Batteries. <i>ChemSusChem</i> , 2015, 8, 2948-2955.	3.6	70
27	A novel lithium-ion hybrid capacitor based on an aerogel-like MXene wrapped Fe ₂ O ₃ nanosphere anode and a 3D nitrogen sulphur dual-doped porous carbon cathode. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1811-1821.	3.2	65
28	Criteria of active sites in nonradical persulfate activation process from integrated experimental and theoretical investigations: boron-nitrogen-co-doped nanocarbon-mediated peroxydisulfate activation as an example. <i>Environmental Science: Nano</i> , 2020, 7, 1899-1911.	2.2	60
29	Recent Progress in Two-Dimensional Antimicrobial Nanomaterials. <i>Chemistry - A European Journal</i> , 2019, 25, 929-944.	1.7	59
30	Unlocking Few-Layered Ternary Chalcogenides for High-Performance Potassium-ion Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1901560.	10.2	53
31	Desulfurization through Photocatalytic Oxidation: A Critical Review. <i>ChemSusChem</i> , 2021, 14, 492-511.	3.6	51
32	Metal-organic frameworks as separators and electrolytes for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7301-7316.	5.2	45
33	Recent progress in quasi-solid and solid polymer electrolytes for multivalent metal-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24175-24194.	5.2	45
34	A robust flame retardant fluorinated polyimide nanofiber separator for high-temperature lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14788-14798.	5.2	40
35	Promoting electrocatalytic nitrogen reduction to ammonia <i>via</i> Fe-boosted nitrogen activation on MnO ₂ surfaces. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13679-13684.	5.2	38
36	2D conductive MOFs with sufficient redox sites: reduced graphene oxide/Cu-benzenehexathiolate composites as high capacity anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2021, 13, 7751-7760.	2.8	37

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37	Multifunctional Free-Standing Gel Polymer Electrolyte with Carbon Nanofiber Interlayers for High-Performance Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1470-1474.	1.7	35
38	One step fabrication of nanoelectrode ensembles formed via amphiphilic block copolymers self-assembly and selective voltammetric detection of uric acid in the presence of high ascorbic acid content. <i>Talanta</i> , 2007, 71, 178-185.	2.9	33
39	Electrochemical behavior of lead(II) at poly(phenol red) modified glassy carbon electrode, and its trace determination by differential pulse anodic stripping voltammetry. <i>Mikrochimica Acta</i> , 2008, 160, 275-281.	2.5	33
40	Facile Synthesis of Mono-Dispersed Polystyrene (PS)/Ag Composite Microspheres via Modified Chemical Reduction. <i>Materials</i> , 2013, 6, 5625-5638.	1.3	33
41	Determination of Glyphosate and Aminomethylphosphonic Acid in Water by LC Using a New Labeling Reagent, 4-Methoxybenzenesulfonyl Fluoride. <i>Chromatographia</i> , 2010, 72, 679-686.	0.7	32
42	Construction of a non-enzymatic sensor based on the poly(o-phenylenediamine)/Ag-NPs composites for detecting glucose in blood. <i>Materials Science and Engineering C</i> , 2017, 71, 844-851.	3.8	32
43	Application of Photocatalytic Materials in Sensors. <i>Advanced Materials Technologies</i> , 2020, 5, 1900993.	3.0	32
44	Advances in human chorionic gonadotropin detection technologies: a review. <i>Bioanalysis</i> , 2017, 9, 1509-1529.	0.6	30
45	Hedgehog-like Bi ₂ S ₃ nanostructures: a novel composite soft template route to the synthesis and sensitive electrochemical immunoassay of the liver cancer biomarker. <i>Chemical Communications</i> , 2021, 57, 1766-1769.	2.2	30
46	Nitrogen-rich layered carbon for adsorption of typical volatile organic compounds and low-temperature thermal regeneration. <i>Journal of Hazardous Materials</i> , 2022, 424, 127348.	6.5	30
47	Construction of a non-enzymatic glucose sensor based on copolymer P4VP-co-PAN and Fe ₂ O ₃ nanoparticles. <i>Materials Science and Engineering C</i> , 2014, 35, 420-425.	3.8	28
48	Construction of a non-enzymatic glucose sensor based on copper nanoparticles/poly(o-phenylenediamine) nanocomposites. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 731-738.	1.2	27
49	Ultrasensitive biochemical sensors based on microcantilevers of atomic force microscope. <i>Analytical Biochemistry</i> , 2007, 363, 1-11.	1.1	25
50	Photoelectrochemical determination of malathion by using CuO modified with a metal-organic framework of type Cu-BTC. <i>Mikrochimica Acta</i> , 2019, 186, 481.	2.5	25
51	Ni ₃ S ₂ nanostrips@FeNi-NiFe ₂ O ₄ nanoparticles embedded in N-doped carbon microsphere: An improved electrocatalyst for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 1-10.	5.0	25
52	Voltammetric determination of terbinafine in biological fluid at glassy carbon electrode modified by cysteic acid/carbon nanotubes composite film. <i>Bioelectrochemistry</i> , 2008, 72, 107-115.	2.4	24
53	Determination of glyphosate and aminomethylphosphonic acid in soybean samples by high performance liquid chromatography using a novel fluorescent labeling reagent. <i>Analytical Methods</i> , 2013, 5, 6465.	1.3	24
54	An Improved Metal-Co-Ligand Charge Transfer Mechanism for Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2019, 12, 4221-4228.	3.6	24

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55	Boosting the lithium storage performance by synergistically coupling ultrafine heazlewoodite nanoparticle with N, S co-doped carbon. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 368-377.	5.0	24
56	DIFFERENTIAL PULSE VOLTAMMETRY FOR DETERMINATION OF PARACETAMOL AT A PUMICE MIXED CARBON PASTE ELECTRODE. <i>Analytical Letters</i> , 2001, 34, 2747-2759.	1.0	23
57	Highly sensitive microcantilever-based immunosensor for the detection of carbofuran in soil and vegetable samples. <i>Food Chemistry</i> , 2017, 229, 432-438.	4.2	23
58	Fabrication of nanometre-sized platinum electrodes by controllable electrochemical deposition. <i>Talanta</i> , 2006, 68, 1322-1328.	2.9	22
59	Crosslinking Nanoarchitectonics of Nitrogen-doped Carbon/MoS ₂ Nanosheets/Ti ₃ C ₂ T _x MXene Hybrids for Highly Reversible Sodium Storage. <i>ChemSusChem</i> , 2021, 14, 5293-5303.	3.6	22
60	Recent Advances in the Disinfection of Water Using Nanoscale Antimicrobial Materials. <i>Advanced Materials Technologies</i> , 2019, 4, 1800213.	3.0	21
61	Electrochemical Detection Coupled with High-Performance Liquid Chromatography in Pharmaceutical and Biomedical Analysis: A Mini Review. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 547-554.	0.6	20
62	Flexible sodium-ion capacitors boosted by high electrochemically-reactive and structurally-stable Sb ₂ S ₃ nanowire/Ti ₃ C ₂ T _x MXene film anodes. <i>Nano Research</i> , 2023, 16, 5592-5600.	5.8	20
63	Novel cysteic acid/reduced graphene oxide composite film modified electrode for the selective detection of trace silver ions in natural waters. <i>Analytical Methods</i> , 2013, 5, 5812.	1.3	19
64	Stable and Efficient Nitrogen-Containing Carbon-Based Electrocatalysts for Reactions in Energy-Conversion Systems. <i>ChemSusChem</i> , 2018, 11, 2267-2295.	3.6	19
65	Nitrogen Doped Carbon Coated Bi Microspheres as High-performance Anode for Half and Full Sodium Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2314-2320.	1.7	19
66	Highly Efficient Adsorption of Bilirubin by Ti ₃ C ₂ T _x MXene. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1949-1955.	1.7	19
67	Review and prospects for room-temperature sodium-sulfur batteries. <i>Materials Research Letters</i> , 2022, 10, 691-719.	4.1	19
68	Recent advances in self-actuation and self-sensing materials: State of the art and future perspectives. <i>Talanta</i> , 2020, 212, 120808.	2.9	18
69	Effects of sodium dodecyl sulfate on the electrochemical behavior of supercapacitor electrode MnO ₂ . <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 235-247.	1.2	17
70	Bismuth Nanoparticles Anchored on Ti ₃ C ₂ T _x MXene Nanosheets for High-performance Sodium Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3774-3780.	1.7	17
71	Lithium-Sulfur Batteries: Toward High Performance Lithium-Sulfur Batteries Based on Li ₂ S Cathodes and Beyond: Status, Challenges, and Perspectives (Adv. Funct. Mater.) Tj ETQq1 1 0.7871314 rgBT16/Overlook	1.7	17
72	Effect of glyphosate on X-ray diffraction of copper films prepared by electrochemical deposition. <i>RSC Advances</i> , 2019, 9, 14016-14023.	1.7	15

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73	Silk Fibroin Coating Enables Dendrite-free Zinc Anode for Long-life Aqueous Zinc-ion Batteries. <i>ChemSusChem</i> , 2022, 15, .	3.6	15
74	Determination of Benzoyl Peroxide Levels in Wheat Flour and Pharmaceutical Preparations by Differential Pulse Voltammetry in Nonaqueous Media. <i>Analytical Letters</i> , 2005, 38, 2175-2187.	1.0	13
75	Solar Cells: Facile Synthesis of Crumpled Nitrogen-Doped MXene Nanosheets as a New Sulfur Host for Lithium-Sulfur Batteries (<i>Adv. Energy Mater.</i> 13/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870060.	10.2	13
76	Nitrogen, phosphorus co-doped mesoporous carbon materials as efficient catalysts for oxygen reduction reaction. <i>Ionics</i> , 2019, 25, 4295-4303.	1.2	13
77	Removal of extremely low concentration cobalt by intercalation composite material of carbon nitride/titanium dioxide. <i>Journal of Hazardous Materials</i> , 2021, 415, 125680.	6.5	13
78	Label-free microcantilever-based immunosensors for highly sensitive determination of avian influenza virus H9. <i>Mikrochimica Acta</i> , 2014, 181, 403-410.	2.5	12
79	Graphite Carbon Nitride and Its Composites for Medicine and Health Applications. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2003-2013.	1.7	12
80	Voltammetric Determination of Dopamine in Human Serum and Urine at a Glassy Carbon Electrode Modified by Cysteic Acid Based on Electrochemical Oxidation of L-cysteine. <i>Analytical Letters</i> , 2007, 40, 689-704.	1.0	11
81	Fabrication of Large-area 3-D Ordered Silver-coated Colloidal Crystals and Macroporous Silver Films Using Polystyrene Templates. <i>Nano-Micro Letters</i> , 2013, 5, 182-190.	14.4	11
82	Differential Pulse Voltammetry for Determination of Benorilate in Pharmaceutical Formulations at Carbon Paste Electrode. <i>Analytical Letters</i> , 2005, 38, 893-905.	1.0	9
83	Sodium-ion Capacitors: Recent Development in Electrode Materials. <i>Batteries and Supercaps</i> , 2021, 4, 1680-1700.	2.4	9
84	Glucose Sensors Based on Core@Shell Magnetic Nanomaterials and Their Application in Diabetes Management: A Review. <i>Current Pharmaceutical Design</i> , 2015, 21, 5359-5368.	0.9	9
85	Tin nanoparticle in-situ decorated on nitrogen-deficient carbon nitride with excellent sodium storage performance. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 40-50.	5.0	9
86	Effect of Pyrite in Precursor on Capacitance Behavior of Prepared Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10125-10132.	1.8	8
87	Development of Small-Scale Monitoring and Modeling Strategies for Safe Lithium-ion Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	8
88	Construction of a 2D Layered Phosphorus-doped Graphitic Carbon Nitride/BiOBr Heterojunction for Highly Efficient Photocatalytic Disinfection. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	8
89	Enhanced Electrochemiluminescence in a Microwell Bipolar Electrode Array Prepared with an Optical Fiber Bundle. <i>ChemElectroChem</i> , 2021, 8, 1473-1477.	1.7	7
90	Nanomolar Detection of Amitriptyline by Potentiometry with Ion Exchanger Based PVC Membrane ISEs. <i>Electroanalysis</i> , 2003, 15, 709-714.	1.5	6

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91	Voltammetric Determination of Sinomenine in Biological Fluid Using a Glassy Carbon Electrode Modified by a Composite Film of Polycysteic Acid and Carbon Nanotubes. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 595-603.	0.6	6
92	Novel reagents for quantitative analysis of valiolamine in biological samples by high-performance liquid chromatography with pre-column UV derivatization. <i>Talanta</i> , 2010, 81, 1613-1618.	2.9	6
93	Interface interaction within nanopores in thin films of an amphiphilic block copolymer and CTAB. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 219-225.	5.0	5
94	Effect of Organic Sulfur Compounds in the Precursor on the Capacitance Performance of Prepared Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 15801-15807.	1.8	5
95	Effect of Organic Sulfide in Precursors on the Pore Structure of High-Surface Area Activated Carbons. <i>Chemical Engineering and Technology</i> , 2014, 37, 325-331.	0.9	5
96	1,2-dithioglycol functionalised carbon nitride quantum dots as a turn-off fluorescent sensor for mercury ion detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2019, 99, 796-807.	1.8	4
97	Pristine Graphitic Carbon Nitride Quantum Dots for the Visualized Detection of Latent Fingerprints. <i>Analytical Sciences</i> , 2021, 37, 1497-1503.	0.8	4
98	Pillar[5]arene-based Three-component Supramolecular Assembly and the Performance of Nitrobenzene-based Explosive Fluorescence Sensing. <i>ChemistrySelect</i> , 2021, 6, 9363-9367.	0.7	4
99	Determination of alkylamine carbonate nonionic anion oil displacement agent in oil-field water using HPLC after derivatization with 4-methoxybenzenesulfonyl fluoride. <i>Analytical Methods</i> , 2013, 5, 729-734.	1.3	3
100	DETERMINATION OF PROLINE, HYDROXYPROLINE, AND N-ETHYLGLYCINE IN URINE BY USING A NEW HPLC LABELING REAGENT, AND ITS APPLICATION IN DETECTION OF TUMOR MARKERS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2014, 37, 1731-1749.	0.5	3
101	Development of a Disposable Label-Free Impedance Immunosensor for Direct and Sensitive Clenbuterol Determination in Pork. <i>Food Analytical Methods</i> , 2016, 9, 1781-1788.	1.3	3
102	Relationship between Pyrite in the Precursor and the Pore Structure of High-Surface Area Activated Carbon Preparations. <i>Chemical Engineering and Technology</i> , 2015, 38, 85-90.	0.9	2
103	Microstructure and properties of honeycomb composite films containing Eu and Sn. <i>Rare Metals</i> , 2018, 1.	3.6	2
104	Electrochemically assisted synthesis of poly(3,4-dihydroxyphenylalanine) fluorescent organic nanoparticles for sensing applications. <i>New Journal of Chemistry</i> , 2020, 44, 7823-7831.	1.4	2
105	Enantioselective recognition of amino acid based on electrochemical deposition and X-ray diffraction technology. <i>Journal of Inorganic Biochemistry</i> , 2021, 218, 111398.	1.5	2
106	Toxicity assessments and transcriptional effects of monofunctionalized Pt(II) complex under dark and light irradiation condition in <i>Caenorhabditis elegans</i> . <i>Journal of Inorganic Biochemistry</i> , 2022, 230, 111720.	1.5	2
107	Label-free Microcantilever Immunosensor Based on a Competitive Immunoassay for the Determination of Clenbuterol. <i>Analytical Letters</i> , 2018, 51, 2240-2251.	1.0	1
108	Fabrication of Large-area 3-D Ordered Silver-coated Colloidal Crystals and Macroporous Silver Films Using Polystyrene Templates. <i>Nano-Micro Letters</i> , 2013, 5, 182.	14.4	1