

Junxiang Chen

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,403
citations

87888

38
h-index

114465

63
g-index

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all docs

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docs citations

63
times ranked

6779
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Z-scheme g-C ₃ N ₄ /WO ₃ photocatalyst with atomically defined junction for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 693-704.	20.2	617
2	Oxygen-containing Amorphous Cobalt Sulfide Porous Nanocubes as High-Activity Electrocatalysts for the Oxygen Evolution Reaction in an Alkaline/Neutral Medium. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4858-4861.	13.8	460
3	N-doped porous carbon nanosheets as pH-universal ORR electrocatalyst in various fuel cell devices. <i>Nano Energy</i> , 2018, 49, 393-402.	16.0	300
4	Hierarchical porous carbon nanofibers for compatible anode and cathode of potassium-ion hybrid capacitor. <i>Energy and Environmental Science</i> , 2020, 13, 2431-2440.	30.8	229
5	Density-Functional-Theory Calculation Analysis of Active Sites for Four-Electron Reduction of O ₂ on Fe/N-Doped Graphene. <i>ACS Catalysis</i> , 2014, 4, 4170-4177.	11.2	215
6	Fast Redox Kinetics in Bi-Heteroatom Doped 3D Porous Carbon Nanosheets for High-Performance Hybrid Potassium-ion Battery Capacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1901533.	19.5	186
7	An electrochemically neutralized energy-assisted low-cost acid-alkaline electrolyzer for energy-saving electrolysis hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4948-4954.	10.3	184
8	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Single-Atomic Iron Sites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9078-9085.	13.8	157
9	High Entropy Alloy Electrocatalytic Electrode toward Alkaline Glycerol Valorization Coupling with Acidic Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2022, 144, 7224-7235.	13.7	156
10	Biomimetic Z-scheme photocatalyst with a tandem solid-state electron flow catalyzing H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15668-15674.	10.3	155
11	Ru-RuO ₂ /CNT hybrids as high-activity pH-universal electrocatalysts for water splitting within 0.73 V in an asymmetric-electrolyte electrolyzer. <i>Nano Energy</i> , 2019, 61, 576-583.	16.0	151
12	Perfluorinated Covalent Triazine Framework Derived Hybrids for the Highly Selective Electroconversion of Carbon Dioxide into Methane. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13120-13124.	13.8	127
13	Reliable and General Route to Inverse Opal Structured Nanohybrids of Carbon-confined Transition Metal Sulfides Quantum Dots for High-Performance Sodium Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801452.	19.5	118
14	Oxygen-containing Amorphous Cobalt Sulfide Porous Nanocubes as High-Activity Electrocatalysts for the Oxygen Evolution Reaction in an Alkaline/Neutral Medium. <i>Angewandte Chemie</i> , 2017, 129, 4936-4939.	2.0	110
15	3D graphene network encapsulating SnO ₂ hollow spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4535-4542.	10.3	109
16	Highly dispersed ultrasmall NiS ₂ nanoparticles in porous carbon nanofiber anodes for sodium ion batteries. <i>Nanoscale</i> , 2019, 11, 4688-4695.	5.6	107
17	Molten-Salt-Assisted Synthesis of Bismuth Nanosheets for Long-term Continuous Electrocatalytic Conversion of CO ₂ to Formate. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20112-20119.	13.8	100
18	Energy-efficient electrolytic hydrogen production assisted by coupling urea oxidation with a pH-gradient concentration cell. <i>Chemical Communications</i> , 2018, 54, 2603-2606.	4.1	99

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19	FeS quantum dots embedded in 3D ordered macroporous carbon nanocomposite for high-performance sodium-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1138-1148.	10.3	93
20	Heteroporous MoS ₂ /Ni ₃ S ₂ towards superior electrocatalytic overall urea splitting. <i>Chemical Communications</i> , 2018, 54, 5181-5184.	4.1	92
21	Controllable Increase of Boron Content in B-Pd Interstitial Nanoalloy To Boost the Oxygen Reduction Activity of Palladium. <i>Chemistry of Materials</i> , 2017, 29, 10060-10067.	6.7	83
22	Heterogeneous electron transfer at nanoscopic electrodes: importance of electronic structures and electric double layers. <i>Chemical Society Reviews</i> , 2014, 43, 5372-5386.	38.1	82
23	Self-Assembling of Conductive Interlayer-Expanded WS ₂ Nanosheets into 3D Hollow Hierarchical Microflower Bud Hybrids for Fast and Stable Sodium Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1907677.	14.9	82
24	Scalable Synthesis of Tungsten Disulfide Nanosheets for Alkali-Acid Electrocatalytic Sulfion Recycling and H ₂ Generation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21550-21557.	13.8	82
25	A self-supported Ni-Co perselenide nanorod array as a high-activity bifunctional electrode for a hydrogen-producing hydrazine fuel cell. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17763-17770.	10.3	81
26	Robust 3D macroporous structures with SnS nanoparticles decorating nitrogen-doped carbon nanosheet networks for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23460-23470.	10.3	79
27	Local Spin-State Tuning of Iron Single-Atom Electrocatalyst by S-Coordinated Doping for Kinetics-Boosted Ammonia Synthesis. <i>Advanced Materials</i> , 2022, 34, e2202240.	21.0	79
28	Significant performance enhancement of ZnO photoanodes from Ni(OH) ₂ electrocatalyst nanosheets overcoating. <i>Nano Energy</i> , 2014, 6, 10-18.	16.0	76
29	Modulating the Electrocatalytic Performance of Palladium with the Electronic Metal-Support Interaction: A Case Study on Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2018, 8, 6617-6626.	11.2	73
30	<i>In situ</i> formation of vanadium nitride quantum dots on N-doped carbon hollow spheres for superior lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9289-9296.	10.3	68
31	2D Heterostructure of Amorphous CoFeB Coating Black Phosphorus Nanosheets with Optimal Oxygen Intermediate Absorption for Improved Electrocatalytic Water Oxidation. <i>ACS Nano</i> , 2021, 15, 12418-12428.	14.6	67
32	Energetic Span as a Rate-Determining Term for Electrocatalytic Volcanos. <i>ACS Catalysis</i> , 2018, 8, 10590-10598.	11.2	63
33	Combined lifestyle factors, all-cause mortality and cardiovascular disease: a systematic review and meta-analysis of prospective cohort studies. <i>Journal of Epidemiology and Community Health</i> , 2021, 75, jech-2020-214050.	3.7	60
34	Ultrathin tin monosulfide nanosheets with the exposed (001) plane for efficient electrocatalytic conversion of CO ₂ into formate. <i>Chemical Science</i> , 2020, 11, 3952-3958.	7.4	55
35	Layer-by-layer stacked nanohybrids of N,S-co-doped carbon film modified atomic MoS ₂ nanosheets for advanced sodium dual-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24271-24280.	10.3	52
36	An Asymmetric Electrolyte Zn-Air Battery with Ultrahigh Power Density and Energy Density. <i>ChemElectroChem</i> , 2018, 5, 589-592.	3.4	50

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37	Nâ€Doped Carbon Nanofibers with Interweaved Nanochannels for Highâ€Performance Sodiumâ€Ion Storage. <i>Small</i> , 2019, 15, e1904054.	10.0	45
38	A General Self-Sacrifice Template Strategy to 3D Heteroatom-Doped Macroporous Carbon for High-Performance Potassium-Ion Hybrid Capacitors. <i>Nano-Micro Letters</i> , 2021, 13, 131.	27.0	40
39	Engineering graphene with red phosphorus quantum dots for superior hybrid anodes of sodium-ion batteries. <i>Nanoscale</i> , 2017, 9, 14722-14729.	5.6	38
40	Electrocatalytic O ₂ Reduction on Pt: Multiple Roles of Oxygenated Adsorbates, Nature of Active Sites, and Origin of Overpotential. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6209-6217.	3.1	35
41	Facile Sprayâ€Pyrolysis Synthesis of Yolkâ€Shell Earthâ€Abundant Elemental Nickelâ€Ironâ€Based Nanohybrid Electrocatalysts for Full Water Splitting. <i>ChemSusChem</i> , 2017, 10, 4756-4763.	6.8	31
42	2â€D Hybrid of Niâ€LDH Chips on Carbon Nanosheets as Cathode of Zincâ€Air Battery for Electrocatalytic Conversion of O ₂ into H ₂ O ₂ . <i>ChemSusChem</i> , 2020, 13, 1496-1503.	6.8	30
43	Theoretical Analysis of Electrochemical Formation and Phase Transition of Oxygenated Adsorbates on Pt(111). <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20448-20458.	8.0	29
44	Perfluorinated Covalent Triazine Framework Derived Hybrids for the Highly Selective Electroconversion of Carbon Dioxide into Methane. <i>Angewandte Chemie</i> , 2018, 130, 13304-13308.	2.0	29
45	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Singleâ€Atomic Iron Sites. <i>Angewandte Chemie</i> , 2021, 133, 9160-9167.	2.0	26
46	Interfacial engineering of Ruâ€Sâ€Sb/antimonene electrocatalysts for highly efficient electrolytic hydrogen generation in neutral electrolyte. <i>Chemical Communications</i> , 2019, 55, 10884-10887.	4.1	25
47	RuS _{2-x} quantum dots/rGO as bifunctional hydrogen electrocatalysts for harvesting electrochemical neutralization energy. <i>Journal of Power Sources</i> , 2020, 472, 228625.	7.8	22
48	Defect-Rich MoO ₃ Nanobelt Cathode for a High-Performance Hybrid Alkali/Acid Zn-MoO ₃ Rechargeable Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11524-11533.	6.7	20
49	Mechanistic study on Cu-catalyzed CO ₂ electroreduction into CH ₄ at simulated low overpotentials based on an improved electrochemical model. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15531-15540.	2.8	17
50	Mechanistic Study of Pt-Catalyzed Electrooxidation of HCOOH in Acid Medium: Kinetic Considerations on the Effect of Solvation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24871-24884.	3.1	16
51	Moltenâ€Saltâ€Assisted Synthesis of Bismuth Nanosheets for Longâ€Term Continuous Electrocatalytic Conversion of CO ₂ to Formate. <i>Angewandte Chemie</i> , 2020, 132, 20287-20294.	2.0	14
52	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. <i>Solar Energy</i> , 2020, 208, 379-387.	6.1	13
53	The Enhancement of Selectivity and Activity for Two-Electron Oxygen Reduction Reaction by Tuned Oxygen Defects on Amorphous Hydroxide Catalysts. <i>CCS Chemistry</i> , 2022, 4, 566-583.	7.8	13
54	Promotion for Full Water Splitting toward Vanadium-Incorporated MoO ₂ â€MoNi ₄ Hybrid Nanoarrays. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13225-13232.	6.7	12

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55	High-Performance Bifunctional Electrocatalysts of Palladium Decoration on Carbon Nanoarchitectures for Indirect Releasing of H_2 Stored in Formate. <i>Small Structures</i> , 2021, 2, .	12.0	11
56	CeO_2 quantum dots engineering 3D carbon architectures toward dendrite-free Na anode and reversible Te cathode for high-performance Na-Te batteries. <i>Information Materials</i> , 2022, 4, .	17.3	11
57	Marking Electrocatalysts on the "Volcanic Belt" of Hydrogen Electrode Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5587-5595.	3.1	6
58	Potassium-Ion Hybrid Capacitors: Fast Redox Kinetics in Bi-Heteroatom Doped 3D Porous Carbon Nanosheets for High-Performance Hybrid Potassium-Ion Battery Capacitors (<i>Adv. Energy Mater.</i> 42/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970167.	19.5	5
59	Recognizing single-trial motor imagery EEG based on interpretable clustering method. <i>Biomedical Signal Processing and Control</i> , 2021, 63, 102171.	5.7	5
60	Scalable Synthesis of Tungsten Disulfide Nanosheets for Alkali-Acid Electrocatalytic Sulfion Recycling and H_2 Generation. <i>Angewandte Chemie</i> , 2021, 133, 21720-21727.	2.0	4
61	Scoring model of convex probe endobronchial ultrasound multimodal imaging in differentiating benign and malignant lung lesions. <i>Journal of Thoracic Disease</i> , 2020, 12, 7645-7655.	1.4	4
62	Theoretical insights into the effect of the overpotential on CO electroreduction mechanisms on Cu(111): regulation and application of electrode potentials from a CO coverage-dependent electrochemical model. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 62-73.	2.8	3
63	Sub-1 nm MoC Quantum Dots Decorating N-Doped Graphene as Advanced Electrocatalysts of Flexible Hybrid Alkali-Acid Zn-Quinone Battery. <i>Small</i> , 2022, , 2201144.	10.0	2