

Xun Cui

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

4,404
citations

182225

30
h-index

139680

61
g-index

65
all docs

65
docs citations

65
times ranked

7126
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis-free synthesis of single-atom cobalt catalysts for efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5918-5924.	5.2	29
2	Heteroatom-doped graphene-based electrocatalysts for ORR, OER, and HER. , 2022, , 145-168.		1
3	Simultaneously Crafting Single-Atomic Fe Sites and Graphitic Layer-Wrapped Fe ₃ C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction. <i>Advanced Functional Materials</i> , 2021, 31, 2009197.	7.8	112
4	Recent advances in activating surface reconstruction for the high-efficiency oxygen evolution reaction. <i>Chemical Society Reviews</i> , 2021, 50, 8428-8469.	18.7	452
5	Conjugated cyclized-polyacrylonitrile encapsulated carbon nanotubes as core-shell heterostructured anodes with favorable lithium storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6962-6970.	5.2	21
6	Pyrolysis-free covalent organic framework-based materials for efficient oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20985-21004.	5.2	33
7	In-situ confinement of ultrasmall SnO ₂ nanocrystals into redox-active polyimides for high-rate and long-cycling anode materials. <i>Composites Communications</i> , 2021, 23, 100561.	3.3	8
8	<i>Operando</i> unraveling photothermal-promoted dynamic active-sites generation in NiFe ₂ O ₄ for markedly enhanced oxygen evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	107
9	Electrocatalysis: Simultaneously Crafting Single-Atomic Fe Sites and Graphitic Layer-Wrapped Fe ₃ C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction (<i>Adv. Funct. Mater.</i> 10/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170064.	7.8	0
10	Metal-organic frameworks-derived heteroatom-doped carbon electrocatalysts for oxygen reduction reaction. <i>Nano Energy</i> , 2021, 86, 106073.	8.2	107
11	Chain engineering of carbonyl polymers for sustainable lithium-ion batteries. <i>Materials Today</i> , 2021, 50, 170-198.	8.3	36
12	Robust wrinkled MoS ₂ /N-C bifunctional electrocatalysts interfaced with single Fe atoms for wearable zinc-air batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	122
13	Tailoring oxygen evolution reaction activity of metal-oxide spinel nanoparticles <i>via</i> judiciously regulating surface-capping polymers. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20375-20384.	5.2	14
14	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1611-1618.	7.2	104
15	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, 1628-1635.	1.6	34
16	A Simple Glucose-Blowing Approach to Graphene-Like Foam/NiO Composites for Asymmetric Supercapacitors. <i>Energy Technology</i> , 2020, 8, 1900923.	1.8	11
17	Hydrothermally self-templated synthesis of rectangular polyimide submicrotubes and promising potentials in electrochemical energy storage. <i>Chemical Communications</i> , 2020, 56, 1429-1432.	2.2	27
18	Facilely controllable synthesis of multi-functional aluminum/nickel/perfluorosilane composites for enhancing the thermal energy release stability and enhancing anti-wetting properties. <i>Composites Science and Technology</i> , 2020, 199, 108351.	3.8	3

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19	Large-Grained Perovskite Films Enabled by One-Step Meniscus-Assisted Solution Printing of Cross-Aligned Conductive Nanowires for Biodegradable Flexible Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001185.	10.2	31
20	Chain engineering-tailored microstructures and lithium storage performance of hydrothermally-synthesized linear polyimides. <i>Materials Today Chemistry</i> , 2020, 17, 100341.	1.7	18
21	Trimetallic CoFeCr hydroxide electrocatalysts synthesized at a low temperature for accelerating water oxidation via tuning the electronic structure of active sites. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3647-3653.	2.5	12
22	Conjugated polyimide-coated carbon nanofiber aerogels in a redox electrolyte for binder-free supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 401, 126031.	6.6	45
23	Simple route to interconnected, hierarchically structured, porous Zn ₂ SnO ₄ nanospheres as electron transport layer for efficient perovskite solar cells. <i>Nano Energy</i> , 2020, 71, 104620.	8.2	59
24	Frontispiz: Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, .	1.6	0
25	Tailoring carrier dynamics in perovskite solar cells via precise dimension and architecture control and interfacial positioning of plasmonic nanoparticles. <i>Energy and Environmental Science</i> , 2020, 13, 1743-1752.	15.6	63
26	Vertically aligned VS ₂ on graphene as a 3D heteroarchitected anode material with capacitance-dominated lithium storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5882-5889.	5.2	68
27	Emerging covalent organic frameworks tailored materials for electrocatalysis. <i>Nano Energy</i> , 2020, 70, 104525.	8.2	143
28	Frontispiece: Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	7.2	1
29	Tailoring interfacial carrier dynamics via rationally designed uniform CsPbBr _x I _{3-x} quantum dots for high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26098-26108.	5.2	15
30	Incorporation of redox-active polyimide binder into LiFePO ₄ cathode for high-rate electrochemical energy storage. <i>Nanotechnology Reviews</i> , 2020, 9, 1350-1358.	2.6	14
31	Multi-functional PEDOT-engineered sodium titanate nanowires for sodium-ion batteries with synchronous improvements in rate capability and structural stability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19241-19247.	5.2	28
32	In Situ Templating Approach To Fabricate Small-Mesopore-Dominant S-Doped Porous Carbon Electrodes for Supercapacitors and Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 5591-5599.	2.5	24
33	Enabling highly efficient photocatalytic hydrogen generation and organics degradation via a perovskite solar cell-assisted semiconducting nanocomposite photoanode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 165-171.	5.2	33
34	Controlled fabrication of nitrogen-doped carbon hollow nanospheres for high-performance supercapacitors. <i>Reactive and Functional Polymers</i> , 2019, 144, 104349.	2.0	3
35	Precise Cross-Dimensional Regulation of the Structure of a Photoreversible DNA Nanoswitch. <i>Analytical Chemistry</i> , 2019, 91, 14530-14537.	3.2	8
36	A facile solvothermal polymerization approach to thermoplastic polymer-based nanocomposites as alternative anodes for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23019-23027.	5.2	24

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37	A molecular engineering approach to pore-adjustable nanoporous carbons with narrow distribution for high-performance supercapacitors. <i>Chemical Communications</i> , 2019, 55, 2305-2308.	2.2	24
38	Simultaneous Polymerization Enabled the Confinement of Size-Adjustable TiO ₂ Nanocrystals in S-Doped Carbons for High-Rate Anode Materials. <i>Energy Technology</i> , 2019, 7, 1900247.	1.8	14
39	A novel photosensitive dual-sensor for simultaneous detection of nucleic acids and small chemical molecules. <i>Biosensors and Bioelectronics</i> , 2019, 127, 108-117.	5.3	5
40	Facile preparation of superhydrophobic nano-aluminum/copper(II) oxide composite films with their exposure and heat-release stability. <i>Materials Letters</i> , 2018, 213, 294-297.	1.3	9
41	Hierarchical MoS ₂ -Coated V ₂ O ₃ composite nanosheet tubes as both the cathode and anode materials for pseudocapacitors. <i>Electrochimica Acta</i> , 2018, 277, 218-225.	2.6	21
42	Von der Präzisionssynthese von Blockcopolymeren zu Eigenschaften und Anwendungen von funktionellen Nanopartikeln. <i>Angewandte Chemie</i> , 2018, 130, 2066-2093.	1.6	14
43	From Precision Synthesis of Block Copolymers to Properties and Applications of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2046-2070.	7.2	138
44	Cascade charge transfer enabled by incorporating edge-enriched graphene nanoribbons for mesostructured perovskite solar cells with enhanced performance. <i>Nano Energy</i> , 2018, 52, 123-133.	8.2	123
45	Low-temperature controlled synthesis of novel bismuth oxide (Bi ₂ O ₃) with microrods and microflowers with great photocatalytic activities. <i>Materials Letters</i> , 2018, 228, 427-430.	1.3	14
46	A DNA Bubble-Mediated Gene Regulation System Based on Thrombin-Bound DNA Aptamers. <i>ACS Synthetic Biology</i> , 2017, 6, 758-765.	1.9	12
47	A real-time control system of gene expression using ligand-bound nucleic acid aptamer for metabolic engineering. <i>Metabolic Engineering</i> , 2017, 42, 85-97.	3.6	10
48	Three-Dimensional Dendritic Structures of NiCoMo as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22420-22431.	4.0	100
49	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4488-4493.	7.2	210
50	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2017, 129, 4559-4564.	1.6	40
51	Recent advances in interfacial engineering of perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 373002.	1.3	129
52	Meniscus-assisted solution printing of large-grained perovskite films for high-efficiency solar cells. <i>Nature Communications</i> , 2017, 8, 16045.	5.8	359
53	Noble metal-metal oxide nanohybrids with tailored nanostructures for efficient solar energy conversion, photocatalysis and environmental remediation. <i>Energy and Environmental Science</i> , 2017, 10, 402-434.	15.6	820
54	Layered NH ₄ Co _x Ni _{1-x} PO ₄ ·H ₂ O (0 ≤ x ≤ 1) nanostructures finely tuned by Co/Ni molar ratios for asymmetric supercapacitor electrodes. <i>Journal of Materials Science</i> , 2016, 51, 9946-9957.	1.7	37

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55	Improved photoelectrocatalytic properties of Ti-doped BiFeO ₃ films for water oxidation. Journal of Materials Science, 2016, 51, 5712-5723.	1.7	46
56	NiCo-selenide as a novel catalyst for water oxidation. Journal of Materials Science, 2016, 51, 3724-3734.	1.7	31
57	Hydrothermal synthesis, and tailoring the growth of Ti-supported TiO ₂ nanotubes with thick tube walls. Materials and Design, 2016, 97, 257-267.	3.3	27
58	Ultrahigh Voltage Synthesis of 2D Amorphous Nickel-Cobalt Hydroxide Nanosheets on CFP for High Performance Energy Storage Device. Electrochimica Acta, 2016, 190, 695-702.	2.6	46
59	NiCoO ₂ nanowires grown on carbon fiber paper for highly efficient water oxidation. Electrochimica Acta, 2015, 174, 246-253.	2.6	90
60	Electrochemical Fabrication of Porous Ni _{0.5} Co _{0.5} Alloy Film and Its Enhanced Electrocatalytic Activity towards Methanol Oxidation. Journal of the Electrochemical Society, 2015, 162, F1415-F1424.	1.3	32
61	Hierarchical structures of nickel, cobalt-based nanosheets and iron oxyhydroxide nanorods arrays for electrochemical capacitors. Electrochimica Acta, 2015, 161, 137-143.	2.6	48
62	The impact of morphologies and electrolyte solutions on the supercapacitive behavior for Fe ₂ O ₃ and the charge storage mechanism. Electrochimica Acta, 2015, 178, 171-178.	2.6	37
63	Hydrogenation of Pt/TiO ₂ {101} nanobelts: a driving force for the improvement of methanol catalysis. Physical Chemistry Chemical Physics, 2015, 17, 28626-28634.	1.3	18
64	Promoting Effect of Co in Ni _m Co _n (m + n = 4) Bimetallic Electrocatalysts for Methanol Oxidation Reaction. ACS Applied Materials & Interfaces, 2015, 7, 493-503.	4.0	140