

# Xun Cui

## List of Publications by Year in descending order

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64  
papers

4,404  
citations

159573

30  
h-index

123420

61  
g-index

65  
all docs

65  
docs citations

65  
times ranked

6173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis-free synthesis of single-atom cobalt catalysts for efficient oxygen reduction. Journal of Materials Chemistry A, 2022, 10, 5918-5924.	10.3	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 <sub>3</sub> C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction. Advanced Functional Materials, 2021, 31, 2009197.	14.9	112
4	Recent advances in activating surface reconstruction for the high-efficiency oxygen evolution reaction. Chemical Society Reviews, 2021, 50, 8428-8469.	38.1	452
5	Conjugated cyclized-polyacrylonitrile encapsulated carbon nanotubes as core-sheath heterostructured anodes with favorable lithium storage. Journal of Materials Chemistry A, 2021, 9, 6962-6970.	10.3	21
6	Pyrolysis-free covalent organic framework-based materials for efficient oxygen electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 20985-21004.	10.3	33
7	In-situ confinement of ultrasmall SnO <sub>2</sub> nanocrystals into redox-active polyimides for high-rate and long-cycling anode materials. Composites Communications, 2021, 23, 100561.	6.3	8
8	<i>Operando</i> unraveling photothermal-promoted dynamic active-sites generation in NiFe <sub>2</sub> O <sub>4</sub> for markedly enhanced oxygen evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	107
9	Electrocatalysis: Simultaneously Crafting Single-Atomic Fe Sites and Graphitic Layer-Wrapped Fe <sub>3</sub> C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction (Adv. Funct. Mater. 10/2021). Advanced Functional Materials, 2021, 31, 2170064.	14.9	0
10	Metal-organic frameworks-derived heteroatom-doped carbon electrocatalysts for oxygen reduction reaction. Nano Energy, 2021, 86, 106073.	16.0	107
11	Chain engineering of carbonyl polymers for sustainable lithium-ion batteries. Materials Today, 2021, 50, 170-198.	14.2	36
12	Robust wrinkled MoS <sub>2</sub> /N-C bifunctional electrocatalysts interfaced with single Fe atoms for wearable zinc-air batteries. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	122
13	Tailoring oxygen evolution reaction activity of metal-oxide spinel nanoparticles <i>via</i> judiciously regulating surface-capping polymers. Journal of Materials Chemistry A, 2021, 9, 20375-20384.	10.3	14
14	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 1611-1618.	13.8	104
15	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. Angewandte Chemie, 2020, 132, 1628-1635.	2.0	34
16	A Simple Glucose-Blowing Approach to Graphene-Like Foam/NiO Composites for Asymmetric Supercapacitors. Energy Technology, 2020, 8, 1900923.	3.8	11
17	Hydrothermally self-templated synthesis of rectangular polyimide submicrotubes and promising potentials in electrochemical energy storage. Chemical Communications, 2020, 56, 1429-1432.	4.1	27
18	Facilely controllable synthesis of multi-functional aluminum/nickel/perfluorosilane composites for enhancing the thermal energy release stability and enhancing anti-wetting properties. Composites Science and Technology, 2020, 199, 108351.	7.8	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.	19.5	31
20	Chain engineering-tailored microstructures and lithium storage performance of hydrothermally-synthesized linear polyimides. <i>Materials Today Chemistry</i> , 2020, 17, 100341.	3.5	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.	4.9	12
22	Conjugated polyimide-coated carbon nanofiber aerogels in a redox electrolyte for binder-free supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 401, 126031.	12.7	45
23	Simple route to interconnected, hierarchically structured, porous Zn <sub>2</sub> SnO <sub>4</sub> nanospheres as electron transport layer for efficient perovskite solar cells. <i>Nano Energy</i> , 2020, 71, 104620.	16.0	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, .	2.0	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.	30.8	63
26	Vertically aligned VS <sub>2</sub> on graphene as a 3D heteroarchitected anode material with capacitance-dominated lithium storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5882-5889.	10.3	68
27	Emerging covalent organic frameworks tailored materials for electrocatalysis. <i>Nano Energy</i> , 2020, 70, 104525.	16.0	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, .	13.8	1
29	Tailoring interfacial carrier dynamics via rationally designed uniform CsPbBr <sub>x</sub> I <sub>3-x</sub> quantum dots for high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26098-26108.	10.3	15
30	Incorporation of redox-active polyimide binder into LiFePO <sub>4</sub> cathode for high-rate electrochemical energy storage. <i>Nanotechnology Reviews</i> , 2020, 9, 1350-1358.	5.8	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.	10.3	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.	5.1	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.	10.3	33
34	Controlled fabrication of nitrogen-doped carbon hollow nanospheres for high-performance supercapacitors. <i>Reactive and Functional Polymers</i> , 2019, 144, 104349.	4.1	3
35	Precise Cross-Dimensional Regulation of the Structure of a Photoreversible DNA Nanoswitch. <i>Analytical Chemistry</i> , 2019, 91, 14530-14537.	6.5	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.	10.3	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.	4.1	24
38	Simultaneous Polymerization Enabled the Confinement of Size-Adjustable $\text{TiO}_2$ Nanocrystals in S-Doped Carbons for High-Rate Anode Materials. <i>Energy Technology</i> , 2019, 7, 1900247.	3.8	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.	10.1	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.	2.6	9
41	Hierarchical $\text{MoS}_2$ -Coated $\text{V}_2\text{O}_3$ composite nanosheet tubes as both the cathode and anode materials for pseudocapacitors. <i>Electrochimica Acta</i> , 2018, 277, 218-225.	5.2	21
42	Von der Präzisionssynthese von Blockcopolymeren zu Eigenschaften und Anwendungen von funktionellen Nanopartikeln. <i>Angewandte Chemie</i> , 2018, 130, 2066-2093.	2.0	14
43	From Precision Synthesis of Block Copolymers to Properties and Applications of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2046-2070.	13.8	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.	16.0	123
45	Low-temperature controlled synthesis of novel bismuth oxide ( $\text{Bi}_2\text{O}_3$ ) with microrods and microflowers with great photocatalytic activities. <i>Materials Letters</i> , 2018, 228, 427-430.	2.6	14
46	A DNA Bubble-Mediated Gene Regulation System Based on Thrombin-Bound DNA Aptamers. <i>ACS Synthetic Biology</i> , 2017, 6, 758-765.	3.8	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.	7.0	10
48	Three-Dimensional Dendritic Structures of $\text{NiCoMo}$ as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22420-22431.	8.0	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.	13.8	210
50	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2017, 129, 4559-4564.	2.0	40
51	Recent advances in interfacial engineering of perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 373002.	2.8	129
52	Meniscus-assisted solution printing of large-grained perovskite films for high-efficiency solar cells. <i>Nature Communications</i> , 2017, 8, 16045.	12.8	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.	30.8	820
54	Layered $\text{NH}_4\text{Co}_x\text{Ni}_{1-x}\text{PO}_4 \cdot \text{H}_2\text{O}$ ( $0 \leq x \leq 1$ ) nanostructures finely tuned by Co/Ni molar ratios for asymmetric supercapacitor electrodes. <i>Journal of Materials Science</i> , 2016, 51, 9946-9957.	3.7	37

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55	Improved photoelectrocatalytic properties of Ti-doped BiFeO <sub>3</sub> films for water oxidation. Journal of Materials Science, 2016, 51, 5712-5723.	3.7	46
56	NiCo-selenide as a novel catalyst for water oxidation. Journal of Materials Science, 2016, 51, 3724-3734.	3.7	31
57	Hydrothermal synthesis, and tailoring the growth of Ti-supported TiO <sub>2</sub> nanotubes with thick tube walls. Materials and Design, 2016, 97, 257-267.	7.0	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.	5.2	46
59	NiCoO <sub>2</sub> nanowires grown on carbon fiber paper for highly efficient water oxidation. Electrochimica Acta, 2015, 174, 246-253.	5.2	90
60	Electrochemical Fabrication of Porous Ni <sub>0.5</sub> Co <sub>0.5</sub> Alloy Film and Its Enhanced Electrocatalytic Activity towards Methanol Oxidation. Journal of the Electrochemical Society, 2015, 162, F1415-F1424.	2.9	32
61	Hierarchical structures of nickel, cobalt-based nanosheets and iron oxyhydroxide nanorods arrays for electrochemical capacitors. Electrochimica Acta, 2015, 161, 137-143.	5.2	48
62	The impact of morphologies and electrolyte solutions on the supercapacitive behavior for Fe <sub>2</sub> O <sub>3</sub> and the charge storage mechanism. Electrochimica Acta, 2015, 178, 171-178.	5.2	37
63	Hydrogenation of Pt/TiO <sub>2</sub> {101} nanobelts: a driving force for the improvement of methanol catalysis. Physical Chemistry Chemical Physics, 2015, 17, 28626-28634.	2.8	18
64	Promoting Effect of Co in Ni <sub>m</sub> Co <sub>n</sub> (m + n = 4) Bimetallic Electrocatalysts for Methanol Oxidation Reaction. ACS Applied Materials & Interfaces, 2015, 7, 493-503.	8.0	140