

Xun Cui

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

2,687

citations

25

h-index

51

g-index

65

ext. papers

3,525

ext. citations

11.1

avg, IF

5.56

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 62 | 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 | 35.4 | 638 |
| 61 | Meniscus-assisted solution printing of large-grained perovskite films for high-efficiency solar cells. <i>Nature Communications</i> , 2017 , 8, 16045 | 17.4 | 292 |
| 60 | Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4488-4493 | 16.4 | 122 |
| 59 | Recent advances in interfacial engineering of perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 373002 | 3 | 117 |
| 58 | Promoting effect of Co in Ni(m)Co(n) (m + n = 4) bimetallic electrocatalysts for methanol oxidation reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 493-503 | 9.5 | 103 |
| 57 | From Precision Synthesis of Block Copolymers to Properties and Applications of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2046-2070 | 16.4 | 99 |
| 56 | 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 | 17.1 | 96 |
| 55 | Recent advances in activating surface reconstruction for the high-efficiency oxygen evolution reaction. <i>Chemical Society Reviews</i> , 2021 , 50, 8428-8469 | 58.5 | 95 |
| 54 | Emerging covalent organic frameworks tailored materials for electrocatalysis. <i>Nano Energy</i> , 2020 , 70, 104525 | 17.1 | 73 |
| 53 | NiCoO ₂ nanowires grown on carbon fiber paper for highly efficient water oxidation. <i>Electrochimica Acta</i> , 2015 , 174, 246-253 | 6.7 | 73 |
| 52 | 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 | 16.4 | 60 |
| 51 | Three-Dimensional Dendritic Structures of NiCoMo as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22420-22431 | 9.5 | 55 |
| 50 | 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 | 13 | 45 |
| 49 | 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 | 17.1 | 42 |
| 48 | 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 | 15.6 | 42 |
| 47 | Hierarchical structures of nickel, cobalt-based nanosheets and iron oxyhydroxide nanorods arrays for electrochemical capacitors. <i>Electrochimica Acta</i> , 2015 , 161, 137-143 | 6.7 | 41 |
| 46 | Ultrahigh Voltage Synthesis of 2D Amorphous Nickel-Cobalt Hydroxide Nanosheets on CFP for High Performance Energy Storage Device. <i>Electrochimica Acta</i> , 2016 , 190, 695-702 | 6.7 | 40 |

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| 45 | Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 4559-4564 | 3.6 | 33 |
| 44 | 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 | 3.54 | 33 |
| 43 | Improved photoelectrocatalytic properties of Ti-doped BiFeO ₃ films for water oxidation. <i>Journal of Materials Science</i> , 2016 , 51, 5712-5723 | 4.3 | 32 |
| 42 | Unraveling photothermal-promoted dynamic active-sites generation in NiFeO for markedly enhanced oxygen evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 32 |
| 41 | The impact of morphologies and electrolyte solutions on the supercapacitive behavior for Fe ₂ O ₃ and the charge storage mechanism. <i>Electrochimica Acta</i> , 2015 , 178, 171-178 | 6.7 | 31 |
| 40 | Conjugated polyimide-coated carbon nanofiber aerogels in a redox electrolyte for binder-free supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 401, 126031 | 14.7 | 31 |
| 39 | Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020 , 132, 1628-1635 | 3.6 | 28 |
| 38 | 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, | 11.5 | 26 |
| 37 | 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 | 13 | 25 |
| 36 | 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 | 4.3 | 25 |
| 35 | NiCo-selenide as a novel catalyst for water oxidation. <i>Journal of Materials Science</i> , 2016 , 51, 3724-3734 | 4.3 | 23 |
| 34 | Metal-organic frameworks-derived heteroatom-doped carbon electrocatalysts for oxygen reduction reaction. <i>Nano Energy</i> , 2021 , 86, 106073 | 17.1 | 23 |
| 33 | Hydrothermally self-templated synthesis of rectangular polyimide submicrotubes and promising potentials in electrochemical energy storage. <i>Chemical Communications</i> , 2020 , 56, 1429-1432 | 5.8 | 22 |
| 32 | 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 | 13 | 20 |
| 31 | A molecular engineering approach to pore-adjustable nanoporous carbons with narrow distribution for high-performance supercapacitors. <i>Chemical Communications</i> , 2019 , 55, 2305-2308 | 5.8 | 19 |
| 30 | Electrochemical Fabrication of Porous Ni _{0.5} Co _{0.5} Alloy Film and Its Enhanced Electrocatalytic Activity towards Methanol Oxidation. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F1415-F1424 | 3.9 | 19 |
| 29 | 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 | 21.8 | 19 |
| 28 | 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 | 13 | 18 |

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| 27 | Hydrothermal synthesis, and tailoring the growth of Ti-supported TiO ₂ nanotubes with thick tube walls. <i>Materials and Design</i> , 2016 , 97, 257-267 | 8.1 | 17 |
| 26 | Hydrogenation of Pt/TiO ₂ {101} nanobelts: a driving force for the improvement of methanol catalysis. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28626-34 | 3.6 | 15 |
| 25 | 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 | 6.7 | 15 |
| 24 | 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 | 6.1 | 13 |
| 23 | 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 | 3.5 | 11 |
| 22 | Chain engineering-tailored microstructures and lithium storage performance of hydrothermally-synthesized linear polyimides. <i>Materials Today Chemistry</i> , 2020 , 17, 100341 | 6.2 | 11 |
| 21 | A DNA Bubble-Mediated Gene Regulation System Based on Thrombin-Bound DNA Aptamers. <i>ACS Synthetic Biology</i> , 2017 , 6, 758-765 | 5.7 | 10 |
| 20 | Von der Präzisionssynthese von Blockcopolymeren zu Eigenschaften und Anwendungen von funktionellen Nanopartikeln. <i>Angewandte Chemie</i> , 2018 , 130, 2066-2093 | 3.6 | 10 |
| 19 | 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 | 9.7 | 8 |
| 18 | Tailoring interfacial carrier dynamics via rationally designed uniform CsPbBr ₃ quantum dots for high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 26098-26108 | 13 | 8 |
| 17 | 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 | 5.8 | 7 |
| 16 | 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 | 3.3 | 7 |
| 15 | A Simple Glucose-Blowing Approach to Graphene-Like Foam/NiO Composites for Asymmetric Supercapacitors. <i>Energy Technology</i> , 2020 , 8, 1900923 | 3.5 | 7 |
| 14 | Pyrolysis-free covalent organic framework-based materials for efficient oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20985-21004 | 13 | 7 |
| 13 | Chain engineering of carbonyl polymers for sustainable lithium-ion batteries. <i>Materials Today</i> , 2021 , 50, 170-170 | 21.8 | 7 |
| 12 | 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 | 3.3 | 6 |
| 11 | Precise Cross-Dimensional Regulation of the Structure of a Photoreversible DNA Nanoswitch. <i>Analytical Chemistry</i> , 2019 , 91, 14530-14537 | 7.8 | 6 |
| 10 | Incorporation of redox-active polyimide binder into LiFePO ₄ cathode for high-rate electrochemical energy storage. <i>Nanotechnology Reviews</i> , 2020 , 9, 1350-1358 | 6.3 | 6 |

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| 9 | 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 | 13 | 5 |
| 8 | Tailoring oxygen evolution reaction activity of metal-oxide spinel nanoparticles via judiciously regulating surface-capping polymers. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20375-20384 | 13 | 5 |
| 7 | Pyrolysis-free synthesis of single-atom cobalt catalysts for efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , | 13 | 4 |
| 6 | A novel photosensitive dual-sensor for simultaneous detection of nucleic acids and small chemical molecules. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 108-117 | 11.8 | 4 |
| 5 | In-situ confinement of ultras-small SnO ₂ nanocrystals into redox-active polyimides for high-rate and long-cycling anode materials. <i>Composites Communications</i> , 2021 , 23, 100561 | 6.7 | 3 |
| 4 | 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 | 8.6 | 2 |
| 3 | Controlled fabrication of nitrogen-doped carbon hollow nanospheres for high-performance supercapacitors. <i>Reactive and Functional Polymers</i> , 2019 , 144, 104349 | 4.6 | 1 |
| 2 | Heteroatom-doped graphene-based electrocatalysts for ORR, OER, and HER 2022 , 145-168 | | 0 |
| 1 | Electrocatalysis: Simultaneously Crafting Single-Atomic Fe Sites and Graphitic Layer-Wrapped Fe ₃ C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction (Adv. Funct. Mater. 10/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170064 | 15.6 | |