

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7709876/xiao-chen-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|-------------------|-------------------------|-----------------|-----------------|
| 65 papers | 3,679 citations | 32 h-index | 60 g-index |
| 76 ext. papers | 5,142 ext. citations | 15.6 avg, IF | 5.96 L-index |

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 65 | Tuning element distribution, structure and properties by composition in high-entropy alloys. <i>Nature</i> , 2019 , 574, 223-227 | 50.4 | 404 |
| 64 | Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802768 | 21.8 | 347 |
| 63 | Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903813 | 24 | 215 |
| 62 | Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9171-9176 | 16.4 | 206 |
| 61 | Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3779-3783 | 16.4 | 204 |
| 60 | Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium-sulfur batteries. <i>Information Materials</i> , 2019 , 1, 533-541 | 23.1 | 196 |
| 59 | Framework-Porphyrin-Derived Single-Atom Bifunctional Oxygen Electrocatalysts and their Applications in Zn-Air Batteries. <i>Advanced Materials</i> , 2019 , 31, e1900592 | 24 | 179 |
| 58 | A Nanosized CoNi Hydroxide@Hydroxysulfide Core-Shell Heterostructure for Enhanced Oxygen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1805658 | 24 | 144 |
| 57 | Formation Mechanism of Freestanding CH ₃ NH ₃ PbI ₃ Functional Crystals: In Situ Transformation vs Dissolution-Crystallization. <i>Chemistry of Materials</i> , 2014 , 26, 6705-6710 | 9.6 | 130 |
| 56 | Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9011-9017 | 16.4 | 106 |
| 55 | Low-cost SnS(x) counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2013 , 49, 5793-5 | 5.8 | 99 |
| 54 | Thermal-Induced Volmer-Weber Growth Behavior for Planar Heterojunction Perovskites Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 5116-5121 | 9.6 | 92 |
| 53 | Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2012-2022 | 16.4 | 84 |
| 52 | Rational design of a tubular, interlayer expanded MoS ₂ /O doped carbon composite for excellent potassium-ion storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9305-9315 | 13 | 71 |
| 51 | A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. <i>Advanced Materials</i> , 2019 , 31, e1804217 | 24 | 70 |
| 50 | Surface Electronic Modification of Perovskite Thin Film with Water-Resistant Electron Delocalized Molecules for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , 2018 , 8, 1703143 | 21.8 | 62 |
| 49 | Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020 , 132, 9256-9261 | 3.6 | 59 |

| | | | |
|----|---|------|----|
| 48 | A Band-Edge Potential Gradient Heterostructure to Enhance Electron Extraction Efficiency of the Electron Transport Layer in High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1700878 | 15.6 | 58 |
| 47 | Precise anionic regulation of NiFe hydroxysulfide assisted by electrochemical reactions for efficient electrocatalysis. <i>Energy and Environmental Science</i> , 2020 , 13, 1711-1716 | 35.4 | 57 |
| 46 | A \approx 0.63 V Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries. <i>Advanced Materials</i> , 2021 , 33, e2008606 | 24 | 55 |
| 45 | Uniform Lithium Nucleation Guided by Atomically Dispersed Lithiophilic CoNx Sites for Safe Lithium Metal Batteries. <i>Small Methods</i> , 2019 , 3, 1800354 | 12.8 | 51 |
| 44 | Silicon Carbide as a Protective Layer to Stabilize Si-Based Anodes by Inhibiting Chemical Reactions. <i>Nano Letters</i> , 2019 , 19, 5124-5132 | 11.5 | 48 |
| 43 | High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , 2021 , 591, 385-390 | 50.4 | 47 |
| 42 | Dopant Segregation Boosting High-Voltage Cyclability of Layered Cathode for Sodium Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1904816 | 24 | 46 |
| 41 | Surface-functionalized perovskite films for stable photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 910-913 | 13 | 44 |
| 40 | Single-Step Conversion of H ₂ -Deficient Syngas into High Yield of Tetramethylbenzene. <i>ACS Catalysis</i> , 2019 , 9, 2203-2212 | 13.1 | 42 |
| 39 | Selective Etching Quaternary MAX Phase toward Single Atom Copper Immobilized MXene (Ti ₃ CCl) for Efficient CO Electroreduction to Methanol. <i>ACS Nano</i> , 2021 , 15, 4927-4936 | 16.7 | 41 |
| 38 | A Solution-Processed Transparent NiO Hole-Extraction Layer for High-Performance Inverted Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2018 , 24, 2845-2849 | 4.8 | 40 |
| 37 | Atomic Spatial and Temporal Imaging of Local Structures and Light Elements inside Zeolite Frameworks. <i>Advanced Materials</i> , 2020 , 32, e1906103 | 24 | 38 |
| 36 | Battery Separators Functionalized with Edge-Rich MoS ₂ /C Hollow Microspheres for the Uniform Deposition of LiS in High-Performance Lithium-Sulfur Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 43 | 19.5 | 37 |
| 35 | Multiscale Construction of Bifunctional Electrocatalysts for Long-Lifespan Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2003619 | 15.6 | 34 |
| 34 | Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie</i> , 2019 , 131, 3819-3823 | 3.6 | 34 |
| 33 | Perovskite Quantum Dots Encapsulated in a Mesoporous Metal-Organic Framework as Synergistic Photocathode Materials. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14253-14260 | 16.4 | 29 |
| 32 | A single-molecule van der Waals compass. <i>Nature</i> , 2021 , 592, 541-544 | 50.4 | 28 |
| 31 | Imaging the node-linker coordination in the bulk and local structures of metal-organic frameworks. <i>Nature Communications</i> , 2020 , 11, 2692 | 17.4 | 27 |

| | | | |
|----|--|------|----|
| 30 | A novel strategy to prepare a PtSnO ₂ nanocomposite as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17253-17257 | 13 | 27 |
| 29 | Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie</i> , 2020 , 132, 9096-9102 | 3.6 | 21 |
| 28 | Direct insight into crystallization and stability of hybrid perovskite CH ₃ NH ₃ PbI ₃ via solvothermal synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15854-15857 | 13 | 20 |
| 27 | Suppressing the Side Reaction by a Selective Blocking Layer to Enhance the Performance of Si-Based Anodes. <i>Nano Letters</i> , 2020 , 20, 5176-5184 | 11.5 | 20 |
| 26 | Cobalt Nanoparticles and Atomic Sites in Nitrogen-Doped Carbon Frameworks for Highly Sensitive Sensing of Hydrogen Peroxide. <i>Small</i> , 2020 , 16, e1902860 | 11 | 17 |
| 25 | Formation of high-quality perovskite thin film for planar heterojunction solar cells. <i>RSC Advances</i> , 2015 , 5, 69502-69508 | 3.7 | 15 |
| 24 | A clicking confinement strategy to fabricate transition metal single-atom sites for bifunctional oxygen electrocatalysis.. <i>Science Advances</i> , 2022 , 8, eabn5091 | 14.3 | 14 |
| 23 | Direct Chirality Recognition of Single-Crystalline and Single-Walled Transition Metal Oxide Nanotubes on Carbon Nanotube Templates. <i>Advanced Materials</i> , 2018 , 30, e1803368 | 24 | 10 |
| 22 | Superdurable Bifunctional Oxygen Electrocatalyst for High-Performance Zinc-Air Batteries.. <i>Journal of the American Chemical Society</i> , 2022 , | 16.4 | 9 |
| 21 | Atomic-dispersed copper simultaneously achieve high-efficiency removal and high-value-added conversion to ammonia of nitrate in sewage. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127319 | 12.8 | 9 |
| 20 | High-Entropy Carbonitride MAX Phases and Their Derivative MXenes. <i>Advanced Energy Materials</i> , 2022 , 12, 2103228 | 21.8 | 9 |
| 19 | In situ imaging of the sorption-induced subcell topological flexibility of a rigid zeolite framework.. <i>Science</i> , 2022 , 376, 491-496 | 33.3 | 9 |
| 18 | Two-Dimensional Metal-Organic Framework Nanosheet Supported Noble Metal Nanocrystals for High-Efficiency Water Oxidation. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002034 | 4.6 | 7 |
| 17 | Thermally Induced Crystallization of High Quality CH ₃ NH ₃ PbI ₃ Film with Large Grains for Highly Efficient Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2017 , 23, 5658-5662 | 4.8 | 6 |
| 16 | Resolving atomic SAPO-34/18 intergrowth architectures for methanol conversion by identifying light atoms and bonds. <i>Nature Communications</i> , 2021 , 12, 2212 | 17.4 | 6 |
| 15 | Hierarchically porous Fe,N-doped carbon nanorods derived from 1D Fe-doped MOFs as highly efficient oxygen reduction electrocatalysts in both alkaline and acidic media. <i>Nanoscale</i> , 2021 , 13, 10500-10508 | 7.7 | 6 |
| 14 | Novel PtO decorated MWCNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 8307-8310 | 3.7 | 5 |
| 13 | Synergistic Effect of Mn Formation-Migration and Oxygen Loss on the Near Surface and Bulk Structural Changes in Single Crystalline Lithium-Rich Oxides. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3891-3898 | 9.5 | 5 |

| | | | |
|----|---|------|---|
| 12 | Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-on-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties.. <i>Advanced Materials</i> , 2022 , e2107721 | 24 | 4 |
| 11 | Zinc-Air Batteries: A ≈ 0.63 V Bifunctional Oxygen Electrocatalyst Enables High-Rate and Long-Cycling Zinc-Air Batteries (Adv. Mater. 15/2021). <i>Advanced Materials</i> , 2021 , 33, 2170117 | 24 | 4 |
| 10 | Rational Design of Zinc/Zeolite Catalyst: Selective Formation of p-Xylene from Methanol to Aromatics Reaction.. <i>Angewandte Chemie - International Edition</i> , 2022 , | 16.4 | 2 |
| 9 | Ultrafast Nonvolatile Ionic Liquids-Based Supercapacitors with Al Foam-Enhanced Carbon Electrode. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53904-53914 | 9.5 | 2 |
| 8 | Analytical expression for predicting the reduced settling velocity of small particles in turbulence. <i>Environmental Fluid Mechanics</i> , 2020 , 20, 905-922 | 2.2 | 2 |
| 7 | Synergetic effect of high Ni ratio and low oxygen defect interface zone of single crystals on the capacity retention of lithium rich layered oxides. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 485-492 | 9.3 | 2 |
| 6 | Rücktitelbild: Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion (Angew. Chem. 23/2020). <i>Angewandte Chemie</i> , 2020 , 132, 9278-9278 | 3.6 | 1 |
| 5 | Highly Selective Conversion of CO ₂ or CO into Precursors for Kerosene-Based Aviation Fuel via an Aldol-Aromatic Mechanism. <i>ACS Catalysis</i> , 2022 , 12, 2023-2033 | 13.1 | 1 |
| 4 | Innentitelbild: Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal (Angew. Chem. 12/2019). <i>Angewandte Chemie</i> , 2019 , 131, 3692-3692 | 3.6 | 1 |
| 3 | A current-limiting DC circuit breaker with power flow control capability. <i>IET Generation, Transmission and Distribution</i> , 2022 , 16, 1877-1889 | 2.5 | 0 |
| 2 | Atom-dispersed copper and nano-palladium in the boron-carbon-nitrogen matrix cooperate to realize the efficient purification of nitrate wastewater and the electrochemical synthesis of ammonia.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128909 | 12.8 | 0 |
| 1 | Hybridization of iron phthalocyanine and MoS ₂ for high-efficiency and durable oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2022 , 71, 528-538 | 12 | 0 |