

Li-Rong Zheng

List of Publications by Year in descending order

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892
papers

58,823
citations

967

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1964

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914
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914
docs citations

914
times ranked

44694
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Diffusionless-Like Transformation Unlocks Pseudocapacitance with Bulk Utilization: Reinventing Fe ₂ O ₃ in Alkaline Electrolyte. Energy and Environmental Materials, 2023, 6, . | 7.3 | 20 |
| 2 | Switching Optimally Balanced Fe-N Interaction Enables Extremely Stable Energy Storage. Energy and Environmental Materials, 2023, 6, . | 7.3 | 29 |
| 3 | A Domain-Specific Accelerator for Ultralow Latency Market Data Distribution System. IEEE Transactions on Industrial Informatics, 2023, 19, 5465-5475. | 7.2 | 1 |
| 4 | Different mechanisms of improving CH ₃ NH ₃ PbI ₃ perovskite solar cells brought by fluorinated or nitrogen doped graphdiyne. Nano Research, 2022, 15, 573-580. | 5.8 | 15 |
| 5 | Boosting Efficient Ammonia Synthesis over Atomically Dispersed Co-Based Catalyst via the Modulation of Geometric and Electronic Structures. CCS Chemistry, 2022, 4, 1758-1769. | 4.6 | 7 |
| 6 | Ionic-liquid-assisted synthesis of metal single-atom catalysts for benzene oxidation to phenol. Science China Materials, 2022, 65, 163-169. | 3.5 | 13 |
| 7 | A Design of Smart Unmanned Vending Machine for New Retail Based on Binocular Camera and Machine Vision. IEEE Consumer Electronics Magazine, 2022, 11, 21-31. | 2.3 | 10 |
| 8 | Bioavailability and methylation of bulk mercury sulfide in paddy soils: New insights into mercury risks in rice paddies. Journal of Hazardous Materials, 2022, 424, 127394. | 6.5 | 9 |
| 9 | Optimization of the Coupling Coefficient of the Inductive Link for Wireless Power Transfer to Biomedical Implants. International Journal of Antennas and Propagation, 2022, 2022, 1-12. | 0.7 | 6 |
| 10 | Alcohols electrooxidation coupled with H ₂ production at high current densities promoted by a cooperative catalyst. Nature Communications, 2022, 13, 147. | 5.8 | 133 |
| 11 | Ultra-small Ru nanoparticles embedded on Fe-Ni(OH) ₂ nanosheets for efficient water splitting at a large current density with long-term stability of 680 hours. Journal of Materials Chemistry A, 2022, 10, 4817-4824. | 5.2 | 46 |
| 12 | A Bioinspired Five-Coordinate Single-Atom Iron Nanozyme for Tumor Catalytic Therapy. Advanced Materials, 2022, 34, e2107088. | 11.1 | 133 |
| 13 | Anchoring Ionic Liquid in Copper Electrocatalyst for Improving CO ₂ Conversion to Ethylene. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 44 |
| 14 | Efficient Role of Nanosheet-Like Pr ₂ O ₃ Induced Surface-Interface Synergistic Structures over Cu-Based Catalysts for Enhanced Methanol Production from CO ₂ Hydrogenation. ACS Applied Materials & Interfaces, 2022, 14, 2768-2781. | 4.0 | 9 |
| 15 | Edge-Based Collaborative Training System for Artificial Intelligence-of-Things. IEEE Transactions on Industrial Informatics, 2022, 18, 7162-7173. | 7.2 | 7 |
| 16 | Self-Adaptive Single-Atom Catalyst Boosting Selective Ferroptosis in Tumor Cells. ACS Nano, 2022, 16, 855-868. | 7.3 | 84 |
| 17 | Anchoring Ionic Liquid in Copper Electrocatalyst for Improving CO ₂ Conversion to Ethylene. Angewandte Chemie, 2022, 134, . | 1.6 | 4 |
| 18 | Electrochemical Strategy for the Simultaneous Production of Cyclohexanone and Benzoquinone by the Reaction of Phenol and Water. Journal of the American Chemical Society, 2022, 144, 1556-1571. | 6.6 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Studies of a Highly Active Cobalt Atomic Cluster Catalyst for Ammonia Synthesis. ACS Sustainable Chemistry and Engineering, 2022, 10, 1951-1960. | 3.2 | 11 |
| 20 | Site-Specific Axial Oxygen Coordinated FeN ₄ Active Sites for Highly Selective Electroreduction of Carbon Dioxide. Advanced Functional Materials, 2022, 32, . | 7.8 | 38 |
| 21 | Single Co Sites in Ordered SiO ₂ Channels for Boosting Nonoxidative Propane Dehydrogenation. ACS Catalysis, 2022, 12, 2632-2638. | 5.5 | 52 |
| 22 | Integrating Dissociative and Associative Routes for Efficient Ammonia Synthesis over a TiCN-Promoted Ru-Based Catalyst. ACS Catalysis, 2022, 12, 2651-2660. | 5.5 | 18 |
| 23 | Selective catalytic oxidation of ammonia to nitric oxide via chemical looping. Nature Communications, 2022, 13, 718. | 5.8 | 18 |
| 24 | Uniform single atomic Cu ₁ -C ₄ sites anchored in graphdiyne for hydroxylation of benzene to phenol. National Science Review, 2022, 9, . | 4.6 | 22 |
| 25 | Iron Single-Atom Catalysts Boost Photoelectrochemical Detection by Integrating Interfacial Oxygen Reduction and Enzyme-Mimicking Activity. ACS Nano, 2022, 16, 2997-3007. | 7.3 | 63 |
| 26 | Interfacial Fe-O-Ni-O-Fe Bonding Regulates the Active Ni Sites of Ni-MOFs via Iron Doping and Decorating with FeOOH for Super-Efficient Oxygen Evolution. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 159 |
| 27 | 3.4% Solar-to-Ammonia Efficiency from Nitrate Using Fe Single Atomic Catalyst Supported on MoS ₂ Nanosheets. Advanced Functional Materials, 2022, 32, . | 7.8 | 71 |
| 28 | A Hybrid-Mode On-Chip Router for the Large-Scale FPGA-Based Neuromorphic Platform. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1990-2001. | 3.5 | 3 |
| 29 | Spatial porosity design of Fe-N-C catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. Journal of Materials Chemistry A, 2022, 10, 7764-7772. | 5.2 | 11 |
| 30 | Efficient ambient ammonia synthesis by Lewis acid pair over cobalt single atom catalyst with suppressed proton reduction. Journal of Materials Chemistry A, 2022, 10, 8432-8439. | 5.2 | 11 |
| 31 | Oxygen vacancy content drives self-reduction and anti-thermal quenching. Journal of Materials Chemistry C, 2022, 10, 4317-4326. | 2.7 | 20 |
| 32 | Few-Shot Network Intrusion Detection Using Discriminative Representation Learning with Supervised Autoencoder. Applied Sciences (Switzerland), 2022, 12, 2351. | 1.3 | 11 |
| 33 | Hierarchical Architecture of Well-Aligned Nanotubes Supported Bimetallic Catalysis for Efficient Oxygen Redox. Advanced Functional Materials, 2022, 32, . | 7.8 | 20 |
| 34 | Al ³⁺ Dopants Induced Mg ²⁺ Vacancies Stabilizing Single-Atom Cu Catalyst for Efficient Free-Radical Hydrophosphinylation of Alkenes. Journal of the American Chemical Society, 2022, 144, 4321-4326. | 6.6 | 32 |
| 35 | Single-Atom Fe Catalysts for Fenton-Like Reactions: Roles of Different N Species. Advanced Materials, 2022, 34, e2110653. | 11.1 | 158 |
| 36 | Modulating the Electronic Metal-Support Interactions in Single-Atom Pt ₁ -CuO Catalyst for Boosting Acetone Oxidation. Angewandte Chemie, 2022, 134, . | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Intense Luminescence and Good Thermal Stability in a Mn ²⁺ -Activated Mg-Based Phosphor with Self-Reduction. <i>Inorganic Chemistry</i> , 2022, 61, 5495-5501. | 1.9 | 13 |
| 38 | Breaking the activity limitation of iridium single-atom catalyst in hydrogenation of quinoline with synergistic nanoparticles catalysis. <i>Nano Research</i> , 2022, 15, 5024-5031. | 5.8 | 41 |
| 39 | Facilitating Reversible Cation Migration and Suppressing O ₂ Escape for High Performance Li-Rich Oxide Cathodes. <i>Small</i> , 2022, 18, e2201014. | 5.2 | 28 |
| 40 | Encapsulating atomic molybdenum into hierarchical nitrogen-doped carbon nanoboxes for efficient oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 67-76. | 5.0 | 7 |
| 41 | Spectroscopic investigations and density functional theory calculations reveal differences in retention mechanisms of lead and copper on chemically-modified phytolith-rich biochars. <i>Chemosphere</i> , 2022, 301, 134590. | 4.2 | 6 |
| 42 | Promoted Electron Transfer and Surface Absorption by Single Nickel Atoms for Photocatalytic Cross-Coupling of Aromatic Alcohols and Aliphatic Amines under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18383-18392. | 4.0 | 23 |
| 43 | Surface Ligand Tuning of Coordination Geometry and Pb 6s ² Electronic Pair Stereochemical Activity in MAPbBr ₃ Perovskite Nanoparticles: A Joint Experimental and Theoretical Insight. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7500-7509. | 1.5 | 4 |
| 44 | Backpropagation With Sparsity Regularization for Spiking Neural Network Learning. <i>Frontiers in Neuroscience</i> , 2022, 16, 760298. | 1.4 | 10 |
| 45 | 3.4% Solar-to-Ammonia Efficiency from Nitrate Using Fe Single Atomic Catalyst Supported on MoS ₂ Nanosheets (Adv. Funct. Mater. 18/2022). <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 1 |
| 46 | Construction of Porphyrin Porous Organic Cage as a Support for Single Cobalt Atoms for Photocatalytic Oxidation in Visible Light. <i>ACS Catalysis</i> , 2022, 12, 5827-5833. | 5.5 | 23 |
| 47 | Cognitive workload evaluation of landmarks and routes using virtual reality. <i>PLoS ONE</i> , 2022, 17, e0268399. | 1.1 | 0 |
| 48 | Iron atom-cluster interactions increase activity and improve durability in Fe-N-C fuel cells. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 159 |
| 49 | High-content atomically distributed W(_v , _{vi}) on FeCo layered double hydroxide with high oxygen evolution reaction activity. <i>Chemical Communications</i> , 2022, 58, 7678-7681. | 2.2 | 5 |
| 50 | Integrating single Co sites into crystalline covalent triazine frameworks for photoreduction of CO ₂ . <i>Chemical Communications</i> , 2022, 58, 8121-8124. | 2.2 | 13 |
| 51 | Plasmon-Boosted Fe, Co Dual Single-Atom Catalysts for Ultrasensitive Luminol-Dissolved O ₂ Electrochemiluminescence Detection of Prostate-Specific Antigen. <i>Analytical Chemistry</i> , 2022, 94, 9758-9765. | 3.2 | 35 |
| 52 | An IoT-based intelligent irrigation system with data fusion and a self-powered wide-area network. <i>Journal of Industrial Information Integration</i> , 2022, 29, 100367. | 4.3 | 6 |
| 53 | Light-Induced Structural Dynamic Evolution of Pt Single Atoms for Highly Efficient Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26752-26765. | 4.0 | 10 |
| 54 | Single-Atom Iron Enables Strong Low-Trigging-Potential Luminol Cathodic Electrochemiluminescence. <i>Analytical Chemistry</i> , 2022, 94, 9459-9465. | 3.2 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Essential Role of Ru ^{II} -Anion Interaction in Ru-Based Ammonia Synthesis Catalysts. ACS Catalysis, 2022, 12, 7633-7642. | 5.5 | 13 |
| 56 | A Neuromorphic Processing System With Spike-Driven SNN Processor for Wearable ECG Classification. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 511-523. | 2.7 | 24 |
| 57 | A Wearable Hand Rehabilitation System With Soft Gloves. IEEE Transactions on Industrial Informatics, 2021, 17, 943-952. | 7.2 | 93 |
| 58 | <i>Operando</i> X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. Energy and Environmental Science, 2021, 14, 906-915. | 15.6 | 93 |
| 59 | Enhancing CO ₂ Electrocatalysis on 2D Porphyrin-Based Metal-Organic Framework Nanosheets Coupled with Visible Light. Small Methods, 2021, 5, e2000991. | 4.6 | 50 |
| 60 | Unraveling the real active sites of an amorphous silica-alumina-supported nickel catalyst for highly efficient ethylene oligomerization. Catalysis Science and Technology, 2021, 11, 1510-1518. | 2.1 | 16 |
| 61 | Porous γ -Fe ₂ O ₃ nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. Nano Research, 2021, 14, 1435-1442. | 5.8 | 46 |
| 62 | A blockchain-based architecture for secure and trustworthy operations in the industrial Internet of Things. Journal of Industrial Information Integration, 2021, 21, 100190. | 4.3 | 67 |
| 63 | Electric Field and Transmitting Power Analysis of Segmented and Unsegmented Loop Antennas for Transcutaneous Power Transfer. IEEE Transactions on Antennas and Propagation, 2021, 69, 3485-3492. | 3.1 | 2 |
| 64 | A Nonoxide Catalyst System Study: Alkali Metal-Promoted Pt/AC Catalyst for Formaldehyde Oxidation at Ambient Temperature. ACS Catalysis, 2021, 11, 456-465. | 5.5 | 60 |
| 65 | An End to End Recognition for License Plates Using Convolutional Neural Networks. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 177-188. | 2.6 | 12 |
| 66 | Highly efficient ammonia synthesis at low temperature over a Ru-Co catalyst with dual atomically dispersed active centers. Chemical Science, 2021, 12, 7125-7137. | 3.7 | 35 |
| 67 | N coupling with S-coordinated Ru nanoclusters for highly efficient hydrogen evolution in alkaline media. Journal of Materials Chemistry A, 2021, 9, 12659-12669. | 5.2 | 26 |
| 68 | Biomimetic caged platinum catalyst for hydrosilylation reaction with high site selectivity. Nature Communications, 2021, 12, 64. | 5.8 | 16 |
| 69 | Direct synthesis of 1T-phase MoS ₂ nanosheets with abundant sulfur-vacancies through (CH ₃) ₄ N ⁺ cation-intercalation for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 13996-14003. | 5.2 | 17 |
| 70 | A rational design of an efficient counter electrode with the Co/Co ₁ P ₁ N ₃ atomic interface for promoting catalytic performance. Materials Chemistry Frontiers, 2021, 5, 3085-3092. | 3.2 | 8 |
| 71 | N-Induced Electron Transfer Effect on Low-Temperature Activation of Nitrogen for Ammonia Synthesis over Co-Based Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 1529-1539. | 3.2 | 11 |
| 72 | Quasi-double-star nickel and iron active sites for high-efficiency carbon dioxide electroreduction. Energy and Environmental Science, 2021, 14, 4847-4857. | 15.6 | 43 |

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|----|---|------|-----------|
| 73 | Coordinately unsaturated O _{2c} â€“Ti _{5c} â€“O _{2c} sites promote the reactivity of Pt/TiO ₂ catalysts in the solvent-free oxidation of <i>n</i> -octanol. Catalysis Science and Technology, 2021, 11, 4898-4910. | 2.1 | 6 |
| 74 | Air atmospheric photocatalytic oxidation by ultrathin C,N-TiO ₂ nanosheets. Green Chemistry, 2021, 23, 1165-1170. | 4.6 | 13 |
| 75 | Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. Angewandte Chemie, 2021, 133, 2401-2408. | 1.6 | 13 |
| 76 | The <i>in situ</i> study of surface species and structures of oxide-derived copper catalysts for electrochemical CO ₂ reduction. Chemical Science, 2021, 12, 5938-5943. | 3.7 | 40 |
| 77 | An Evidence-Based Intelligent Method for Upper-Limb Motor Assessment via a VR Training System on Stroke Rehabilitation. IEEE Access, 2021, 9, 65871-65881. | 2.6 | 16 |
| 78 | Innentitelbild: Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process (Angew. Chem. 5/2021). Angewandte Chemie, 2021, 133, 2198-2198. | 1.6 | 0 |
| 79 | Monomeric vanadium oxide: a very efficient species for promoting aerobic oxidative dehydrogenation of N-heterocycles. New Journal of Chemistry, 2021, 45, 431-437. | 1.4 | 1 |
| 80 | Atomically Dispersed Feâ€“Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. ACS Energy Letters, 2021, 6, 379-386. | 8.8 | 167 |
| 81 | Mitigating the P2â€“O2 transition and Na ⁺ /vacancy ordering in Na _{2/3} Ni _{1/3} Mn _{2/3} O ₂ by anion/cation dual-doping for fast and stable Na ⁺ insertion/extraction. Journal of Materials Chemistry A, 2021, 9, 10803-10811. | 5.2 | 23 |
| 82 | A novel Fe/N/C electrocatalyst prepared from a carbon-supported iron(ii) complex of macrocyclic ligands for oxygen reduction reaction. RSC Advances, 2021, 11, 8437-8443. | 1.7 | 5 |
| 83 | Identifying the Activity Origin of a Cobalt Single-Atom Catalyst for Hydrogen Evolution Using Supervised Learning. Advanced Functional Materials, 2021, 31, 2100547. | 7.8 | 93 |
| 84 | Notched-Polyoxometalate Strategy to Fabricate Atomically Dispersed Ru Catalysts for Biomass Conversion. ACS Catalysis, 2021, 11, 2669-2675. | 5.5 | 34 |
| 85 | Single-Atom-Based Heterojunction Coupling with Ion-Exchange Reaction for Sensitive Photoelectrochemical Immunoassay. Nano Letters, 2021, 21, 1879-1887. | 4.5 | 86 |
| 86 | An IoT-Based Life Cycle Assessment Platform of Wind Turbines. Sensors, 2021, 21, 1233. | 2.1 | 16 |
| 87 | Construction of Dual-Active-Site Copper Catalyst Containing both Cu ₃ and Cu ₄ Sites. Small, 2021, 17, e2006834. | 5.2 | 52 |
| 88 | Ultrastable FeCo Bifunctional Electrocatalyst on Se-Doped CNTs for Liquid and Flexible All-Solid-State Rechargeable Znâ€“Air Batteries. Nano Letters, 2021, 21, 2255-2264. | 4.5 | 120 |
| 89 | Oxygen Reduction Reaction: Mn ₄ Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zincâ€“Air Battery (Adv. Energy Mater. 6/2021). Advanced Energy Materials, 2021, 11, 2170025. | 10.2 | 0 |
| 90 | Highly Efficient NO Abatement over Cu-ZSM-5 with Special Nanosheet Features. Environmental Science & Technology, 2021, 55, 5422-5434. | 4.6 | 42 |

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|-----|--|-----|-----------|
| 91 | Peroxo Species Formed in the Bulk of Silicate Cathodes. <i>Angewandte Chemie</i> , 2021, 133, 10144-10151. | 1.6 | 2 |
| 92 | Peroxo Species Formed in the Bulk of Silicate Cathodes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10056-10063. | 7.2 | 5 |
| 93 | Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH)~C Bond Cleavage by a Mn~Doped Cobalt Oxyhydroxide Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 9058-9064. | 1.6 | 22 |
| 94 | Tuning Co ²⁺ Coordination in Cobalt Layered Double Hydroxide Nanosheets via Fe ³⁺ Doping for Efficient Oxygen Evolution. <i>Inorganic Chemistry</i> , 2021, 60, 5252-5263. | 1.9 | 28 |
| 95 | Construction of Spatial Effect from Atomically Dispersed Co Anchoring on Subnanometer Ru Cluster for Enhanced N ₂ -to-NH ₃ Conversion. <i>ACS Catalysis</i> , 2021, 11, 4430-4440. | 5.5 | 28 |
| 96 | Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH)~C Bond Cleavage by a Mn~Doped Cobalt Oxyhydroxide Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8976-8982. | 7.2 | 93 |
| 97 | Fe ₃ C-Assisted Single Atomic Fe Sites for Sensitive Electrochemical Biosensing. <i>Analytical Chemistry</i> , 2021, 93, 5334-5342. | 3.2 | 65 |
| 98 | Synergistic catalysis of cluster and atomic copper induced by copper-silica interface in transfer-hydrogenation. <i>Nano Research</i> , 2021, 14, 4601-4609. | 5.8 | 12 |
| 99 | Solvent coordination engineering for high-quality hybrid organic-inorganic perovskite films. <i>Journal of Materials Science</i> , 2021, 56, 9903-9913. | 1.7 | 6 |
| 100 | Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 7144-7153. | 6.6 | 42 |
| 101 | Innentitelbild: Peroxo Species Formed in the Bulk of Silicate Cathodes (<i>Angew. Chem.</i> 18/2021). <i>Angewandte Chemie</i> , 2021, 133, 9814-9814. | 1.6 | 0 |
| 102 | Neutral Zn~Air Battery Assembled with Single~Atom Iridium Catalysts for Sensitive Self~Powered Sensing System. <i>Advanced Functional Materials</i> , 2021, 31, 2101193. | 7.8 | 52 |
| 103 | An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. <i>IEEE Internet of Things Journal</i> , 2021, 8, 6789-6799. | 5.5 | 15 |
| 104 | Subsurface-Regulated PtGa Nanoparticles Confined in Silicalite-1 for Propane Dehydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16259-16266. | 4.0 | 34 |
| 105 | Magnetic~Field~Stimulated Efficient Photocatalytic N ₂ Fixation over Defective BaTiO ₃ Perovskites. <i>Angewandte Chemie</i> , 2021, 133, 12017-12025. | 1.6 | 18 |
| 106 | Surface active-site engineering in hierarchical PtNi nanocatalysts for efficient triiodide reduction reaction. <i>Nano Research</i> , 2021, 14, 4714-4718. | 5.8 | 11 |
| 107 | R~1/4~cktitelbild: Magnetic~Field~Stimulated Efficient Photocatalytic N ₂ Fixation over Defective BaTiO ₃ Perovskites (<i>Angew. Chem.</i> 21/2021). <i>Angewandte Chemie</i> , 2021, 133, 12252-12252. | 1.6 | 1 |
| 108 | Magnetic~Field~Stimulated Efficient Photocatalytic N ₂ Fixation over Defective BaTiO ₃ Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11910-11918. | 7.2 | 119 |

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|-----|--|------|-----------|
| 109 | Boosting CO ₂ Electroreduction via the Synergistic Effect of Tuning Cationic Clusters and Visible-Light Irradiation. <i>Advanced Materials</i> , 2021, 33, e2101886. | 11.1 | 21 |
| 110 | An IoT-Based Traceability Platform for Wind Turbines. <i>Energies</i> , 2021, 14, 2676. | 1.6 | 1 |
| 111 | Interface-Promoted Direct Oxidation of <i>p</i> -Arsanilic Acid and Removal of Total Arsenic by the Coupling of Peroxymonosulfate and Mn-Fe-Mixed Oxide. <i>Environmental Science & Technology</i> , 2021, 55, 7063-7071. | 4.6 | 42 |
| 112 | Ternary nickel-tungsten-copper alloy rivals platinum for catalyzing alkaline hydrogen oxidation. <i>Nature Communications</i> , 2021, 12, 2686. | 5.8 | 98 |
| 113 | Design Framework for SRAM-Based Computing-In-Memory Edge CNN Accelerators. , 2021, , . | | 4 |
| 114 | Tuning fermi level and band gap in Li ₄ Ti ₅ O ₁₂ by doping and vacancy for ultrafast Li ⁺ insertion/extraction. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5934-5945. | 1.9 | 17 |
| 115 | A Memristor Model with Concise Window Function for Spiking Brain-Inspired Computation. , 2021, , . | | 6 |
| 116 | Defect-Induced Self-Reduction and Anti-Thermal Quenching in NaZn(PO ₃) ₃ :Mn ²⁺ Red Phosphor. <i>Advanced Optical Materials</i> , 2021, 9, 2100870. | 3.6 | 69 |
| 117 | Graph-Based Spatio-Temporal Backpropagation for Training Spiking Neural Networks. , 2021, , . | | 2 |
| 118 | Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO ₂ Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16687-16692. | 7.2 | 99 |
| 119 | Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO ₂ Electroreduction to Ethylene. <i>Angewandte Chemie</i> , 2021, 133, 16823-16828. | 1.6 | 10 |
| 120 | Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. <i>Science China Materials</i> , 2021, 64, 2729-2738. | 3.5 | 28 |
| 121 | Atomically Dispersed Pt ₃ C ₁ Sites Enabling Efficient and Selective Electrocatalytic C-C Bond Cleavage in Lignin Models under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2021, 143, 9429-9439. | 6.6 | 120 |
| 122 | Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High Loadings. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15248-15253. | 7.2 | 38 |
| 123 | Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High Loadings. <i>Angewandte Chemie</i> , 2021, 133, 15376-15381. | 1.6 | 24 |
| 124 | A Memory-Efficient CNN Accelerator Using Segmented Logarithmic Quantization and Multi-Cluster Architecture. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021, 68, 2142-2146. | 2.2 | 7 |
| 125 | Modulating Oxygen Reduction Behaviors on Nickel Single-Atom Catalysts to Probe the Electrochemiluminescence Mechanism at the Atomic Level. <i>Analytical Chemistry</i> , 2021, 93, 8663-8670. | 3.2 | 48 |
| 126 | An Ultra-Low Latency Multicast Router for Large-Scale Multi-Chip Neuromorphic Processing. , 2021, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Defect-Engineered Nanozyme-Linked Receptors. <i>Small</i> , 2021, 17, e2101907. | 5.2 | 36 |
| 128 | PdBi Single-Atom Alloy Aerogels for Efficient Ethanol Oxidation. <i>Advanced Functional Materials</i> , 2021, 31, 2103465. | 7.8 | 97 |
| 129 | Modulating Coordination Environment of Single-Atom Catalysts and Their Proximity to Photosensitive Units for Boosting MOF Photocatalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 12220-12229. | 6.6 | 219 |
| 130 | Two-Dimensional-Plasmon-Boosted Iron Single-Atom Electrochemiluminescence for the Ultrasensitive Detection of Dopamine, Hemin, and Mercury. <i>Analytical Chemistry</i> , 2021, 93, 9949-9957. | 3.2 | 42 |
| 131 | DisSAGD: A Distributed Parameter Update Scheme Based on Variance Reduction. <i>Sensors</i> , 2021, 21, 5124. | 2.1 | 2 |
| 132 | An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19262-19271. | 7.2 | 275 |
| 133 | Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. <i>Science</i> , 2021, 373, 315-320. | 6.0 | 179 |
| 134 | Sustainable production of benzene from lignin. <i>Nature Communications</i> , 2021, 12, 4534. | 5.8 | 100 |
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