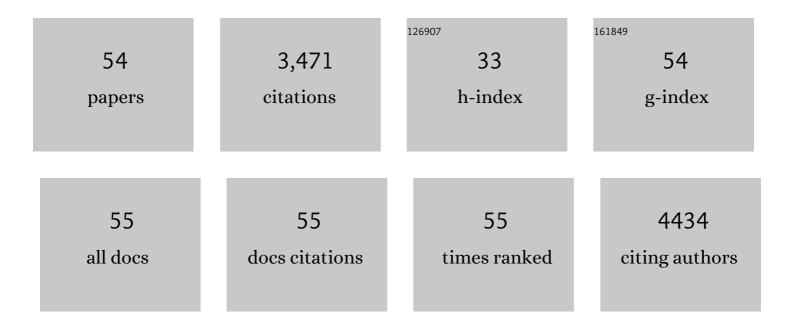
Kaiming Liao

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------------------|-----------|
| 1 | Porous cuprous oxide microcubes for non-enzymatic amperometric hydrogen peroxide and glucose sensing. Electrochemistry Communications, 2009, 11, 812-815. | 4.7 | 231 |
| 2 | Recent advances in the interface engineering of solid-state Li-ion batteries with artificial buffer layers: challenges, materials, construction, and characterization. Energy and Environmental Science, 2019, 12, 1780-1804. | 30.8 | 230 |
| 3 | A self-defense redox mediator for efficient lithium–O ₂ batteries. Energy and Environmental Science, 2016, 9, 1024-1030. | 30.8 | 224 |
| 4 | Selfâ€Catalyzed Growth of Co, Nâ€Codoped CNTs on Carbonâ€Encased CoS <i>_x</i> Surface: A Nobleâ€Metalâ€Free Bifunctional Oxygen Electrocatalyst for Flexible Solid Zn–Air Batteries. Advanced Functional Materials, 2019, 29, 1904481. | 14.9 | 217 |
| 5 | Developing a "Waterâ€Defendable―and "Dendriteâ€Free―Lithiumâ€Metal Anode Using a Simple and P GeCl ₄ Pretreatment Method. Advanced Materials, 2018, 30, e1705711. | romising 21.0 | 186 |
| 6 | Reducing the charging voltage of a Li–O ₂ battery to 1.9 V by incorporating a photocatalyst. Energy and Environmental Science, 2015, 8, 2664-2667. | 30.8 | 147 |
| 7 | Superior Performance of a Li–O ₂ Battery with Metallic RuO ₂ Hollow Spheres as the Carbonâ€Free Cathode. Advanced Energy Materials, 2015, 5, 1500294. | 19.5 | 139 |
| 8 | An oxygen cathode with stable full discharge–charge capability based on 2D conducting oxide. Energy and Environmental Science, 2015, 8, 1992-1997. | 30.8 | 113 |
| 9 | Flexible, Flameâ€Resistant, and Dendriteâ€Impermeable Gelâ€Polymer Electrolyte for Li–O ₂ /Air Batteries Workable Under Hurdle Conditions. Small, 2018, 14, e1801798. | 10.0 | 113 |
| 10 | Stabilization of polysulfides via lithium bonds for Li–S batteries. Journal of Materials Chemistry A, 2016, 4, 5406-5409. | 10.3 | 105 |
| 11 | Nanoporous Ru as a Carbon―and Binderâ€Free Cathode for Li–O ₂ Batteries. ChemSusChem, 2015, 8, 1429-1434. | 6.8 | 104 |
| 12 | Smart Construction of an Intimate Lithium Garnet Interface for Allâ€Solidâ€State Batteries by Tuning the Tension of Molten Lithium. Advanced Functional Materials, 2021, 31, 2101556. | 14.9 | 97 |
| 13 | A long-life lithium ion oxygen battery based on commercial silicon particles as the anode. Energy and Environmental Science, 2016, 9, 3262-3271. | 30.8 | 89 |
| 14 | Recent Advances in Filler Engineering of Polymer Electrolytes for Solid-State Li-Ion Batteries: A Review. Energy & Fuels, 2020, 34, 9189-9207. | 5.1 | 89 |
| 15 | Rich atomic interfaces between sub-1 nm RuOx clusters and porous Co3O4 nanosheets boost oxygen electrocatalysis bifunctionality for advanced Zn-air batteries. Energy Storage Materials, 2020, 32, 20-29. | 18.0 | 84 |
| 16 | Facile in Situ Preparation of Graphitic-C ₃ N ₄ @carbon Paper As an Efficient Metal-Free Cathode for Nonaqueous Li–O ₂ Battery. ACS Applied Materials & Interfaces, 2015, 7, 10823-10827. | 8.0 | 75 |
| 17 | Water-proof, electrolyte-nonvolatile, and flexible Li-Air batteries via O2-Permeable silica-aerogel-reinforced polydimethylsiloxane external membranes. Energy Storage Materials, 2020, 27, 297-306. | 18.0 | 69 |
| 18 | Recent Advances in Emerging Metal– and Covalent–Organic Frameworks for Enzyme Encapsulation. ACS Applied Materials & Interfaces, 2021, 13, 56752-56776. | 8.0 | 67 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Spongeâ€Like Cathode Material Selfâ€Assembled from Twoâ€Dimensional V ₂ O ₅ Nanosheets for Sodiumâ€lon Batteries. ChemElectroChem, 2015, 2, 1660-1664. | 3.4 | 65 |
| 20 | Direct growth of ordered Nâ€doped carbon nanotube arrays on carbon fiber cloth as a freeâ€standing and binderâ€free air electrode for flexible quasiâ€solidâ€state rechargeable Znâ€Air batteries. , 2020, 2, 461-471. | | 64 |
| 21 | Lowering the charge voltage of Li–O ₂ batteries via an unmediated photoelectrochemical oxidation approach. Journal of Materials Chemistry A, 2016, 4, 12411-12415. | 10.3 | 59 |
| 22 | A smart lithiophilic polymer filler in gel polymer electrolyte enables stable and dendrite-free Li metal anode. Journal of Materials Chemistry A, 2020, 8, 9733-9742. | 10.3 | 53 |
| 23 | Realizing fourfold enhancement in conductivity of perovskite Li0.33La0.557TiO3 electrolyte membrane via a Sr and Ta co-doping strategy. Journal of Membrane Science, 2019, 582, 194-202. | 8.2 | 51 |
| 24 | An "electronegative†bifunctional coating layer: simultaneous regulation of polysulfide and Li-ion adsorption sites for long-cycling and "dendrite-free†Li–S batteries. Journal of Materials Chemistry A, 2019, 7, 22463-22474. | 10.3 | 49 |
| 25 | Ultralong Cycle Life Li–O ₂ Battery Enabled by a MOF-Derived Ruthenium–Carbon Composite Catalyst with a Durable Regenerative Surface. ACS Applied Materials & Interfaces, 2019, 11, 20091-20097. | 8.0 | 46 |
| 26 | Tailoring charge and mass transport in cation/anion-codoped Ni3N / N-doped CNT integrated electrode toward rapid oxygen evolution for fast-charging zinc-air batteries. Energy Storage Materials, 2021, 39, 11-20. | 18.0 | 44 |
| 27 | Rational design of strontium antimony co-doped Li7La3Zr2O12 electrolyte membrane for solid-state lithium batteries. Journal of Alloys and Compounds, 2019, 794, 347-357. | 5.5 | 42 |
| 28 | Co2P nanostructures constructed by nanorods: hydrothermal synthesis and applications in the removal of heavy metal ions. New Journal of Chemistry, 2009, 33, 2055. | 2.8 | 40 |
| 29 | In situ template route for synthesis of porous Ni12P5 superstructures and their applications in environmental treatments. CrystEngComm, 2010, 12, 1568. | 2.6 | 40 |
| 30 | A simple strategy that may effectively tackle the anode-electrolyte interface issues in solid-state lithium metal batteries. Chemical Engineering Journal, 2022, 427, 131001. | 12.7 | 38 |
| 31 | Hydrothermal synthesis of Ni12P5 hollow microspheres, characterization and photocatalytic degradation property. Journal of Colloid and Interface Science, 2009, 332, 231-236. | 9.4 | 36 |
| 32 | A cobalt and nickel co-modified layered P2-Na2/3Mn1/2Fe1/2O2 with excellent cycle stability for high-energy density sodium-ion batteries. Journal of Alloys and Compounds, 2019, 775, 383-392. | 5.5 | 36 |
| 33 | A promising method for fabricating Ag nanoparticle modified nonenzyme hydrogen peroxide sensors. Sensors and Actuators B: Chemical, 2013, 181, 125-129. | 7.8 | 35 |
| 34 | Optimal synthesis and new understanding of P2-type Na2/3Mn1/2Fe1/4Co1/4O2 as an advanced cathode material in sodium-ion batteries with improved cycle stability. Ceramics International, 2018, 44, 5184-5192. | 4.8 | 34 |
| 35 | Towards practically accessible aprotic Li-air batteries: Progress and challenges related to oxygen-permeable membranes and cathodes. Energy Storage Materials, 2022, 45, 869-902. | 18.0 | 32 |
| 36 | High-power splitting of expanded graphite to produce few-layer graphene sheets. Carbon, 2011, 49, 2862-2868. | 10.3 | 28 |

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| # | Article | lF | CITATIONS |
|----|---|------|-----------|
| 37 | Controllable synthesis of polyhedral YF3 microcrystals via a potassium sodium tartrate-assisted hydrothermal route. CrystEngComm, 2008, 10, 1681. | 2.6 | 27 |
| 38 | Ni2+ ions assisted hydrothermal synthesis of flowerlike Co11(HPO3)8(OH)6 superstructures and shape control. CrystEngComm, 2009, 11, 570. | 2.6 | 27 |
| 39 | Reduced air sensitivity and improved electrochemical stability of P2–Na2/3Mn1/2Fe1/4Co1/4O2 through atomic layer deposition-assisted Al2O3 coating. Composites Part B: Engineering, 2019, 173, 106913. | 12.0 | 26 |
| 40 | Pd nanoparticle-modified electrodes for nonenzymatic hydrogen peroxide detection. Nanoscale Research Letters, 2015, 10, 1021. | 5.7 | 24 |
| 41 | Enhancing the cycle life of Li-S batteries by designing a free-standing cathode with excellent flexible, conductive, and catalytic properties. Electrochimica Acta, 2019, 298, 421-429. | 5.2 | 22 |
| 42 | Dodecylamineâ€Induced Synthesis of a Nitrogenâ€Doped Carbon Comb for Advanced Lithium–Sulfur Battery Cathodes. Advanced Materials Interfaces, 2018, 5, 1701659. | 3.7 | 21 |
| 43 | Tuning Nitrogen in Graphitic Carbon Nitride Enabling Enhanced Performance for Polysulfide Confinement in Li–S Batteries. Energy & Fuels, 2020, 34, 11557-11564. | 5.1 | 19 |
| 44 | Achieving Safe and Dendrite-Suppressed Solid-State Li Batteries via a Novel Self-Extinguished Trimethyl Phosphate-Based Wetting Agent. Energy & Fuels, 2020, 34, 11547-11556. | 5.1 | 19 |
| 45 | A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zinc–Air Batteries. Small, 2022, 18, e2105604. | 10.0 | 18 |
| 46 | Synthesis of hierarchical Ni11(HPO3)8(OH)6 superstructures based on nanorods through a soft hydrothermal route. Materials Research Bulletin, 2010, 45, 205-209. | 5.2 | 16 |
| 47 | Electrospinning of a PMA-co-PAA/FP biopolymer nanofiber: enhanced capability for immobilized horseradish peroxidase and its consequence for p-nitrophenol disposal. RSC Advances, 2015, 5, 41994-41998. | 3.6 | 15 |
| 48 | Layered Co/Ni-free oxides for sodium-ion battery cathode materials. Current Opinion in Green and Sustainable Chemistry, 2019, 17, 29-34. | 5.9 | 14 |
| 49 | Large-Scale Synthesis of Single Crystalline NiHPO ₃ ·H ₂ O Nanoneedle Bundles Based on the Dismutation of NaH ₂ PO ₂ . Crystal Growth and Design, 2008, 8, 3636-3640. | 3.0 | 12 |
| 50 | Stabilizing Li Anodes in I ₂ Steam to Tackle the Shuttling-Induced Depletion of an Iodide/Triiodide Redox Mediator in Li–O ₂ Batteries with Suppressed Li Dendrite Growth. ACS Applied Materials & Interfaces, 2021, 13, 53859-53867. | 8.0 | 12 |
| 51 | Oneâ€dimensional metal–organic frameworkâ€reinforced gel polymer electrolyte enables a stable Li metal battery. Asia-Pacific Journal of Chemical Engineering, 2022, 17, . | 1.5 | 10 |
| 52 | Anisotropy antireflection TiO ₂ nanoparticle films fabricated with directed cluster beam deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2366-2369. | 0.8 | 6 |
| 53 | Photoelectrochemical response of Ag-graphene heterostructures: insight into the localized surface plasmon enhanced photocurrent generation process. Nanotechnology, 2019, 30, 495203. | 2.6 | 5 |
| 54 | Kirkendall synthesis and characterization of nanotubular (Bi2)m(Bi2Te3)n series. Materials Research Bulletin, 2022, 152, 111827. | 5.2 | 2 |