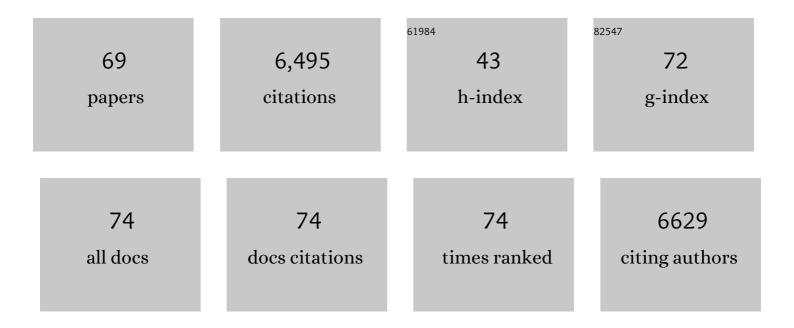
## Xiaomin Xu

List of Publications by Year in descending order

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Χιλομιν Χιι

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Electrochemical Water Splitting: Bridging the Gaps Between Fundamental Research and Industrial Applications. Energy and Environmental Materials, 2023, 6, .  | 12.8 | 89        |
| 2  | Boosting Electrocatalytic Activity of Single Atom Catalysts Supported on Nitrogenâ€Đoped Carbon<br>through N Coordination Environment Engineering. Small, 2022, 18, e2105329.  | 10.0 | 78        |
| 3  | A low resistance and stable lithium-garnet electrolyte interface enabled by a multifunctional anode additive for solid-state lithium batteries. Journal of Materials Chemistry A, 2022, 10, 2519-2527.   | 10.3 | 22        |
| 4  | Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation<br>with an Enhanced Non-Free Radical Pathway. ACS Sustainable Chemistry and Engineering, 2022, 10,<br>1899-1909.   | 6.7  | 59        |
| 5  | New Undisputed Evidence and Strategy for Enhanced Latticeâ€Oxygen Participation of Perovskite<br>Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, e2200530.  | 11.2 | 75        |
| 6  | A universal chemical-induced tensile strain tuning strategy to boost oxygen-evolving electrocatalysis<br>on perovskite oxides. Applied Physics Reviews, 2022, 9, .   | 11.3 | 67        |
| 7  | Materials Engineering in Perovskite for Optimized Oxygen Evolution Electrocatalysis in Alkaline<br>Condition. Small, 2021, 17, e2006638.   | 10.0 | 41        |
| 8  | Designing Highâ€Valence Metal Sites for Electrochemical Water Splitting. Advanced Functional<br>Materials, 2021, 31, 2009779.  | 14.9 | 195       |
| 9  | Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface<br>Engineering. Small, 2021, 17, e2101573.   | 10.0 | 128       |
| 10 | Building Ruddlesden–Popper and Single Perovskite Nanocomposites: A New Strategy to Develop<br>Highâ€Performance Cathode for Protonic Ceramic Fuel Cells. Small, 2021, 17, e2101872.  | 10.0 | 38        |
| 11 | Fundamental Understanding and Application of<br>Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3â^`î</sub> Perovskite in<br>Energy Storage and Conversion: Past, Present, and Future. Energy & Fuels, 2021, 35, 13585-13609. | 5.1  | 113       |
| 12 | Recent Progress on Structurally Ordered Materials for Electrocatalysis. Advanced Energy Materials, 2021, 11, 2101937.  | 19.5 | 65        |
| 13 | Ni2+/Co2+ doped Au-Fe7S8 nanoplatelets with exceptionally high oxygen evolution reaction activity.<br>Nano Energy, 2021, 89, 106463.   | 16.0 | 45        |
| 14 | Exceptional lattice-oxygen participation on artificially controllable electrochemistry-induced<br>crystalline-amorphous phase to boost oxygen-evolving performance. Applied Catalysis B:<br>Environmental, 2021, 297, 120484.                                | 20.2 | 41        |
| 15 | Modulating metal–organic frameworks for catalyzing acidic oxygen evolution for proton exchange<br>membrane water electrolysis. SusMat, 2021, 1, 460-481.   | 14.9 | 86        |
| 16 | Perowskitoxidâ€Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung.<br>Angewandte Chemie, 2020, 132, 140-158.  | 2.0  | 8         |
| 17 | Perovskite Oxide Based Electrodes for Highâ€Performance Photoelectrochemical Water Splitting.<br>Angewandte Chemie - International Edition, 2020, 59, 136-152.   | 13.8 | 253       |
| 18 | Rational Design of Agâ€Based Catalysts for the Electrochemical CO <sub>2</sub> Reduction to CO: A<br>Review. ChemSusChem, 2020, 13, 39-58.   | 6.8  | 106       |

Χιαομιν Χυ

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|----|--|------|-----------|
| 19 | Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. Energy Storage Materials, 2020, 26, 1-22.   | 18.0 | 208       |
| 20 | Ruddlesden–Popper perovskites in electrocatalysis. Materials Horizons, 2020, 7, 2519-2565.   | 12.2 | 139       |
| 21 | Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen<br>Defects for Zincâ€Air Batteries. ChemElectroChem, 2020, 7, 4949-4955.   | 3.4  | 23        |
| 22 | A Functionâ€Separated Design of Electrode for Realizing Highâ€Performance Hybrid Zinc Battery.<br>Advanced Energy Materials, 2020, 10, 2002992.  | 19.5 | 84        |
| 23 | A new highly active and CO2-stable perovskite-type cathode material for solid oxide fuel cells developed from A- and B-site cation synergy. Journal of Power Sources, 2020, 457, 227995.                             | 7.8  | 30        |
| 24 | A Porous Nano-Micro-Composite as a High-Performance Bi-Functional Air Electrode with Remarkable<br>Stability for Rechargeable Zinc–Air Batteries. Nano-Micro Letters, 2020, 12, 130.                                 | 27.0 | 52        |
| 25 | Activation-free supercapacitor electrode based on surface-modified Sr2CoMo1-xNixO6-δ perovskite.<br>Chemical Engineering Journal, 2020, 390, 124645.   | 12.7 | 34        |
| 26 | From scheelite BaMoO4 to perovskite BaMoO3: Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. Composites Part B: Engineering, 2020, 198, 108214.  | 12.0 | 46        |
| 27 | Self-Recovery Chemistry and Cobalt-Catalyzed Electrochemical Deposition of Cathode for Boosting Performance of Aqueous Zinc-Ion Batteries. IScience, 2020, 23, 100943.   | 4.1  | 83        |
| 28 | Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation.<br>Nature Communications, 2020, 11, 2002.  | 12.8 | 366       |
| 29 | Perovskite Materials in Electrocatalysis. Materials Horizons, 2020, , 209-250.   | 0.6  | 4         |
| 30 | Rational design of NiCo2O4/g-C3N4 composite as practical anode of lithium-ion batteries with outstanding electrochemical performance from multiple aspects. Journal of Alloys and Compounds, 2019, 805, 522-530.     | 5.5  | 27        |
| 31 | Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 5919-5926.  | 6.7  | 26        |
| 32 | Enhancing the triiodide reduction activity of a perovskite-based electrocatalyst for dye-sensitized<br>solar cells through exsolved silver nanoparticles. Journal of Materials Chemistry A, 2019, 7,<br>17489-17497. | 10.3 | 35        |
| 33 | Smart Control of Composition for Double Perovskite Electrocatalysts toward Enhanced Oxygen Evolution Reaction. ChemSusChem, 2019, 12, 5111-5116.   | 6.8  | 33        |
| 34 | A New Sodium-ion-conducting Layered Perovskite Oxide as Highly Active and Sulfur Tolerant<br>Electrocatalyst for Solid Oxide Fuel Cells. Energy Procedia, 2019, 158, 1660-1665.                                      | 1.8  | 4         |
| 35 | An Intrinsically Conductive Phosphorusâ€Doped Perovskite Oxide as a New Cathode for<br>Highâ€Performance Dyeâ€Sensitized Solar Cells by Providing Internal Conducting Pathways. Solar Rrl,<br>2019, 3, 1900108.      | 5.8  | 18        |
| 36 | Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. Trends in Chemistry, 2019, 1, 410-424.   | 8.5  | 227       |

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|----|---|------|-----------|
| 37 | Searching General Sufficientâ€andâ€Necessary Conditions for Ultrafast Hydrogenâ€Evolving<br>Electrocatalysis. Advanced Functional Materials, 2019, 29, 1900704.   | 14.9 | 94        |
| 38 | Boosting the oxygen evolution reaction activity of a perovskite through introducing multi-element synergy and building an ordered structure. Journal of Materials Chemistry A, 2019, 7, 9924-9932.  | 10.3 | 62        |
| 39 | Spontaneous Formation of Heterodimer Au–Fe <sub>7</sub> S <sub>8</sub> Nanoplatelets by a Seeded Growth Approach. Journal of Physical Chemistry C, 2019, 123, 10604-10613.  | 3.1  | 7         |
| 40 | Recent advances in anion-doped metal oxides for catalytic applications. Journal of Materials<br>Chemistry A, 2019, 7, 7280-7300.  | 10.3 | 133       |
| 41 | Recent Advances in Metalâ€Organic Framework Derivatives as Oxygen Catalysts for Zincâ€Air Batteries.<br>Batteries and Supercaps, 2019, 2, 272-289.  | 4.7  | 121       |
| 42 | Earthâ€Abundant Silicon for Facilitating Water Oxidation over Ironâ€Based Perovskite Electrocatalyst.<br>Advanced Materials Interfaces, 2018, 5, 1701693.   | 3.7  | 53        |
| 43 | 3D ordered macroporous SmCoO3 perovskite for highly active and selective hydrogen peroxide detection. Electrochimica Acta, 2018, 260, 372-383.  | 5.2  | 48        |
| 44 | Materials design for ceramic oxygen permeation membranes: Single perovskite vs. single/double<br>perovskite composite, a case study of tungsten-doped barium strontium cobalt ferrite. Journal of<br>Membrane Science, 2018, 566, 278-287.  | 8.2  | 26        |
| 45 | Recent progress in metal–organic frameworks for lithium–sulfur batteries. Polyhedron, 2018, 155,<br>464-484.  | 2.2  | 74        |
| 46 | Silver-doped strontium niobium cobaltite as a new perovskite-type ceramic membrane for oxygen separation. Journal of Membrane Science, 2018, 563, 617-624.  | 8.2  | 25        |
| 47 | Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energyâ€Related Applications. Small Methods, 2018, 2, 1800071.  | 8.6  | 285       |
| 48 | Rational Design of Metal Oxide–Based Cathodes for Efficient Dyeâ€ <b>S</b> ensitized Solar Cells. Advanced<br>Energy Materials, 2018, 8, 1800172.   | 19.5 | 30        |
| 49 | Recent Progress in Metalâ€Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. Advanced Science, 2017, 4, 1600371.   | 11.2 | 594       |
| 50 | Enhancing Electrocatalytic Activity for Hydrogen Evolution by Strongly Coupled Molybdenum<br>Nitride@Nitrogen-Doped Carbon Porous Nano-Octahedrons. ACS Catalysis, 2017, 7, 3540-3547.  | 11.2 | 306       |
| 51 | Adsorption-based synthesis of Co 3 O 4 /C composite anode for high performance lithium-ion batteries.<br>Energy, 2017, 125, 569-575.  | 8.8  | 34        |
| 52 | Rational Design of a Water‧torable Hierarchical Architecture Decorated with Amorphous Barium<br>Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance.<br>Advanced Science, 2017, 4, 1700337.   | 11.2 | 74        |
| 53 | Activity and Stability of Ruddlesden–Popperâ€Type<br>La <sub><i>n</i>+1</sub> Ni <sub><i>n</i></sub> O <sub>3<i>n</i>+1</sub> ( <i>n</i> =1, 2, 3, and â^ž)<br>Electrocatalysts for Oxygen Reduction and Evolution Reactions in Alkaline Media. Chemistry - A<br>European Journal. 2016. 22. 2719-2727. | 3.3  | 90        |
| 54 | A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2016, 28, 6442-6448.  | 21.0 | 429       |

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|----|---|------|-----------|
| 55 | One-pot combustion synthesis of Li3VO4-Li4Ti5O12 nanocomposite as anode material of lithium-ion batteries with improved performance. Electrochimica Acta, 2016, 222, 587-595.   | 5.2  | 12        |
| 56 | Toward Enhanced Oxygen Evolution on Perovskite Oxides Synthesized from Different Approaches: A<br>Case Study of Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3â~δ. Electrochimica Acta, 2016, 219, 553-559.  | 5.2  | 72        |
| 57 | Coâ€doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen<br>Evolution Reaction. Advanced Science, 2016, 3, 1500187.   | 11.2 | 245       |
| 58 | Electrocatalysis: Coâ€doping Strategy for Developing Perovskite Oxides as Highly Efficient<br>Electrocatalysts for Oxygen Evolution Reaction (Adv. Sci. 2/2016). Advanced Science, 2016, 3, .   | 11.2 | 1         |
| 59 | Understanding the doping effect toward the design of CO2-tolerant perovskite membranes with enhanced oxygen permeability. Journal of Membrane Science, 2016, 519, 11-21.  | 8.2  | 47        |
| 60 | Surfactant-free self-assembly of reduced graphite oxide-MoO2 nanobelt composites used as electrode for lithium-ion batteries. Electrochimica Acta, 2016, 211, 972-981.  | 5.2  | 53        |
| 61 | Three Strongly Coupled Allotropes in a Functionalized Porous All arbon Nanocomposite as a<br>Superior Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2016, 3, 698-703.  | 3.4  | 23        |
| 62 | Pt/C–LiCoO <sub>2</sub> composites with ultralow Pt loadings as synergistic bifunctional electrocatalysts for oxygen reduction and evolution reactions. Journal of Materials Chemistry A, 2016, 4, 4516-4524.   | 10.3 | 65        |
| 63 | Hierarchical carbon-coated acanthosphere-like Li4Ti5O12 microspheres for high-power lithium-ion batteries. Journal of Power Sources, 2016, 314, 18-27.  | 7.8  | 59        |
| 64 | SrCo <sub>0.9</sub> Ti <sub>0.1</sub> O <sub>3â^ʾî</sub> As a New Electrocatalyst for the Oxygen<br>Evolution Reaction in Alkaline Electrolyte with Stable Performance. ACS Applied Materials &<br>Interfaces, 2015, 7, 17663-17670.  | 8.0  | 125       |
| 65 | Modified template synthesis and electrochemical performance of a<br>Co <sub>3</sub> O <sub>4</sub> /mesoporous cathode for lithium–oxygen batteries. Journal of<br>Materials Chemistry A, 2015, 3, 16132-16141.   | 10.3 | 31        |
| 66 | Multifunctional Iron Oxide Nanoflake/Graphene Composites Derived from Mechanochemical Synthesis<br>for Enhanced Lithium Storage and Electrocatalysis. ACS Applied Materials & Interfaces, 2015, 7,<br>14446-14455.  | 8.0  | 75        |
| 67 | Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. Chemistry of Materials, 2015, 27, 3048-3054.  | 6.7  | 117       |
| 68 | A top-down strategy for the synthesis of mesoporous Ba0.5Sr0.5Co0.8Fe0.2O3â^' as a cathode precursor<br>for buffer layer-free deposition on stabilized zirconia electrolyte with a superior electrochemical<br>performance. Journal of Power Sources, 2015, 274, 1024-1033. | 7.8  | 44        |
| 69 | A Universal and Facile Way for the Development of Superior Bifunctional Electrocatalysts for Oxygen<br>Reduction and Evolution Reactions Utilizing the Synergistic Effect. Chemistry - A European Journal,<br>2014, 20, 15533-15542.  | 3.3  | 87        |