

# Chao Su

## 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.

86  
papers

4,206  
citations

34  
h-index

64  
g-index

92  
ext. papers

5,172  
ext. citations

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5.81  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 86 | SrNb <sub>0.1</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> perovskite as a next-generation electrocatalyst for oxygen evolution in alkaline solution. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3897-901                          | 16.4 | 345       |
| 85 | Progress in solid oxide fuel cells with nickel-based anodes operating on methane and related fuels. <i>Chemical Reviews</i> , <b>2013</b> , 113, 8104-51   | 68.1 | 342       |
| 84 | A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2016</b> , 28, 6442-8   | 24   | 315       |
| 83 | Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 194, 7-15  | 21.8 | 277       |
| 82 | Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 626-634  | 21.8 | 274       |
| 81 | Co-doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Science</i> , <b>2016</b> , 3, 1500187   | 13.6 | 196       |
| 80 | Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. <i>ACS Catalysis</i> , <b>2017</b> , 7, 388-397  | 13.1 | 186       |
| 79 | A new carbon fuel cell with high power output by integrating with in situ catalytic reverse Boudouard reaction. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1265-1268   | 5.1  | 112       |
| 78 | Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3048-3054  | 9.6  | 102       |
| 77 | SrCo <sub>0.9</sub> Ti <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> As a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17663-70                               | 9.5  | 97        |
| 76 | Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500188  | 21.8 | 96        |
| 75 | Green synthesis of mesoporous ZnFe <sub>2</sub> O <sub>4</sub> /C composite microspheres as superior anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 258, 305-313   | 8.9  | 80        |
| 74 | A universal and facile way for the development of superior bifunctional electrocatalysts for oxygen reduction and evolution reactions utilizing the synergistic effect. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15533-42   | 4.8  | 76        |
| 73 | Advanced Symmetric Solid Oxide Fuel Cell with an Infiltrated K <sub>2</sub> NiF <sub>4</sub> -Type La <sub>2</sub> NiO <sub>4</sub> Electrode. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 356-362   | 4.1  | 73        |
| 72 | A 3D porous architecture composed of TiO <sub>2</sub> nanotubes connected with a carbon nanofiber matrix for fast energy storage. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12310   | 13   | 69        |
| 71 | Perovskite SrCo <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> as an Anion-Intercalated Electrode Material for Supercapacitors with Ultrahigh Volumetric Energy Density. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9576-9                    | 16.4 | 68        |
| 70 | Nano La <sub>0.6</sub> Ca <sub>0.4</sub> Fe <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> decorated porous doped ceria as a novel cobalt-free electrode for Symmetrical solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19526-19535 | 13   | 67        |

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|----|---|------|----|
| 69 | SrNb <sub>0.1</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> O <sub>3</sub> Perovskite as a Next-Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3969-3973   | 3.6  | 64 |
| 68 | Electric power and synthesis gas co-generation from methane with zero waste gas emission. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1792-7   | 16.4 | 63 |
| 67 | Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15169-15194   | 4.1  | 63 |
| 66 | A new Gd-promoted nickel catalyst for methane conversion to syngas and as an anode functional layer in a solid oxide fuel cell. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3855-3862  | 8.9  | 53 |
| 65 | SrCoTiO perovskites as excellent catalysts for fast degradation of water contaminants in neutral and alkaline solutions. <i>Scientific Reports</i> , <b>2017</b> , 7, 44215   | 4.9  | 51 |
| 64 | Nickel-based anode with water storage capability to mitigate carbon deposition for direct ethanol solid oxide fuel cells. <i>ChemSusChem</i> , <b>2014</b> , 7, 1719-28   | 8.3  | 51 |
| 63 | Facet- and defect-dependent activity of perovskites in catalytic evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118972   | 21.8 | 48 |
| 62 | Pt/CNiCoO <sub>2</sub> composites with ultralow Pt loadings as synergistic bifunctional electrocatalysts for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4516-4524   | 13   | 47 |
| 61 | A comprehensive evaluation of a NiAl <sub>2</sub> O <sub>3</sub> catalyst as a functional layer of solid-oxide fuel cell anode. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 402-411  | 8.9  | 41 |
| 60 | Cobalt-free SrFe <sub>0.9</sub> Ti <sub>0.1</sub> O <sub>3</sub> as a high-performance electrode material for oxygen reduction reaction on doped ceria electrolyte with favorable CO <sub>2</sub> tolerance. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 2531-2539   | 6    | 40 |
| 59 | A pan-cancer analysis of the oncogenic role of staphylococcal nuclease domain-containing protein 1 (SND1) in human tumors. <i>Genomics</i> , <b>2020</b> , 112, 3958-3967   | 4.3  | 39 |
| 58 | Assessment of nickel cermets and La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>0.2</sub> Mn <sub>0.8</sub> O <sub>3</sub> as solid-oxide fuel cell anodes operating on carbon monoxide fuel. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1333-1343   | 8.9  | 39 |
| 57 | Perovskite SrCo <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3</sub> as an Anion-Intercalated Electrode Material for Supercapacitors with Ultrahigh Volumetric Energy Density. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9728-9731   | 3.6  | 38 |
| 56 | Electrolyte materials for intermediate-temperature solid oxide fuel cells. <i>Progress in Natural Science: Materials International</i> , <b>2020</b> , 30, 764-774  | 3.6  | 37 |
| 55 | A top-down strategy for the synthesis of mesoporous Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> as a cathode precursor for buffer layer-free deposition on stabilized zirconia electrolyte with a superior electrochemical performance. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 1024-1033 | 8.9  | 36 |
| 54 | Anchoring perovskite LaMnO <sub>3</sub> nanoparticles on biomass-derived N, P co-doped porous carbon for efficient oxygen reduction. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 40-48  | 6.7  | 36 |
| 53 | Thermal inkjet printing of thin-film electrolytes and buffering layers for solid oxide fuel cells with improved performance. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 9310-9319  | 6.7  | 35 |
| 52 | Coke formation and performance of an intermediate-temperature solid oxide fuel cell operating on dimethyl ether fuel. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 1967-1974  | 8.9  | 33 |

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|----|---|------|----|
| 51 | A carbon-air battery for high power generation. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3722-5   | 16.4 | 32 |
| 50 | Renewable acetic acid in combination with solid oxide fuel cells for sustainable clean electric power generation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5620   | 13   | 31 |
| 49 | Physically mixed LiLaNiAl <sub>2</sub> O <sub>3</sub> and copper as conductive anode catalysts in a solid oxide fuel cell for methane internal reforming and partial oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5632-5643         | 6.7  | 31 |
| 48 | Defects-rich porous carbon microspheres as green electrocatalysts for efficient and stable oxygen-reduction reaction over a wide range of pH values. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126883  | 14.7 | 31 |
| 47 | A new symmetric solid oxide fuel cell with a samaria-doped ceria framework and a silver-infiltrated electrocatalyst. <i>Journal of Power Sources</i> , <b>2012</b> , 197, 57-64   | 8.9  | 29 |
| 46 | 3D amorphous carbon and graphene co-modified LiFePO <sub>4</sub> composite derived from polyol process as electrode for high power lithium-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 363-375  | 12   | 27 |
| 45 | Effect of nickel content and preparation method on the performance of Ni-Al <sub>2</sub> O <sub>3</sub> towards the applications in solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 10958-10967                           | 6.7  | 26 |
| 44 | Recent advances and perspectives of fluorite and perovskite-based dual-ion conducting solid oxide fuel cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 57, 406-427  | 12   | 22 |
| 43 | Fundamental Understanding and Application of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> Perovskite in Energy Storage and Conversion: Past, Present, and Future. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 13585-13609 | 4.1  | 21 |
| 42 | Nickel zirconia cerate cermet for catalytic partial oxidation of ethanol in a solid oxide fuel cell system. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8603-8612   | 6.7  | 20 |
| 41 | Cation-Deficient Perovskites for Clean Energy Conversion. <i>Accounts of Materials Research</i> , <b>2021</b> , 2, 477-488  | 4.8  | 20 |
| 40 | Electric Power and Synthesis Gas Co-generation From Methane with Zero Waste Gas Emission. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1832-1837   | 3.6  | 18 |
| 39 | Solid oxide fuel cells in combination with biomass gasification for electric power generation. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 28, 1156-1161   | 3.2  | 15 |
| 38 | Oncoprotein Tudor-SN is a key determinant providing survival advantage under DNA damaging stress. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 1625-1637   | 12.7 | 15 |
| 37 | Solid oxide fuel cells with both high voltage and power output by utilizing beneficial interfacial reaction. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 12173-81  | 3.6  | 14 |
| 36 | SrCo <sub>0.8</sub> Ti <sub>0.1</sub> Ta <sub>0.1</sub> O <sub>3</sub> -perovskite: A new highly active and durable cathode material for intermediate-temperature solid oxide fuel cells. <i>Composites Part B: Engineering</i> , <b>2021</b> , 213, 108726           | 10   | 13 |
| 35 | Process Investigation of a Solid Carbon-Fueled Solid Oxide Fuel Cell Integrated with a CO <sub>2</sub> -Permeating Membrane and a Sintering-Resistant Reverse Boudouard Reaction Catalyst. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 1841-1848                    | 4.1  | 12 |
| 34 | Effect of fabrication method on properties and performance of bimetallic Ni <sub>0.75</sub> Fe <sub>0.25</sub> anode catalyst for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9287-9297                               | 6.7  | 12 |

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|----|---|------|----|
| 33 | Ammonia-mediated suppression of coke formation in direct-methane solid oxide fuel cells with nickel-based anodes. <i>Journal of Power Sources</i> , <b>2013</b> , 240, 232-240  | 8.9  | 12 |
| 32 | Isobaric Molar Heat Capacity of Ethyl Octanoate and Ethyl Decanoate at Pressures up to 24 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 2252-2256  | 2.8  | 11 |
| 31 | Mixed fuel strategy for carbon deposition mitigation in solid oxide fuel cells at intermediate temperatures. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7122-7   | 10.3 | 11 |
| 30 | Iron incorporated Ni <sub>0.8</sub> ZrO <sub>2</sub> catalysts for electric power generation from methane. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9801-9808  | 6.7  | 11 |
| 29 | Coke-free direct formic acid solid oxide fuel cells operating at intermediate temperatures. <i>Journal of Power Sources</i> , <b>2012</b> , 220, 147-152  | 8.9  | 11 |
| 28 | CO <sub>2</sub> and water vapor-tolerant yttria stabilized bismuth oxide (YSB) membranes with external short circuit for oxygen separation with CO <sub>2</sub> capture at intermediate temperatures. <i>Journal of Membrane Science</i> , <b>2013</b> , 427, 168-175           | 9.6  | 11 |
| 27 | Study on proton-conducting solid oxide fuel cells with a conventional nickel cermet anode operating on dimethyl ether. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9246-9253   | 8.9  | 11 |
| 26 | Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zinc-Air Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4949-4955   | 4.3  | 11 |
| 25 | Graphene decorated with multiple nanosized active species as dual function electrocatalysts for lithium-oxygen batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 188, 718-726   | 6.7  | 10 |
| 24 | Fabrication and operation of flow-through tubular SOFCs for electric power and synthesis gas cogeneration from methane. <i>AIChE Journal</i> , <b>2014</b> , 60, 1036-1044  | 3.6  | 10 |
| 23 | Single-chamber solid oxide fuel cells with nanocatalyst-modified anodes capable of in situ activation. <i>Journal of Power Sources</i> , <b>2014</b> , 264, 220-228   | 8.9  | 10 |
| 22 | Yolk-shell-Structured Cu/Fe@Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Loaded Graphitic Porous Carbon for the Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , <b>2017</b> , 34, 1700158  | 3.1  | 10 |
| 21 | Reducing the operation temperature of a solid oxide fuel cell using a conventional nickel-based cermet anode on dimethyl ether fuel through internal partial oxidation. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 7601-7608  | 8.9  | 10 |
| 20 | Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 12744-12787  | 58.5 | 10 |
| 19 | Isobaric Heat Capacity of Boric Acid Solution. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 4200-4204  | 2.4  | 9  |
| 18 | Interface engineered perovskite oxides for enhanced catalytic oxidation: The vital role of lattice oxygen. <i>Chemical Engineering Science</i> , <b>2021</b> , 245, 116944  | 4.4  | 9  |
| 17 | Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1899-1909   | 8.3  | 8  |
| 16 | Evaluation of the CO <sub>2</sub> tolerant cathode for solid oxide fuel cells: Praseodymium oxysulfates/Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\lambda</math></sub> . <i>Applied Surface Science</i> , <b>2019</b> , 472, 10-15 | 6.7  | 7  |

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|----|--|------|---|
| 15 | A Carbon/Air Battery for High Power Generation. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3793-3796  | 3.6  | 7 |
| 14 | Further performance enhancement of a DME-fueled solid oxide fuel cell by applying anode functional catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 6844-6852   | 6.7  | 7 |
| 13 | Oxide-based precious metal-free electrocatalysts for anion exchange membrane fuel cells: from material design to cell applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3151-3179   | 13   | 7 |
| 12 | The bioactive components as well as the nutritional and health effects of sea buckthorn.. <i>RSC Advances</i> , <b>2020</b> , 10, 44654-44671  | 3.7  | 6 |
| 11 | Building Ruddlesden-Popper and Single Perovskite Nanocomposites: A New Strategy to Develop High-Performance Cathode for Protonic Ceramic Fuel Cells. <i>Small</i> , <b>2021</b> , 17, e2101872   | 11   | 6 |
| 10 | Prussian blue-conjugated ZnO nanoparticles for near-infrared light-responsive photocatalysis. <i>Materials Today Energy</i> , <b>2021</b> , 23, 100895   | 7    | 2 |
| 9  | Progress in the Medicinal Value, Bioactive Compounds, and Pharmacological Activities of. <i>Molecules</i> , <b>2021</b> , 26,  | 4.8  | 2 |
| 8  | High Selectivity Electrocatalysts for Oxygen Evolution Reaction and Anti-Chlorine Corrosion Strategies in Seawater Splitting. <i>Catalysts</i> , <b>2022</b> , 12, 261   | 4    | 2 |
| 7  | Potential Therapeutic Effects of Mi-Jian-Chang-Pu Decoction on Neurochemical and Metabolic Changes of Cerebral Ischemia-Reperfusion Injury in Rats.. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2022</b> , 2022, 7319563                | 6.7  | 2 |
| 6  | Electrocatalysis: Co-doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction (Adv. Sci. 2/2016). <i>Advanced Science</i> , <b>2016</b> , 3,  | 13.6 | 1 |
| 5  | Simultaneous determination of both kavalactone and flavokawain constituents by different single-marker methods in kava. <i>Journal of Separation Science</i> , <b>2021</b> , 44, 2705-2716   | 3.4  | 1 |
| 4  | Nonnoble metal oxides for high-performance Zn-air batteries: Design strategies and future challenges. <i>Asia-Pacific Journal of Chemical Engineering</i> ,  | 1.3  | 1 |
| 3  | Beneficial effects of mijianchangpu decoction on ischemic stroke through components accessing to the brain based on network pharmacology. <i>Journal of Ethnopharmacology</i> , <b>2021</b> , 285, 114882  | 5    | 0 |
| 2  | Biological Activity, Hepatotoxicity, and Structure-Activity Relationship of Kavalactones and Flavokavins, the Two Main Bioactive Components in Kava (). <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2021</b> , 2021, 6851798 | 2.3  | 0 |
| 1  | Composite cathodes for protonic ceramic fuel cells: Rationales and materials. <i>Composites Part B: Engineering</i> , <b>2022</b> , 109881   | 10   | 0 |