

# Lei Zhang

## List of Publications by Year in descending order

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32  
papers

1,129  
citations

393982

19  
h-index

395343

33  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1817  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Dimensional construction and morphological tuning of heterogeneous MoS <sub>2</sub> /NiS electrocatalysts for efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9833-9838.           | 5.2 | 114       |
| 2  | Bubble-supported engineering of hierarchical CuCo <sub>2</sub> S <sub>4</sub> hollow spheres for enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5265-5270.                     | 5.2 | 103       |
| 3  | Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Solid State Ionics</i> , 2011, 201, 94-100.   | 1.3 | 89        |
| 4  | Comment on the use of calcium as a dopant in X8R BaTiO <sub>3</sub> -based ceramics. <i>Applied Physics Letters</i> , 2007, 90, 142914.  | 1.5 | 81        |
| 5  | Hollow spherical LaNiO <sub>3</sub> supercapacitor electrode synthesized by a facile template-free method. <i>Materials Letters</i> , 2017, 201, 122-124.  | 1.3 | 54        |
| 6  | Morphology tuning of porous CoO nanowall towards enhanced electrochemical performance as supercapacitors electrodes. <i>Catalysis Today</i> , 2019, 330, 240-245.  | 2.2 | 53        |
| 7  | Enhanced NO <sub>2</sub> Sensitivity in Schottky-Contacted n-Type SnS <sub>2</sub> Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26746-26754.   | 4.0 | 49        |
| 8  | A high performance intermediate temperature fuel cell based on a thick oxide-carbonate electrolyte. <i>Journal of Power Sources</i> , 2009, 194, 967-971.  | 4.0 | 47        |
| 9  | Durability study of an intermediate temperature fuel cell based on an oxide-carbonate composite electrolyte. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6934-6940.                                      | 3.8 | 46        |
| 10 | A stable intermediate temperature fuel cell based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Electrochemistry Communications</i> , 2011, 13, 582-585.                                     | 2.3 | 45        |
| 11 | Photo-enhanced gas sensing of SnS <sub>2</sub> with nanoscale defects. <i>RSC Advances</i> , 2019, 9, 626-635.   | 1.7 | 43        |
| 12 | Cross-linked Ni(OH) <sub>2</sub> /CuCo <sub>2</sub> S <sub>4</sub> /Ni networks as binder-free electrodes for high performance supercapacities. <i>Nanoscale</i> , 2018, 10, 20526-20532.                                | 2.8 | 41        |
| 13 | Strategy for Fabricating Wafer-Scale Platinum Disulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8202-8209.  | 4.0 | 37        |
| 14 | In situ construction of Co/Co <sub>3</sub> O <sub>4</sub> with N-doped porous carbon as a bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Catalysis Today</i> , 2020, 355, 286-294. | 2.2 | 37        |
| 15 | Enhanced NO <sub>2</sub> Sensing at Room Temperature with Graphene via Monodisperse Polystyrene Bead Decoration. <i>ACS Omega</i> , 2019, 4, 3812-3819.  | 1.6 | 33        |
| 16 | A highly efficient electrocatalyst of perovskite LaNiO <sub>3</sub> for nonaqueous Li-O <sub>2</sub> batteries with superior cycle stability. <i>Journal of Alloys and Compounds</i> , 2016, 664, 750-755.               | 2.8 | 28        |
| 17 | Cost-effective solid oxide fuel cell prepared by single step co-press-firing process with lithiated NiO cathode. <i>Electrochemistry Communications</i> , 2010, 12, 1589-1592.   | 2.3 | 27        |
| 18 | Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 814-820.  | 0.4 | 26        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Polyvinylpyrrolidone-assisted Solvothermal Synthesis of Porous LaCoO <sub>3</sub> Nanospheres as Supercapacitor Electrode. International Journal of Electrochemical Science, 2017, 12, 7121-7127.   | 0.5 | 21        |
| 20 | Fabrication of solid oxide fuel cell based on doped ceria electrolyte by one-step sintering at 800Å°C. Solid State Ionics, 2011, 203, 47-51.  | 1.3 | 18        |
| 21 | An intermediate temperature solid oxide fuel cell fabricated by one step co-press-sintering. International Journal of Hydrogen Energy, 2011, 36, 14643-14647.   | 3.8 | 18        |
| 22 | Study on conductivity and redox stability of iron orthovanadate. Materials Chemistry and Physics, 2011, 126, 614-618.   | 2.0 | 17        |
| 23 | Improved performance of Liâ€Se battery based on a novel dual functional CNTs@graphene/CNTs cathode construction. Rare Metals, 2017, 36, 425-433.  | 3.6 | 15        |
| 24 | An intermediate temperature fuel cell based on composite electrolyte of carbonate and doped barium cerate with SrFe <sub>0.7</sub> Mn <sub>0.2</sub> Mo <sub>0.1</sub> O <sub>3</sub> â€ cathode. International Journal of Hydrogen Energy, 2013, 38, 16546-16551.            | 3.8 | 13        |
| 25 | Pr <sub>6</sub> O <sub>11</sub> -Coated High Capacity Layered Li[Li <sub>0.17</sub> Ni <sub>0.17</sub> Co <sub>0.10</sub> Mn <sub>0.56</sub> ]O <sub>2</sub> as a Cathode Material for Lithium Ion Batteries. Journal of the Electrochemical Society, 2014, 161, A1564-A1571. | 1.3 | 13        |
| 26 | H <sub>2</sub> S + SO <sub>2</sub> produces water-dispersed sulfur nanoparticles for lithium-sulfur batteries. Nano Energy, 2017, 41, 665-673.  | 8.2 | 12        |
| 27 | Conductivity and stability of cobalt pyrovanadate. Journal of Alloys and Compounds, 2011, 509, 4117-4121.   | 2.8 | 11        |
| 28 | Spatially Interlinked Graphene with Uniformly Loaded Sulfur for High Performance Liâ€S Batteries. Chinese Journal of Chemistry, 2016, 34, 41-45.  | 2.6 | 11        |
| 29 | Ferroelectric Aging and Recoverable Electrostrain in BaTi <sub>0.98</sub> Ca <sub>0.02</sub> O <sub>2.98</sub> Ceramics. Journal of the American Ceramic Society, 2008, 91, 3101-3104.  | 1.9 | 10        |
| 30 | Stability and conductivity study of NH <sub>4</sub> PO <sub>3</sub> â€PTFE composites at intermediate temperatures. Journal of Alloys and Compounds, 2009, 480, 874-877.  | 2.8 | 9         |
| 31 | The construction of a 2D MoS <sub>2</sub> -based binder-free electrode with a honeycomb structure for enhanced electrochemical performance. Dalton Transactions, 2020, 49, 8036-8040.   | 1.6 | 3         |
| 32 | Covalent modification of graphite oxide with acetic anhydride to enhance dispersibility in organic solvents. Functional Materials Letters, 2016, 09, 1650044.   | 0.7 | 1         |