Zhihong Du

List of Publications by Year
in descending order

52 papers	2,893 citations	186265 28 h-index	168389 53 g-index
53 all docs	53 docs citations	53 times ranked	3764 citing authors

#	Article	IF	Citations
1	MoS₂ Nanosheets Vertically Grown on Graphene Sheets for Lithium-Ion Battery Anodes. ACS Nano, 2016, 10, 8526-8535.	14.6	447
2	High-Performance Anode Material Sr₂FeMo_{0.65}Ni_{0.35}O_{6â^'Î´} with In Situ Exsolved Nanoparticle Catalyst. ACS Nano, 2016, 10, 8660-8669.	14.6	287
3	Watermelonâ€Like Structured SiO_xâ€“TiO₂@C Nanocomposite as a Highâ€Performance Lithiumâ€Ion Battery Anode. Advanced Functional Materials, 2018, 28, 1605711.	14.9	175
4	Carbonâ€Sheathed MoS₂ Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage. Advanced Energy Materials, 2018, 8, 1700174.	19.5	141
5	MoS2 nanosheets vertically grown on reduced graphene oxide via oxygen bonds with carbon coating as ultrafast sodium ion batteries anodes. Carbon, 2017, 119, 91-100.	10.3	120
6	Facile synthesis of MoO3/carbon nanobelts as high-performance anode material for lithium ion batteries. Electrochimica Acta, 2015, 180, 947-956.	5.2	96
7	High-Performance SmBaMn₂O_{5+Î´} Electrode for Symmetrical Solid Oxide Fuel Cell. Chemistry of Materials, 2019, 31, 3784-3793.	6.7	88
8	SiO â€“C dual-phase glass for lithium ion battery anode with high capacity and stable cycling performance. Journal of Power Sources, 2015, 274, 542-550.	7.8	85
9	Medium-Entropy perovskites Sr(FeÎ±TiÎ²CoÎ³MnÎ¶)O3- as promising cathodes for intermediate temperature solid oxide fuel cell. Applied Catalysis B: Environmental, 2021, 295, 120264.	20.2	77
10	Superior High-Rate and Ultralong-Lifespan Na₃V₂(PO₄)₃@C Cathode by Enhancing the Conductivity Both in Bulk and on Surface. ACS Applied Materials & Interfaces, 2018, 10, 35963-35971.	8.0	74
11	Novel cobalt-free BaFe_{1â^'x}Gd_xO_{3â^'Î´} perovskite membranes for oxygen separation. Journal of Materials Chemistry A, 2016, 4, 10454-10466.	10.3	72
12	Effects of Co Doping on the Electrochemical Performance of Double Perovskite Oxide Sr₂MgMoO_{6â^'Î´} as an Anode Material for Solid Oxide Fuel Cells. Journal of Physical Chemistry C, 2012, 116, 9734-9743.	3.1	68
13	Investigation of In-doped BaFeO_{3â^'Î´}perovskite-type oxygen permeable membranes. Journal of Materials Chemistry A, 2015, 3, 6202-6214.	10.3	68
14	Exceptionally High Performance Anode Material Based on Lattice Structure Decorated Double Perovskite Sr₂FeMo_{2/3}Mg_{1/3}O_{6â^'}_{Î´} for Solid Oxide Fuel Cells. Advanced Energy Materials, 2018, 8, 1800062.	19.5	62
15	Computational and experimental understanding of Al-doped Na3V2-xAlx(PO4)3 cathode material for sodium ion batteries: Electronic structure, ion dynamics and electrochemical properties. Electrochimica Acta, 2018, 282, 510-519.	5.2	60
16	Delicate lattice modulation enables superior Na storage performance of Na₃V₂(PO₄)₃ as both an anode and cathode material for sodium-ion batteries: understanding the role of calcium substitution for vanadium. Journal of Materials Chemistry A, 2019, 7, 9807-9814.	10.3	56
17	Enhanced oxygen reduction kinetics of IT-SOFC cathode with PrBaCo₂O_{5+Î´}/Gd_{0.1}Ce_{1.9}O_{2â^'Î´} coherent interface. Journal of Materials Chemistry A, 2022, 10, 3495-3505.	10.3	56
18	Synthesis and electrochemical properties of MoO3/C composite as anode material for lithium-ion batteries. Journal of Power Sources, 2013, 226, 107-111.	7.8	51

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19	Micro/Nano Na₃V₂(PO₄)₃/N-Doped Carbon Composites with a Hierarchical Porous Structure for High-Rate Pouch-Type Sodium-Ion Full-Cell Performance. ACS Applied Materials & Interfaces, 2021, 13, 8445-8454.	8.0	51
20	Synthesis and electrical properties of Al-doped Sr2MgMoO6-Î´ as an anode material for solid oxide fuel cells. International Journal of Hydrogen Energy, 2011, 36, 7257-7264.	7.1	47
21	Evaluation of La_{0.3}Sr_{0.7}Ti_{1â^'x}Co_xO₃ as a potential cathode material for solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 10290-10299.	10.3	46
22	(101) Plane-Oriented SnS₂ Nanoplates with Carbon Coating: A High-Rate and Cycle-Stable Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 35880-35887.	8.0	46
23	Electrochemical performance of Pr1â^'xYxBaCo2O5+Î´ layered perovskites as cathode materials for intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2013, 38, 16365-16372.	7.1	41
24	High CO2 tolerance oxygen permeation membranes BaFe0.95-Ca0.05Ti O3-. Journal of Membrane Science, 2018, 550, 302-312.	8.2	41
25	Electrical, Chemical, and Electrochemical Properties of Double Perovskite Oxides Sr₂Mg_{1â€“x}Ni_xMoO_{6â^'Î´} as Anode Materials for Solid Oxide Fuel Cells. Journal of Physical Chemistry C, 2014, 118, 18853-18860.	3.1	39
26	Electrochemical properties of BaZr0.1Ce0.7Y0.1Yb0.1O3Ââ^'ÂÎ´-Nd1.95NiO4Â+ÂÎ´ composite cathode for protonic ceramic fuel cells. International Journal of Hydrogen Energy, 2015, 40, 2800-2807.	7.1	35
27	Lattice structure, sintering behavior and electrochemical performance of La1.7Ca0.3Ni1â^'xCuxO4+Î´ as cathode material for intermediate-temperature solid oxide fuel cell. Journal of Power Sources, 2013, 240, 759-765.	7.8	31
28	Design and synthesis of a 3-D hierarchical molybdenum dioxide/nickel/carbon structured composite with superior cycling performance for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 605-611.	10.3	30
29	Novel ReBaCo_{1.5}Mn_{0.5}O_{5+Î´} (Re: La, Pr, Nd, Sm, Gd and Y) perovskite oxide: influence of manganese doping on the crystal structure, oxygen nonstoichiometry, thermal expansion, transport properties, and application as a cathode material in solid oxide fuel cells. Journal of Materials Chemistry A, 2018, 6, 13271-13285.	10.3	30
30	Effective Ca-doping in Y_{1â^'x}Ca_xBaCo₂O_{5+Î´} cathode materials for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2017, 5, 25641-25651.	10.3	29
31	Assessment of layered La2-x(Sr,Ba)xCuO4-Î´ oxides as potential cathode materials for SOFCs. International Journal of Hydrogen Energy, 2018, 43, 15492-15504.	7.1	29
32	Synthesis of NiO/Ni nanocomposite anode material for high rate lithium-ion batteries. Materials Letters, 2015, 142, 67-70.	2.6	27
33	Electrical conductivity and cell performance of La0.3Sr0.7Ti1â^'xCrxO3â^'Î´ perovskite oxides used as anode and interconnect material for SOFCs. International Journal of Hydrogen Energy, 2013, 38, 1068-1073.	7.1	26
34	Optimization of strontium molybdate based composite anode for solid oxide fuel cells. Journal of Power Sources, 2015, 274, 568-574.	7.8	26
35	A SmBaCo₂O_{5+Î´} double perovskite with epitaxially grown Sm_{0.2}Ce_{0.8}O_{2â^'Î´} nanoparticles as a promising cathode for solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 14162-14170.	10.3	25
36	Synthesis and densification of lanthanum silicate apatite electrolyte for intermediate temperature solid oxide fuel cell via co-precipitation method. Journal of the European Ceramic Society, 2014, 34, 1563-1569.	5.7	23

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37	Effect of titanium doping on chemical and structural stability and electrical properties of proton-conducting solid electrolyte BaCe0.8Sm0.2O3â˜. Journal of Membrane Science, 2016, 508, 104-112.	8.2	18
38	Mn-rich SmBaCo0.5Mn1.5O5+Î´ double perovskite cathode material for SOFCs. International Journal of Hydrogen Energy, 2019, 44, 27587-27599.	7.1	18
39	Unveiling the roles of alumina as a sintering aid in <scp>Liâ€Garnet</scp> solid electrolyte. International Journal of Energy Research, 2020, 44, 9177-9184.	4.5	17
40	A new family of Cu-doped lanthanum silicate apatites as electrolyte materials for SOFCs: Synthesis, structural and electrical properties. Journal of the European Ceramic Society, 2019, 39, 424-431.	5.7	16
41	Structure, Stoichiometry, and Electrochemical Performance of Li₂CoTi₃O₈ as an Anode Material for Lithiumâ€Ion Batteries. ChemPlusChem, 2013, 78, 1530-1535.	2.8	15
42	Structure and oxygen permeability of BaCo0.7Fe0.3â˜In O3â˜ ceramic membranes. Journal of Membrane Science, 2015, 492, 559-567.	8.2	15
43	Modification of electrocatalytic activity of BaCe0.40Sm0.20Fe0.40O3â˜Î´ with Co3O4 as cathode for proton-conducting solid oxide fuel cell. Electrochimica Acta, 2013, 108, 369-375.	5.2	13
44	Electrochemical Performance of La 1.5 Sr 0.5 Ni 1-x Fe x O 4+ Î´ Cathode for IT-SOFCs. Electrochimica Acta, 2016, 219, 394-400.	5.2	13
45	Unveiling the effects of A-site substitutions on the oxygen ion migration in A_{2â˜x}Aâ€²_xNiO_{4+Î´} by first principles calculations. Physical Chemistry Chemical Physics, 2018, 20, 21685-21692.	2.8	12
46	Versatile Application of Redox Processes for REBaCoMnO_{5+Î´} (RE: La, Pr, Nd, Sm, Gd, and Y) Oxides. Journal of Physical Chemistry C, 2019, 123, 48-61.	3.1	10
47	LaxPr4â˜xNi3O10â˜Î´: Mixed A-Site Cation Higher-Order Ruddlesden-Popper Phase Materials as Intermediate-Temperature Solid Oxide Fuel Cell Cathodes. Crystals, 2020, 10, 428.	2.2	10
48	Effective oxygen reduction on A-site substituted LaCuO_{3â˜Î´}: toward air electrodes for SOFCs based on perovskite-type copper oxides. Journal of Materials Chemistry A, 2019, 7, 27403-27416.	10.3	9
49	Unveiling the Interface Structure of the Exsolved Coâ€“Fe Alloy Nanoparticles from Double Perovskite and Its Application in Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 3287-3294.	8.0	8
50	A Ti-site deficient spinel Li2CoTi3O8 anode with superior cycling performance for lithium-ion batteries. Solid State Ionics, 2020, 355, 115423.	2.7	5
51	Characterization and electrochemical performance of (Ba0.6Sr0.4)1â˜xLaxCo0.85Ti0.15O3 as cathode materials for intermediate temperature solid oxide fuel cell. Ceramics International, 2013, 39, 4363-4367.	4.8	3
52	Lithiumâ€Ion Batteries: Carbonâ€Sheathed MoS₂ Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.25	3