

Zhihong Du

List of Publications by Year in descending order

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52
papers

2,893
citations

186265

28
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168389

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all docs

53
docs citations

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times ranked

3764
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced oxygen reduction kinetics of IT-SOFC cathode with $\text{PrBaCo}_{2-x}\text{O}_{5+\delta}\text{Gd}_{0.1}\text{Ce}_{1.9}\text{O}_{2\delta}$ coherent interface. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3495-3505.	10.3	56
2	Micro/Nano $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{N-Doped Carbon Composites}$ with a Hierarchical Porous Structure for High-Rate Pouch-Type Sodium-Ion Full-Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8445-8454.	8.0	51
3	Medium-Entropy perovskites $\text{Sr}(\text{Fe}_{1-x}\text{Ti}_x\text{Co}_{1-y}\text{Mn}_y)\text{O}_3$ - as promising cathodes for intermediate temperature solid oxide fuel cell. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120264.	20.2	77
4	Unveiling the Interface Structure of the Exsolved Co-Fe Alloy Nanoparticles from Double Perovskite and Its Application in Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3287-3294.	8.0	8
5	A $\text{SmBaCo}_{2-x}\text{O}_{5+\delta}$ double perovskite with epitaxially grown $\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{2\delta}$ nanoparticles as a promising cathode for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14162-14170.	10.3	25
6	A Ti-site deficient spinel $\text{Li}_2\text{CoTi}_3\text{O}_8$ anode with superior cycling performance for lithium-ion batteries. <i>Solid State Ionics</i> , 2020, 355, 115423.	2.7	5
7	Unveiling the roles of alumina as a sintering aid in Li-Garnet solid electrolyte. <i>International Journal of Energy Research</i> , 2020, 44, 9177-9184.	4.5	17
8	$\text{La}_{1-x}\text{Pr}_x\text{Ni}_3\text{O}_{10}$: Mixed A-Site Cation Higher-Order Ruddlesden-Popper Phase Materials as Intermediate-Temperature Solid Oxide Fuel Cell Cathodes. <i>Crystals</i> , 2020, 10, 428.	2.2	10
9	Mn-rich $\text{SmBaCo}_{0.5}\text{Mn}_{1.5}\text{O}_{5+\delta}$ double perovskite cathode material for SOFCs. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27587-27599.	7.1	18
10	High-Performance $\text{SmBaMn}_2\text{O}_{5+\delta}$ Electrode for Symmetrical Solid Oxide Fuel Cell. <i>Chemistry of Materials</i> , 2019, 31, 3784-3793.	6.7	88
11	Delicate lattice modulation enables superior Na storage performance of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as both an anode and cathode material for sodium-ion batteries: understanding the role of calcium substitution for vanadium. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9807-9814.	10.3	56
12	Effective oxygen reduction on A-site substituted LaCuO_3 : toward air electrodes for SOFCs based on perovskite-type copper oxides. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27403-27416.	10.3	9
13	A new family of Cu-doped lanthanum silicate apatites as electrolyte materials for SOFCs: Synthesis, structural and electrical properties. <i>Journal of the European Ceramic Society</i> , 2019, 39, 424-431.	5.7	16
14	Versatile Application of Redox Processes for $\text{REBaCoMnO}_{5+\delta}$ (RE: La, Pr, Nd, Sm, Gd, and Y) Oxides. <i>Journal of Physical Chemistry C</i> , 2019, 123, 48-61.	3.1	10
15	Lithium-Ion Batteries: Carbon-Sheathed MoS_2 Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage (<i>Adv. Energy Mater.</i>) TJ ETQq1 1 0.7843145rgBT /@verlock	19.5	141
16	High CO_2 tolerance oxygen permeation membranes $\text{BaFe}_{0.95}\text{Ca}_{0.05}\text{TiO}_3$. <i>Journal of Membrane Science</i> , 2018, 550, 302-312.	8.2	41
17	Exceptionally High Performance Anode Material Based on Lattice Structure Decorated Double Perovskite $\text{Sr}_2\text{FeMo}_{2/3}\text{Mg}_{1/3}\text{O}_{6\delta}$ for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800062.	19.5	62
18	Carbon-Sheathed MoS_2 Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1700174.	19.5	141

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19	Superior High-Rate and Ultralong-Lifespan Na ₃ V ₂ (PO ₄) ₃ @C Cathode by Enhancing the Conductivity Both in Bulk and on Surface. ACS Applied Materials & Interfaces, 2018, 10, 35963-35971.	8.0	74
20	Unveiling the effects of A-site substitutions on the oxygen ion migration in A ₂ A ²⁺ NiO ₄ by first principles calculations. Physical Chemistry Chemical Physics, 2018, 20, 21685-21692.	2.8	12
21	Assessment of layered La _{2-x} (Sr,Ba) _x CuO ₄ oxides as potential cathode materials for SOFCs. International Journal of Hydrogen Energy, 2018, 43, 15492-15504.	7.1	29
22	Watermelon-Like Structured SiO _x /TiO ₂ @C Nanocomposite as a High-Performance Lithium-Ion Battery Anode. Advanced Functional Materials, 2018, 28, 1605711.	14.9	175
23	Novel ReBaCo _{1.5} Mn _{0.5} O ₅ (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
24	Computational and experimental understanding of Al-doped Na ₃ V ₂ -xAl _x (PO ₄) ₃ cathode material for sodium ion batteries: Electronic structure, ion dynamics and electrochemical properties. Electrochimica Acta, 2018, 282, 510-519.	5.2	60
25	MoS ₂ 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
26	(101) Plane-Oriented SnS ₂ 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
27	Effective Ca-doping in Y _{1-x} Ca _x BaCo ₂ O ₅ cathode materials for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2017, 5, 25641-25651.	10.3	29
28	Electrochemical Performance of La _{1.5} Sr _{0.5} Ni _{1-x} Fe _x O ₄ Cathode for IT-SOFCs. Electrochimica Acta, 2016, 219, 394-400.	5.2	13
29	MoS ₂ Nanosheets Vertically Grown on Graphene Sheets for Lithium-Ion Battery Anodes. ACS Nano, 2016, 10, 8526-8535.	14.6	447
30	High-Performance Anode Material Sr ₂ FeMo _{0.65} Ni _{0.35} O ₆ with In Situ Exsolved Nanoparticle Catalyst. ACS Nano, 2016, 10, 8660-8669.	14.6	287
31	Novel cobalt-free BaFe _{1-x} Gd _x O ₃ perovskite membranes for oxygen separation. Journal of Materials Chemistry A, 2016, 4, 10454-10466.	10.3	72
32	Effect of titanium doping on chemical and structural stability and electrical properties of proton-conducting solid electrolyte BaCe _{0.8} Sm _{0.2} O ₃ . Journal of Membrane Science, 2016, 508, 104-112.	8.2	18
33	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
34	Investigation of In-doped BaFeO ₃ perovskite-type oxygen permeable membranes. Journal of Materials Chemistry A, 2015, 3, 6202-6214.	10.3	68
35	Electrochemical properties of BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ -Nd _{1.95} NiO ₄ composite cathode for protonic ceramic fuel cells. International Journal of Hydrogen Energy, 2015, 40, 2800-2807.	7.1	35
36	SiO ₂ -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

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37	Structure and oxygen permeability of BaCo _{0.7} Fe _{0.3} In ₂ O ₇ ceramic membranes. <i>Journal of Membrane Science</i> , 2015, 492, 559-567.	8.2	15
38	Facile synthesis of MoO ₃ /carbon nanobelts as high-performance anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015, 180, 947-956.	5.2	96
39	Synthesis of NiO/Ni nanocomposite anode material for high rate lithium-ion batteries. <i>Materials Letters</i> , 2015, 142, 67-70.	2.6	27
40	Optimization of strontium molybdate based composite anode for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 274, 568-574.	7.8	26
41	Evaluation of La _{0.3} Sr _{0.7} Ti _{1-x} Co _x O ₃ as a potential cathode material for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10290-10299.	10.3	46
42	Electrical, Chemical, and Electrochemical Properties of Double Perovskite Oxides Sr ₂ Mg _{1-x} Ni _x Mo ₆ as Anode Materials for Solid Oxide Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18853-18860.	3.1	39
43	Synthesis and densification of lanthanum silicate apatite electrolyte for intermediate temperature solid oxide fuel cell via co-precipitation method. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1563-1569.	5.7	23
44	Lattice structure, sintering behavior and electrochemical performance of La _{1.7} Ca _{0.3} Ni _{1-x} Cu _x O ₄ as cathode material for intermediate-temperature solid oxide fuel cell. <i>Journal of Power Sources</i> , 2013, 240, 759-765.	7.8	31
45	Characterization and electrochemical performance of (Ba _{0.6} Sr _{0.4}) _{1-x} La _x Co _{0.85} Ti _{0.15} O ₃ as cathode materials for intermediate temperature solid oxide fuel cell. <i>Ceramics International</i> , 2013, 39, 4363-4367.	4.8	3
46	Electrochemical performance of Pr _{1-x} Y _x BaCo ₂ O ₅ layered perovskites as cathode materials for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16365-16372.	7.1	41
47	Synthesis and electrochemical properties of MoO ₃ /C composite as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 226, 107-111.	7.8	51
48	Modification of electrocatalytic activity of BaCe _{0.4} Sm _{0.2} Fe _{0.4} O ₃ with Co ₃ O ₄ as cathode for proton-conducting solid oxide fuel cell. <i>Electrochimica Acta</i> , 2013, 108, 369-375.	5.2	13
49	Electrical conductivity and cell performance of La _{0.3} Sr _{0.7} Ti _{1-x} Cr _x O ₃ perovskite oxides used as anode and interconnect material for SOFCs. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1068-1073.	7.1	26
50	Structure, Stoichiometry, and Electrochemical Performance of Li ₂ CoTi ₃ O ₈ as an Anode Material for Lithium-ion Batteries. <i>ChemPlusChem</i> , 2013, 78, 1530-1535.	2.8	15
51	Effects of Co Doping on the Electrochemical Performance of Double Perovskite Oxide Sr ₂ MgMo ₆ as an Anode Material for Solid Oxide Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9734-9743.	3.1	68
52	Synthesis and electrical properties of Al-doped Sr ₂ MgMo ₆ as an anode material for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7257-7264.	7.1	47