

Yufei Song

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,765
citations

361413

20
h-index

501196

28
g-index

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all docs

30
docs citations

30
times ranked

1038
citing authors

#	ARTICLE	IF	CITATIONS
1	Protonic ceramic materials for clean and sustainable energy: advantages and challenges. <i>International Materials Reviews</i> , 2023, 68, 272-300.	19.3	16
2	The $\text{BaCe}_{0.16}\text{Y}_{0.04}\text{Fe}_{0.8}\text{O}_{3-\delta}$ nanocomposite: a new high-performance cobalt-free triple-conducting cathode for protonic ceramic fuel cells operating at reduced temperatures. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5381-5390.	10.3	69
3	A New Durable Surface Nanoparticles-Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere. <i>Advanced Materials</i> , 2022, 34, e2106379.	21.0	79
4	Realizing Simultaneous Detrimental Reactions Suppression and Multiple Benefits Generation from Nickel Doping toward Improved Protonic Ceramic Fuel Cell Performance. <i>Small</i> , 2022, 18, e2200450.	10.0	25
5	Realizing High and Stable Electrocatalytic Oxygen Evolution for Iron-Based Perovskites by Co-Doping-Induced Structural and Electronic Modulation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
6	Effect of engineered lattice contraction and expansion on the performance and CO ₂ tolerance of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.7}\text{Fe}_{0.3}\text{O}_{3-\delta}$ functional material for intermediate temperature solid oxide fuel cells. <i>Ceramics International</i> , 2022, 48, 21416-21427.	4.8	11
7	Slightly ruthenium doping enables better alloy nanoparticle exsolution of perovskite anode for high-performance direct-ammonia solid oxide fuel cells. <i>Journal of Materials Science and Technology</i> , 2022, 125, 51-58.	10.7	22
8	Designing High-Valence Metal Sites for Electrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2009779.	14.9	195
9	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	20
10	$\text{SrCo}_{0.8}\text{Ti}_{0.1}\text{Ta}_{0.1}\text{O}_{3-\delta}$ perovskite: A new highly active and durable cathode material for intermediate-temperature solid oxide fuel cells. <i>Composites Part B: Engineering</i> , 2021, 213, 108726.	12.0	40
11	Nanocomposites: A New Opportunity for Developing Highly Active and Durable Bifunctional Air Electrodes for Reversible Protonic Ceramic Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101899.	19.5	70
12	Realizing stable high hydrogen permeation flux through $\text{BaCo}_{0.4}\text{Fe}_{0.4}\text{Zr}_{0.1}\text{Y}_{0.1}\text{O}_{3-\delta}$ membrane using a thin Pd film protection strategy. <i>Journal of Membrane Science</i> , 2020, 596, 117709.	8.2	21
13	Fuel Cells: Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Direct-Ammonia Solid Oxide Fuel Cells (<i>Small</i> 28/2020). <i>Small</i> , 2020, 16, 2070154.	10.0	0
14	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Energy & Fuels</i> , 2020, 34, 10568-10582.	5.1	37
15	Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. <i>Energy & Fuels</i> , 2020, 34, 15169-15194.	5.1	152
16	Exsolved Alloy Nanoparticles Decorated Ruddlesden-Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. <i>Energy & Fuels</i> , 2020, 34, 11449-11457.	5.1	32
17	Monoclinic SrIrO_3 : An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. <i>Chemistry of Materials</i> , 2020, 32, 4509-4517.	6.7	72
18	A new highly active and CO ₂ -stable perovskite-type cathode material for solid oxide fuel cells developed from A- and B-site cation synergy. <i>Journal of Power Sources</i> , 2020, 457, 227995.	7.8	30

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19	Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Direct Ammonia Solid Oxide Fuel Cells. <i>Small</i> , 2020, 16, e2001859.	10.0	53
20	Turning Detrimental Effect into Benefits: Enhanced Oxygen Reduction Reaction Activity of Cobalt-Free Perovskites at Intermediate Temperature <i>via</i> CO ₂ -Induced Surface Activation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16417-16425.	8.0	19
21	A Cobalt-Free Multi-Phase Nanocomposite as Near-Ideal Cathode of Intermediate-Temperature Solid Oxide Fuel Cells Developed by Smart Self-Assembly. <i>Advanced Materials</i> , 2020, 32, e1906979.	21.0	113
22	Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. <i>Joule</i> , 2019, 3, 2842-2853.	24.0	292
23	Boosting the Activity of BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O ₃ Perovskite for Oxygen Reduction Reactions at Low-to-Intermediate Temperatures through Tuning B-site Cation Deficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1902384.	19.5	111
24	A New Sodium-ion-conducting Layered Perovskite Oxide as Highly Active and Sulfur Tolerant Electrocatalyst for Solid Oxide Fuel Cells. <i>Energy Procedia</i> , 2019, 158, 1660-1665.	1.8	4
25	New reduced-temperature ceramic fuel cells with dual-ion conducting electrolyte and triple-conducting double perovskite cathode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13265-13274.	10.3	125
26	Rational Design of Perovskite-Based Anode with Decent Activity for Hydrogen Electro-Oxidation and Beneficial Effect of Sulfur for Promoting Power Generation in Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41257-41267.	8.0	8
27	A high performance composite cathode with enhanced CO ₂ resistance for low and intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2018, 405, 124-131.	7.8	31
28	Alkaline metal doped strontium cobalt ferrite perovskites as cathodes for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13420-13429.	7.1	14
29	Rational Design of a Water-Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. <i>Advanced Science</i> , 2017, 4, 1700337.	11.2	74
30	Functionalized Metal-Supported Reversible Protonic Ceramic Cells with Exceptional Performance and Durability. <i>Advanced Energy and Sustainability Research</i> , 0, , 2100171.	5.8	2