# **Zongping Shao**

#### List of Publications by Citations

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691 166 40,551 95 h-index g-index citations papers 8.15 10.5 47,972 720 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
691	A high-performance cathode for the next generation of solid-oxide fuel cells. <i>Nature</i> , <b>2004</b> , 431, 170-3	50.4	2425
690	Investigation of the permeation behavior and stability of a Ba0.5Sr0.5Co0.8Fe0.2O3\text{bxygen} membrane. Journal of Membrane Science, <b>2000</b> , 172, 177-188	9.6	862
689	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. <i>Chemical Reviews</i> , <b>2015</b> , 115, 9869-921	68.1	631
688	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 5371-408	58.5	580
687	Enhancement of Pt and Pt-alloy fuel cell catalyst activity and durability via nitrogen-modified carbon supports. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1437	35.4	521
686	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. <i>Nature</i> , <b>2005</b> , 435, 795-8	50.4	517
685	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1691-1697	9.6	443
684	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , <b>2017</b> , 4, 1600371	13.6	440
683	Recent progress on sodium ion batteries: potential high-performance anodes. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2310-2340	35.4	425
682	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 973-982	21.8	397
681	Synthesis, characterization and evaluation of cation-ordered LnBaCo2O5+las materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , <b>2008</b> , 56, 4876-4889	8.4	391
680	A comprehensive review of Li 4 Ti 5 O 12 -based electrodes for lithium-ion batteries: The latest advancements and future perspectives. <i>Materials Science and Engineering Reports</i> , <b>2015</b> , 98, 1-71	30.9	389
679	Progress in understanding and development of Ba0.5Sr0.5Co0.8Fe0.2O3Ebased cathodes for intermediate-temperature solid-oxide fuel cells: A review. <i>Journal of Power Sources</i> , <b>2009</b> , 192, 231-246	8.9	367
678	Flexible ZnIand Lilir batteries: recent advances, challenges, and future perspectives. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2056-2080	35.4	353
677	SrNb(0.1)Co(0.7)Fe(0.2)O(3-Iperovskite 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
676	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
675	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2016</b> , 28, 6442-8	24	315

## (2016-2012)

674	Advanced synthesis of materials for intermediate-temperature solid oxide fuel cells. <i>Progress in Materials Science</i> , <b>2012</b> , 57, 804-874	42.2	306
673	Intermediate-temperature electrochemical performance of a polycrystalline PrBaCo2O5+&athode on samarium-doped ceria electrolyte. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 96-105	8.9	282
672	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
671	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
670	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9973-10011	13.1	269
669	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602122	21.8	262
668	Advances in non-enzymatic glucose sensors based on metal oxides. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7333-7349	7.3	252
667	Recent advances in nanostructured metal nitrides for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19912-19933	13	243
666	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. <i>Carbon</i> , <b>2013</b> , 52, 181-192	10.4	242
665	Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. <i>Carbon</i> , <b>2015</b> , 93, 48-58	10.4	240
664	Ba effect in doped Sr(Co0.8Fe0.2)O3-Ibn the phase structure and oxygen permeation properties of the dense ceramic membranes. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 419-429	8.3	238
663	Enhancing Electrocatalytic Activity for Hydrogen Evolution by Strongly Coupled Molybdenum [email[protected] Carbon Porous Nano-Octahedrons. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3540-3547	13.1	235
662	Facile Synthesis of Nanocrystalline TiO2 Mesoporous Microspheres for Lithium-Ion Batteries. Journal of Physical Chemistry C, <b>2011</b> , 115, 2529-2536	3.8	229
661	Performance of a mixed-conducting ceramic membrane reactor with high oxygen permeability for methane conversion. <i>Journal of Membrane Science</i> , <b>2001</b> , 183, 181-192	9.6	209
660	A High-Performance Electrocatalyst for Oxygen Evolution Reaction: LiCo0.8 Fe0.2 O2. <i>Advanced Materials</i> , <b>2015</b> , 27, 7150-5	24	205
659	Zirconium doping effect on the performance of proton-conducting BaZryCe0.8JY0.2O3I[0.0 IJ ID.8) for fuel cell applications. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 400-407	8.9	202
658	Re-evaluation of Ba0.5Sr0.5Co0.8Fe0.2O3lperovskite as oxygen semi-permeable membrane. Journal of Membrane Science, <b>2007</b> , 291, 148-156	9.6	202
657	Phosphorus-Doped Perovskite Oxide as Highly Efficient Water Oxidation Electrocatalyst in Alkaline Solution. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5862-5872	15.6	199

656	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. <i>Small</i> , <b>2017</b> , 13, 1603793	11	197
655	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
654	Nitrogen-doped simple and complex oxides for photocatalysis: A review. <i>Progress in Materials Science</i> , <b>2018</b> , 92, 33-63	42.2	189
653	Synthesis of pristine and carbon-coated Li4Ti5O12 and their low-temperature electrochemical performance. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4997-5004	8.9	187
652	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
651	Evaluation of A-site cation-deficient (Ba0.5Sr0.5)1\( \text{LCo0.8Fe0.2O3}\( \text{Lx>0} \) perovskite as a solid-oxide fuel cell cathode. <i>Journal of Power Sources</i> , <b>2008</b> , 182, 24-31	8.9	186
650	Molecular Design of Mesoporous NiCo2O4 and NiCo2S4 with Sub-Micrometer-Polyhedron Architectures for Efficient Pseudocapacitive Energy Storage. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701229	15.6	185
649	A porous LiFePO4 and carbon nanotube composite. <i>Chemical Communications</i> , <b>2010</b> , 46, 7151-3	5.8	178
648	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500537	21.8	169
647	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energy-Related Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1800071	12.8	169
646	Recent Progress on Advanced Materials for Solid-Oxide Fuel Cells Operating Below 500 °C. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700132	24	167
645	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , <b>2020</b> , 11, 2002	17.4	166
644	Promotion of Oxygen Reduction by Exsolved Silver Nanoparticles on a Perovskite Scaffold for Low-Temperature Solid Oxide Fuel Cells. <i>Nano Letters</i> , <b>2016</b> , 16, 512-8	11.5	164
643	Recent advances in the interface engineering of solid-state Li-ion batteries with artificial buffer layers: challenges, materials, construction, and characterization. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1780-1804	35.4	163
642	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900883	24	161
641	Assessment of Ba0.5Sr0.5Co1 FeyO3 (y=0.0 d.0) for prospective application as cathode for IT-SOFCs or oxygen permeating membrane. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7343-7351	6.7	160
640	Nanodiamonds in sp2/sp3 configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 222, 176-181	21.8	157
639	La-doped BaFeO3lperovskite as a cobalt-free oxygen reduction electrode for solid oxide fuel cells with oxygen-ion conducting electrolyte. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15071		156

### (2019-2020)

638	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3361-3392	35.4	151
637	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803017	21.8	148
636	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. <i>Nature Communications</i> , <b>2017</b> , 8, 13990	17.4	144
635	Self-Catalyzed Growth of Co, N-Codoped CNTs on Carbon-Encased CoSx Surface: A Noble-Metal-Free Bifunctional Oxygen Electrocatalyst for Flexible Solid ZnAir Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904481	15.6	144
634	Developing a "Water-Defendable" and "Dendrite-Free" Lithium-Metal Anode Using a Simple and Promising GeCl Pretreatment Method. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705711	24	142
633	Facile spray-drying/pyrolysis synthesis of core\textsubsetell structure graphite/silicon-porous carbon composite as a superior anode for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 721-728	8.9	141
632	Synthesis, oxygen permeation study and membrane performance of a Ba0.5Sr0.5Co0.8Fe0.2O3D oxygen-permeable dense ceramic reactor for partial oxidation of methane to syngas. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 97-116	8.3	141
631	A new symmetric solid-oxide fuel cell with La0.8Sr0.2Sc0.2Mn0.8O3-perovskite oxide as both the anode and cathode. <i>Acta Materialia</i> , <b>2009</b> , 57, 1165-1175	8.4	140
630	Bigger is Surprisingly Better: Agglomerates of Larger RuP Nanoparticles Outperform Benchmark Pt Nanocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800047	24	139
629	Evaluation of Ba0.5Sr0.5Co0.8Fe0.2O3hs a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 15-22	8.9	138
628	Perovskite Oxide Based Electrodes for High-Performance Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 136-152	16.4	135
627	Two orders of magnitude enhancement in oxygen evolution reactivity on amorphous BaSrCoFeO nanofilms with tunable oxidation state. <i>Science Advances</i> , <b>2017</b> , 3, e1603206	14.3	134
626	Binder-free $\Box$ -MoO3 nanobelt electrode for lithium-ion batteries utilizing van der Waals forces for film formation and connection with current collector. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4736	13	133
625	Anion Doping: A New Strategy for Developing High-Performance Perovskite-Type Cathode Materials of Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700242	21.8	132
624	Water Splitting with an Enhanced Bifunctional Double Perovskite. ACS Catalysis, 2018, 8, 364-371	13.1	132
623	Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. <i>Joule</i> , <b>2019</b> , 3, 2842-2853	27.8	127
622	Surface exchange and bulk diffusion properties of Ba0.5Sr0.5Co0.8Fe0.2O3Imixed conductor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 6948-6956	6.7	124
621	Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 410-424	14.8	123

620	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. <i>RSC Advances</i> , <b>2011</b> , 1, 1661	3.7	123
619	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9619		123
618	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905025	24	122
617	Combustion synthesis of high-performance Li4Ti5O12 for secondary Li-ion battery. <i>Ceramics International</i> , <b>2009</b> , 35, 1757-1768	5.1	121
616	Unusual synergistic effect in layered Ruddlesden-Popper oxide enables ultrafast hydrogen evolution. <i>Nature Communications</i> , <b>2019</b> , 10, 149	17.4	116
615	A novel efficient oxide electrode for electrocatalytic oxygen reduction at 400-600 degrees C. <i>Chemical Communications</i> , <b>2008</b> , 5791-3	5.8	115
614	Efficient stabilization of cubic perovskite SrCoO3Iby B-site low concentration scandium doping combined with soligel synthesis. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 455, 465-470	5.7	114
613	Advances in three-dimensional graphene-based materials: configurations, preparation and application in secondary metal (Li, Na, K, Mg, Al)-ion batteries. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2030-2053	35.4	113
612	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
611	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 1-22	19.4	110
610	Synthesis of nanocrystalline conducting composite oxides based on a non-ion selective combined complexing process for functional applications. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 426, 368-374	5.7	109
609	Systematic Study of Oxygen Evolution Activity and Stability on LaSr FeO Perovskite Electrocatalysts in Alkaline Media. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2018</b> , 10, 11715-11721	9.5	107
608	Process investigation, electrochemical characterization and optimization of LiFePO4/C composite from mechanical activation using sucrose as carbon source. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 2861-2868	6.7	106
607	Nitrogen- and TiN-modified Li4Ti5O12: one-step synthesis and electrochemical performance optimization. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17773		104
606	Co O Nanosheets as Active Material for Hybrid Zn Batteries. <i>Small</i> , <b>2018</b> , 14, e1800225	11	103
605	Systematic investigation on new SrCo1 NbyO3 Teramic membranes with high oxygen semi-permeability. <i>Journal of Membrane Science</i> , <b>2008</b> , 323, 436-443	9.6	103
604	Recent Advances in Perovskite Oxides as Electrode Materials for Nonaqueous Lithium Dxygen Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602674	21.8	102
603	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

602	Barium- and strontium-enriched (Ba0.5Sr0.5)1+xCo0.8Fe0.2O3lbxides as high-performance cathodes for intermediate-temperature solid-oxide fuel cells. <i>Acta Materialia</i> , <b>2008</b> , 56, 2687-2698	8.4	101
601	SrCo(0.9)Ti(0.1)O(3-¶As a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. <i>ACS Applied Materials &amp; Discrete Section</i> , 7, 17663-70	9.5	97
600	Novel SrSc0.2Co0.8O3las a cathode material for low temperature solid-oxide fuel cell. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1647-1651	5.1	97
599	Thermal-expansion offset for high-performance fuel cell cathodes. <i>Nature</i> , <b>2021</b> , 591, 246-251	50.4	97
598	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
597	Properties and performance of A-site deficient (Ba0.5Sr0.5)1\( \text{LCo0.8Fe0.2O3} \) For oxygen permeating membrane. <i>Journal of Membrane Science</i> , <b>2007</b> , 306, 318-328	9.6	96
596	Rationally Designed Hierarchically Structured Tungsten Nitride and Nitrogen-Rich Graphene-Like Carbon Nanocomposite as Efficient Hydrogen Evolution Electrocatalyst. <i>Advanced Science</i> , <b>2018</b> , 5, 170	0493	95
595	Investigation on POM reaction in a new perovskite membrane reactor. <i>Catalysis Today</i> , <b>2001</b> , 67, 3-13	5.3	94
594	High-Performance GeTe-Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000367	21.8	94
593	Plasma activation and atomic layer deposition of TiO2 on polypropylene membranes for improved performances of lithium-ion batteries. <i>Journal of Membrane Science</i> , <b>2014</b> , 458, 217-224	9.6	93
592	BaNb0.05Fe0.95O3las a new oxygen reduction electrocatalyst for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9781	13	93
591	Cobalt Oxide and Cobalt-Graphitic Carbon Core-Shell Based Catalysts with Remarkably High Oxygen Reduction Reaction Activity. <i>Advanced Science</i> , <b>2016</b> , 3, 1600060	13.6	92
590	Facile mechanochemical synthesis of nano SnO2/graphene composite from coarse metallic Sn and graphite oxide: an outstanding anode material for lithium-ion batteries. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 4055-63	4.8	90
589	Simultaneous Power Conversion Efficiency and Stability Enhancement of Cs2AgBiBr6 Lead-Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001557	15.6	90
588	Scalable synthesis of self-standing sulfur-doped flexible graphene films as recyclable anode materials for low-cost sodium-ion batteries. <i>Carbon</i> , <b>2016</b> , 107, 67-73	10.4	89
587	Facile synthesis of nitrogen-doped carbon nanotubes encapsulating nickel cobalt alloys 3D networks for oxygen evolution reaction in an alkaline solution. <i>Journal of Power Sources</i> , <b>2017</b> , 338, 26-2	3 <sup>8</sup> .9	89
586	Trapping sulfur in hierarchically porous, hollow indented carbon spheres: a high-performance cathode for lithiumBulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9526-9535	13	87
585	Recent Advances in Metal-Organic Framework Derivatives as Oxygen Catalysts for Zinc-Air Batteries. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 272-289	5.6	87

584	A Universal Strategy to Design Superior Water-Splitting Electrocatalysts Based on Fast In Situ Reconstruction of Amorphous Nanofilm Precursors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804333	24	86
583	Synthesis and oxygen permeation study of novel perovskite-type BaBixCo0.2Fe0.8NO3Izeramic membranes. <i>Journal of Membrane Science</i> , <b>2000</b> , 164, 167-176	9.6	85
582	Flexible, Flame-Resistant, and Dendrite-Impermeable Gel-Polymer Electrolyte for Li-O /Air Batteries Workable Under Hurdle Conditions. <i>Small</i> , <b>2018</b> , 14, e1801798	11	83
581	A Comparative Study of Oxygen Reduction Reaction on Bi- and La-Doped SrFeO[sub 3] Perovskite Cathodes. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, B132	3.9	83
580	Facile synthesis of a MoO2Mo2CI composite and its application as favorable anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 552-560	8.9	82
579	Green synthesis of mesoporous ZnFe2O4/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
578	Systematic evaluation of Co-free LnBaFe2O5+[(Ln=Lanthanides or Y) oxides towards the application as cathodes for intermediate-temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , <b>2012</b> , 78, 466-474	6.7	8o
577	Electrochemical performance of silver-modified Ba0.5Sr0.5Co0.8Fe0.2O3Eathodes prepared via electroless deposition. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 4370-4380	6.7	80
576	High power-density single-chamber fuel cells operated on methane. <i>Journal of Power Sources</i> , <b>2006</b> , 162, 589-596	8.9	80
575	Activity and Stability of Ruddlesden-Popper-Type La(n+1) Ni(n) O(3n+1) (n=1, 2, 3, and DELectrocatalysts for Oxygen Reduction and Evolution Reactions in Alkaline Media. <i>Chemistry - AEuropean Journal</i> , <b>2016</b> , 22, 2719-27	4.8	80
574	Highly flexible self-standing film electrode composed of mesoporous rutile TiO2/C nanofibers for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 636-643	6.7	78
573	Properties and performance of Ba0.5Sr0.5Co0.8Fe0.2O3HSm0.2Ce0.8O1.9 composite cathode. Journal of Power Sources, <b>2008</b> , 179, 60-68	8.9	78
572	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. <i>Chemical Engineering Journal</i> , <b>2019</b> , 355, 721-730	14.7	78
571	An A-site-deficient perovskite offers high activity and stability for low-temperature solid-oxide fuel cells. <i>ChemSusChem</i> , <b>2013</b> , 6, 2249-54	8.3	77
570	Proton-conducting fuel cells operating on hydrogen, ammonia and hydrazine at intermediate temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2637-2642	6.7	77
569	Recent advances in anion-doped metal oxides for catalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7280-7300	13	76
568	Highly Defective Layered Double Perovskite Oxide for Efficient Energy Storage via Reversible Pseudocapacitive Oxygen-Anion Intercalation. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702604	21.8	76
567	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

### (2013-2011)

566	Different Effect of the Atmospheres on the Phase Formation and Performance of Li4Ti5O12 Prepared from Ball-Milling-Assisted Solid-Phase Reaction with Pristine and Carbon-Precoated TiO2 as Starting Materials. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4943-4952	3.8	76
565	Enhancing Electrode Performance by Exsolved Nanoparticles: A Superior Cobalt-Free Perovskite Electrocatalyst for Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Samp; Interfaces</i> , <b>2016</b> , 8, 35308-35314	9.5	76
564	Design of Perovskite Oxides as Anion-Intercalation-Type Electrodes for Supercapacitors: Cation Leaching Effect. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2016</b> , 8, 23774-83	9.5	75
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549	Porous TiO2(B)/anatase microspheres with hierarchical nano and microstructures for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 97, 386-392	6.7	70

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312	Mechanoactivation-assisted synthesis and electrochemical characterization of manganese lightly doped LiFePO4. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 492, 675-680	5.7	26	
311	Comparative study of doped ceria thin-film electrolytes prepared by wet powder spraying with powder synthesized via two techniques. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 393-401	8.9	26	
310	Hydrazine as efficient fuel for low-temperature SOFC through ex-situ catalytic decomposition with high selectivity toward hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7919-7924	6.7	26	
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304	Preparation and characterization of macroporous LiNi1/3Co1/3Mn1/3O2 using carbon sphere as template. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 129, 296-300	4.4	25	
303	Electrophoretic deposition of YSZ thin-film electrolyte for SOFCs utilizing electrostatic-steric stabilized suspensions obtained via high energy ball milling. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 9195-9204	6.7	25	
302	Improving single-chamber performance of an anode-supported SOFC by impregnating anode with active nickel catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8171-8176	6.7	25	
301	Solid-oxide fuel cell operated on in situ catalytic decomposition products of liquid hydrazine. Journal of Power Sources, <b>2008</b> , 177, 323-329	8.9	25	
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298	Fast operando spectroscopy tracking in situ generation of rich defects in silver nanocrystals for highly selective electrochemical CO reduction. <i>Nature Communications</i> , <b>2021</b> , 12, 660	17.4	25	
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295	Boosting oxygen evolution reaction by activation of lattice-oxygen sites in layered Ruddlesden-Popper oxide. <i>EcoMat</i> , <b>2020</b> , 2, e12021	9.4	24
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293	Enhancing the triiodide reduction activity of a perovskite-based electrocatalyst for dye-sensitized solar cells through exsolved silver nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17489-1749	7 <sup>13</sup>	24
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289	Evaluation of mixed-conducting lanthanum-strontium-cobaltite ceramic membrane for oxygen separation. <i>AICHE Journal</i> , <b>2009</b> , 55, 2603-2613	3.6	24
288	A comparative study of La0.8Sr0.2MnO3 and La0.8Sr0.2Sc0.1Mn0.9O3 as cathode materials of single-chamber SOFCs operating on a methanellir mixture. <i>Journal of Power Sources</i> , <b>2009</b> , 191, 225-23	2 <sup>8.9</sup>	24
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