

# Eric D Wachsman

## List of Publications by Year in descending order

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222  
papers

16,793  
citations

29994

54  
h-index

16127

124  
g-index

225  
all docs

225  
docs citations

225  
times ranked

11099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lowering the Temperature of Solid Oxide Fuel Cells. <i>Science</i> , 2011, 334, 935-939.	6.0	2,034
2	Negating interfacial impedance in garnet-based solid-state Li metal batteries. <i>Nature Materials</i> , 2017, 16, 572-579.	13.3	1,583
3	Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7094-7099.	3.3	769
4	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. <i>Chemical Reviews</i> , 2020, 120, 4257-4300.	23.0	655
5	Toward garnet electrolyte-based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. <i>Science Advances</i> , 2017, 3, e1601659.	4.7	647
6	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , 2017, 17, 565-571.	4.5	556
7	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. <i>Journal of the American Chemical Society</i> , 2016, 138, 12258-12262.	6.6	548
8	Reducing Interfacial Resistance between Garnet-Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. <i>Advanced Materials</i> , 2017, 29, 1606042.	11.1	512
9	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal-sulfur batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1568-1575.	15.6	499
10	Role of solid oxide fuel cells in a balanced energy strategy. <i>Energy and Environmental Science</i> , 2012, 5, 5498-5509.	15.6	272
11	Continuous plating/stripping behavior of solid-state lithium metal anode in a 3D ion-conductive framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3770-3775.	3.3	250
12	Garnet Solid Electrolyte Protected Li-Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18809-18815.	4.0	247
13	3D-Printing Electrolytes for Solid-State Batteries. <i>Advanced Materials</i> , 2018, 30, e1707132.	11.1	236
14	High-rate lithium cycling in a scalable trilayer Li-garnet-electrolyte architecture. <i>Materials Today</i> , 2019, 22, 50-57.	8.3	233
15	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. <i>ACS Energy Letters</i> , 0, , 1399-1404.	8.8	228
16	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14942-14947.	7.2	227
17	Higher conductivity Sm <sup>3+</sup> and Nd <sup>3+</sup> co-doped ceria-based electrolyte materials. <i>Solid State Ionics</i> , 2008, 178, 1890-1897.	1.3	191
18	Mechanism of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> cathode degradation. <i>Journal of Materials Research</i> , 2012, 27, 1992-1999.	1.2	189

#	ARTICLE	IF	CITATIONS
19	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701963.	10.2	186
20	Three-Dimensional, Solid-State Mixed Electron-Ion Conductive Framework for Lithium Metal Anode. <i>Nano Letters</i> , 2018, 18, 3926-3933.	4.5	175
21	Crystal Structure-Ionic Conductivity Relationships in Doped Ceria Systems. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2674-2681.	1.9	172
22	In Situ Neutron Depth Profiling of Lithium Metal-Garnet Interfaces for Solid State Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 14257-14264.	6.6	154
23	Structural Stability and Conductivity of Phase-Stabilized Cubic Bismuth Oxides. <i>Journal of the American Ceramic Society</i> , 1999, 82, 3057-3064.	1.9	144
24	Lithium-ion conductive ceramic textile: A new architecture for flexible solid-state lithium metal batteries. <i>Materials Today</i> , 2018, 21, 594-601.	8.3	134
25	Effect of total dopant concentration and dopant ratio on conductivity of $(\text{DyO}_{1.5})_{1-x}(\text{WO}_3)_x(\text{BiO}_{1.5})_1$ . <i>Acta Materialia</i> , 2010, 58, 355-363.	3.8	129
26	Low-temperature solid-oxide fuel cells. <i>MRS Bulletin</i> , 2014, 39, 773-779.	1.7	127
27	Effect of cure history on the morphology of polyimide: Fluorescence spectroscopy as a method for determining the degree of cure. <i>Polymer</i> , 1988, 29, 1191-1197.	1.8	117
28	3D lithium metal anodes hosted in asymmetric garnet frameworks toward high energy density batteries. <i>Energy Storage Materials</i> , 2018, 14, 376-382.	9.5	114
29	High-performance bilayered electrolyte intermediate temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1504-1507.	2.3	109
30	Improving the ionic conductivity of NASICON through aliovalent cation substitution of $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ . <i>Ionics</i> , 2015, 21, 3031-3038.	1.2	109
31	Higher ionic conductive ceria-based electrolytes for solid oxide fuel cells. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	108
32	All-in-one lithium-sulfur battery enabled by a porous-dense-porous garnet architecture. <i>Energy Storage Materials</i> , 2018, 15, 458-464.	9.5	108
33	The effect of oxygen vacancy concentration on the elastic modulus of fluorite-structured oxides. <i>Solid State Ionics</i> , 2007, 178, 53-58.	1.3	107
34	Ionic conduction in zirconia films of nanometer thickness. <i>Acta Materialia</i> , 2005, 53, 5161-5166.	3.8	103
35	Dependence of open-circuit potential and power density on electrolyte thickness in solid oxide fuel cells with mixed conducting electrolytes. <i>Journal of Power Sources</i> , 2011, 196, 2445-2451.	4.0	90
36	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. <i>Nano Letters</i> , 2017, 17, 4917-4923.	4.5	89

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37	Free-Standing $\text{Na}_{2/3}\text{Fe}_{1/2}\text{Mn}_{1/2}\text{O}_2$ @Graphene Film for a Sodium-Ion Battery Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4242-4247.	4.0	88
38	Effect of A and B-site cations on surface exchange coefficient for ABO <sub>3</sub> perovskite materials. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2298.	1.3	84
39	Effect of Crystal Imperfections on Reactivity and Photoreactivity of TiO <sub>2</sub> (Rutile) with Oxygen, Water, and Bacteria. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15711-15738.	1.5	82
40	Effect of oxygen sublattice order on conductivity in highly defective fluorite oxides. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1281-1285.	2.8	80
41	Nanoscale cathode modification for high performance and stable low-temperature solid oxide fuel cells (SOFCs). <i>Nano Energy</i> , 2018, 49, 186-192.	8.2	80
42	Defect chemistry modeling of high-temperature proton-conducting cerates. <i>Solid State Ionics</i> , 2002, 149, 1-10.	1.3	78
43	Performance of $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ and $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$    $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_2$ oxygen electrodes with $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_2$ barrier layer in reversible solid oxide fuel cells. <i>Journal of Power Sources</i> , 2013, 239, 361-373.	4.0	78
44	Role of Point Defects in the Physical Properties of Fluorite Oxides. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3162-3166.	1.9	74
45	Stabilizing the Garnet Solid-Electrolyte/Polysulfide Interface in Li-S Batteries. <i>Chemistry of Materials</i> , 2017, 29, 8037-8041.	3.2	73
46	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood. , 2019, 1, 354-361.		72
47	The evolution of low temperature solid oxide fuel cells. <i>Journal of Materials Research</i> , 2012, 27, 2063-2078.	1.2	70
48	Highly Conductive Li Garnets by a Multielement Doping Strategy. <i>Inorganic Chemistry</i> , 2015, 54, 3600-3607.	1.9	70
49	Effect of composition and microstructure on electrical properties and CO <sub>2</sub> stability of donor-doped, proton conducting $\text{BaCe}_{1-x}\text{Zr}_x\text{Nb}_y\text{O}_3$ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 2363.	5.2	64
50	Hydrogen-Permeable Tubular Membrane Reactor: Promoting Conversion and Product Selectivity for Non-Oxidative Activation of Methane over an $\text{Fe}_2\text{SiO}_5$ Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16149-16152.	7.2	64
51	Structural Investigation of Monoclinic-Rhombohedral Phase Transition in $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ and Doped NASICON. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2902-2907.	1.9	62
52	Thermal-Chemical Expansion in Strontium-Doped Lanthanum Cobalt Iron Oxide. <i>Journal of the American Ceramic Society</i> , 2010, 93, 4115-4121.	1.9	61
53	Rational Design of Lower-Temperature Solid Oxide Fuel Cell Cathodes via Nanotailoring of Co-Assembled Composite Structures. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13463-13467.	7.2	61
54	Fabrication and Characterization of High-Conductivity Bilayer Electrolytes for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2402-2408.	1.9	60

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55	Functionally Graded Bismuth Oxide/Zirconia Bilayer Electrolytes for High-Performance Intermediate-Temperature Solid Oxide Fuel Cells (IT-SOFCs). <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8443-8449.	4.0	58
56	Interfacial modification of La <sub>0.80</sub> Sr <sub>0.20</sub> MnO <sub>3</sub> ~{lambda}Er <sub>0.4</sub> Bi <sub>1.6</sub> O <sub>3</sub> cathodes for high performance lower temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012, 220, 324-330.	4.0	55
57	Gd <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>1.95</sub> /Er <sub>0.4</sub> Bi <sub>1.6</sub> O <sub>3</sub> bilayered electrolytes fabricated by a simple colloidal route using nano-sized Er <sub>0.4</sub> Bi <sub>1.6</sub> O <sub>3</sub> powders for high performance low temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012, 205, 122-128.	4.0	55
58	Modeling of Ordered Structures of Phase~{lambda}Stabilized Cubic Bismuth Oxides. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1964-1968.	1.9	54
59	Proton conduction in acceptor doped SnP <sub>2</sub> O <sub>7</sub> . <i>Solid State Ionics</i> , 2011, 183, 26-31.	1.3	54
60	Non-Nernstian planar sensors based on YSZ with a Nb <sub>2</sub> O <sub>5</sub> electrode. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 591-598.	4.0	53
61	Performance of anode-supported solid oxide fuel cell using novel ceria electrolyte. <i>Journal of Power Sources</i> , 2010, 195, 2131-2135.	4.0	53
62	Transition from perovskite to misfit-layered structure materials: a highly oxygen deficient and stable oxygen electrode catalyst. <i>Energy and Environmental Science</i> , 2021, 14, 2472-2484.	15.6	53
63	Mixed ionic-electronic conductor enabled effective cathode-electrolyte interface in all solid state batteries. <i>Nano Energy</i> , 2018, 50, 393-400.	8.2	52
64	Sensing properties and selectivities of a WO <sub>3</sub> /YSZ/Pt potentiometric NO <sub>x</sub> sensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 644-652.	4.0	51
65	Effect of dopant polarizability on oxygen sublattice order in phase-stabilized cubic bismuth oxides. <i>Ionics</i> , 2001, 7, 1-6.	1.2	49
66	Silver~{lambda}bismuth oxide cathodes for IT-SOFCs; Part I ~{lambda}Microstructural instability. <i>Solid State Ionics</i> , 2007, 178, 1242-1247.	1.3	48
67	Hydrogen permeation through thin supported SrCe <sub>0.7</sub> Zr <sub>0.2</sub> Eu <sub>0.1</sub> O <sub>3</sub> ~{lambda} membranes; dependence of flux on defect equilibria and operating conditions. <i>Journal of Membrane Science</i> , 2011, 381, 126-131.	4.1	48
68	Role of nanostructures on SOFC performance at reduced temperatures. <i>MRS Bulletin</i> , 2014, 39, 783-791.	1.7	48
69	Bismuth-Ruthenate-Based Cathodes for IT-SOFCs. <i>Journal of the Electrochemical Society</i> , 2005, 152, A787.	1.3	47
70	Stable and high conductivity ceria/bismuth oxide bilayer electrolytes for lower temperature solid oxide fuel cells. <i>Ionics</i> , 2006, 12, 15-20.	1.2	47
71	High temperature SrCe <sub>0.9</sub> Eu <sub>0.1</sub> O <sub>3</sub> ~{lambda} proton conducting membrane reactor for H <sub>2</sub> production using the water~{lambda}gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 234-239.	10.8	46
72	Comprehensive quantification of Ni~{lambda}Gd <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>1.95</sub> anode functional layer microstructures by three-dimensional reconstruction using a FIB/SEM dual beam system. <i>Journal of Power Sources</i> , 2013, 228, 220-228.	4.0	46

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73	Vacancy-Ordered Structure of Cubic Bismuth Oxide from Simulation and Crystallographic Analysis. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2349-2356.	1.9	45
74	Highly functional nano-scale stabilized bismuth oxides via reverse strike co-precipitation for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6199.	5.2	44
75	Improving microstructural quantification in FIB/SEM nanotomography. <i>Ultramicroscopy</i> , 2018, 184, 24-38.	0.8	44
76	NO <sub>x</sub> adsorption behavior of LaFeO <sub>3</sub> and LaMnO <sub>3</sub> + $\delta$ and its influence on potentiometric sensor response. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 159-170.	4.0	43
77	Effect of ruthenium-loading on the catalytic activity of Ru-NaZSM-5 zeolites for nitrous oxide decomposition. <i>Applied Catalysis B: Environmental</i> , 1995, 6, 21-33.	10.8	42
78	A critical assessment of interatomic potentials for ceria with application to its elastic properties. <i>Solid State Ionics</i> , 2010, 181, 551-556.	1.3	42
79	The effect of La <sub>2</sub> CuO <sub>4</sub> sensing electrode thickness on a potentiometric NO <sub>x</sub> sensor response. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 353-360.	4.0	41
80	Highly Li-Stuffed Garnet-Type Li <sub>7+x</sub> La <sub>3</sub> Zr <sub>2-x</sub> Y <sub>x</sub> O <sub>12</sub> . <i>Journal of the Electrochemical Society</i> , 2013, 160, A1248-A1255.	1.3	40
81	Bimodally integrated anode functional layer for lower temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 17113.	6.7	38
82	Continuum-Level Analytical Model for Solid Oxide Fuel Cells with Mixed Conducting Electrolytes. <i>Journal of the Electrochemical Society</i> , 2009, 156, B1030.	1.3	36
83	Microwave-assisted NO reduction by methane over Co-ZSM-5 zeolites. <i>Catalysis Letters</i> , 1999, 57, 187-191.	1.4	35
84	Hydrogen permeation through thin supported SrZr <sub>0.2</sub> Ce <sub>0.8</sub> xEu <sub>x</sub> O <sub>3</sub> + $\delta$ membranes. <i>Journal of Membrane Science</i> , 2009, 345, 1-4.	4.1	35
85	Dysprosium and Gadolinium Double Doped Bismuth Oxide Electrolytes for Low Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, F411-F415.	1.3	35
86	Enhanced long-term stability of bismuth oxide-based electrolytes for operation at 500 $\text{\AA}$ °C. <i>Ionics</i> , 2010, 16, 97-103.	1.2	34
87	Chromium Poisoning Effects on Surface Exchange Kinetics of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> + $\delta$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16660-16668.	4.0	34
88	NO <sub>2</sub> /NO response of Cr <sub>2</sub> O <sub>3</sub> - and SnO <sub>2</sub> -based potentiometric sensors and temperature-programmed reaction evaluation of the sensor elements. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 915-921.	4.0	33
89	High-Performance Composite Bi <sub>2</sub> Ru <sub>2</sub> O <sub>7</sub> + $\delta$ Bi <sub>1.6</sub> Er <sub>0.4</sub> O <sub>3</sub> Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B135.	1.3	33
90	Isotopic-switching analysis of oxygen reduction in solid oxide fuel cell cathode materials. <i>Solid State Ionics</i> , 2010, 181, 338-347.	1.3	33

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91	Stoichiometry of the $\text{La}_{0.6}\text{FeO}_{3-x}\text{Ta}_{1.5}\text{Y}_{0.5}\text{O}_{12}$ surface determined from first-principles and thermodynamic calculations. <i>Physical Review B</i> , 2011, 83, .	1.1	33
92	Effect of Excess Li on the Structural and Electrical Properties of Garnet-Type $\text{Li}_6\text{La}_3\text{Ta}_{1.5}\text{Y}_{0.5}\text{O}_{12}$ . <i>Journal of the Electrochemical Society</i> , 2015, 162, A1772-A1777.	1.3	33
93	Fabrication of organic-inorganic perovskite thin films for planar solar cells via pulsed laser deposition. <i>AIP Advances</i> , 2016, 6, 015001.	0.6	32
94	Bismuth Ruthenate-Stabilized Bismuth Oxide Composite Cathodes for IT-SOFC. <i>Journal of the Electrochemical Society</i> , 2007, 154, B1088.	1.3	31
95	Feasibility of low temperature solid oxide fuel cells operating on reformed hydrocarbon fuels. <i>Journal of Materials Chemistry</i> , 2012, 22, 22405.	6.7	31
96	Nanointegrated, High-Performing Cobalt-Free Bismuth-Based Composite Cathode for Low-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28635-28643.	4.0	31
97	Computation-guided discovery of coating materials to stabilize the interface between lithium garnet solid electrolyte and high-energy cathodes for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2021, 41, 571-580.	9.5	31
98	Temperature-Programmed Reaction and Desorption of the Sensor Elements of a $\text{WO}_3\text{-YSZ-Pt}$ Potentiometric Sensor. <i>Journal of the Electrochemical Society</i> , 2006, 153, H115.	1.3	30
99	Effect of Annealing Temperature and Dopant Concentration on the Conductivity Behavior in $(\text{DyO}_{1.5})_x(\text{WO}_3)_y(\text{BiO}_{1.5})_{1-x-y}$ . <i>Journal of the American Ceramic Society</i> , 2010, 93, 1384-1391.	1.3	30
100	Stable Mixed-Conducting Bilayer Membranes for Direct Conversion of Methane to Syngas. <i>Journal of the Electrochemical Society</i> , 2002, 149, A242.	1.3	29
101	Effect of $\text{La}_2\text{CuO}_4$ electrode area on potentiometric $\text{NO}_x$ sensor response and its implications on sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 304-312.	4.0	29
102	Amorphous-Carbon-Coated 3D Solid Electrolyte for an Electro-Chemomechanically Stable Lithium Metal Anode in Solid-State Batteries. <i>Nano Letters</i> , 2021, 21, 6163-6170.	4.5	29
103	Silver bismuth oxide cathodes for IT-SOFCs Part II "Improving stability through microstructural control. <i>Solid State Ionics</i> , 2007, 178, 1411-1418.	1.3	28
104	Effect of Electrode Microstructure on the Sensitivity and Response Time of Potentiometric $\text{NO}_x$ Sensors. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2024-2031.	1.9	27
105	Reaction Kinetics of Gas "Solid Exchange Using Gas Phase Isotopic Oxygen Exchange. <i>ACS Catalysis</i> , 2016, 6, 6025-6032.	5.5	27
106	Hydrogen-Permeable Tubular Membrane Reactor: Promoting Conversion and Product Selectivity for Non-Oxidative Activation of Methane over an $\text{Fe}@\text{SiO}_2$ Catalyst. <i>Angewandte Chemie</i> , 2016, 128, 16383-16386.	1.6	27
107	Microstructure and Connectivity Quantification of Complex Composite Solid Oxide Fuel Cell Electrode Three-Dimensional Networks. <i>Journal of the American Ceramic Society</i> , 2011, 94, 620-627.	1.9	26
108	Long-Term Cr Poisoning Effect on LSCF-GDC Composite Cathodes Sintered at Different Temperatures. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1091-F1099.	1.3	26

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109	Oxygen Dissociation Kinetics of Concurrent Heterogeneous Reactions on Metal Oxides. ACS Catalysis, 2017, 7, 5766-5772.	5.5	26
110	Applicability of Bi <sub>2</sub> Ru <sub>2</sub> O <sub>7</sub> Pyrochlore Electrodes for ESB and BIMEVOX Electrolytes. Journal of the Electrochemical Society, 2006, 153, A2232.	1.3	25
111	Effect of ionic polarizability on oxygen diffusion in $\hat{\Gamma}$ -Bi <sub>2</sub> O <sub>3</sub> from atomistic simulation. Ionics, 2010, 16, 297-303.	1.2	25
112	Effect of nanocomposite Au@YSZ electrodes on potentiometric sensor response to NO and CO. Sensors and Actuators B: Chemical, 2013, 181, 312-318.	4.0	25
113	Durability of (La <sub>0.8</sub> Sr <sub>0.2</sub> ) <sub>0.95</sub> MnO <sub>3</sub> - $\hat{\Gamma}$ -(Er <sub>0.2</sub> Bi <sub>0.8</sub> ) <sub>2</sub> O <sub>3</sub> composite cathodes for low temperature SOFCs. Journal of Power Sources, 2017, 360, 391-398.	4.0	25
114	Liquid- $\hat{\Gamma}$ Power Using Low-Temperature Solid Oxide Fuel Cells. Energy Technology, 2019, 7, 20-32.	1.8	25
115	Probing the Mechanical Properties of a Doped Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Garnet Thin Electrolyte for Solid-State Batteries. ACS Applied Materials & Interfaces, 2020, 12, 24693-24700.	4.0	24
116	Triple perovskite structured Nd <sub>1.5</sub> Ba <sub>1.5</sub> CoFeMnO <sub>9</sub> oxygen electrode materials for highly efficient and stable reversible protonic ceramic cells. Journal of Power Sources, 2021, 510, 230409.	4.0	24
117	Influence of Adsorption and Catalytic Reaction on Sensing Properties of a Potentiometric La <sub>2</sub> CuO <sub>4</sub> @YSZ@Pt Sensor. Journal of the Electrochemical Society, 2007, 154, J190.	1.3	23
118	Mechanistic Understanding of Cr Poisoning on La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> - $\hat{\Gamma}$ (LSCF). ECS Transactions, 2009, 25, 2871-2879.	0.3	23
119	Stannate-Based Ceramic Oxide as Anode Materials for Oxide-Ion Conducting Low-Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2016, 163, F1198-F1205.	1.3	23
120	Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6.5</sub> as a Low-Temperature Cathode for Bismuth Oxide Electrolytes. Journal of the Electrochemical Society, 2005, 152, A2300.	1.3	22
121	Schottky barrier formed by network of screw dislocations in SrTiO <sub>3</sub> . Applied Physics Letters, 2005, 87, 162105.	1.5	22
122	Direct current bias studies on (Bi <sub>2</sub> O <sub>3</sub> ) <sub>0.8</sub> (Er <sub>2</sub> O <sub>3</sub> ) <sub>0.2</sub> electrolyte and Ag@“(Bi <sub>2</sub> O <sub>3</sub> ) <sub>0.8</sub> (Er <sub>2</sub> O <sub>3</sub> ) <sub>0.2</sub> cermet electrode. Solid State Ionics, 2006, 177, 677-685.	1.3	22
123	Characterization of Lanthanum Zirconate Formation at the Site-Deficient Strontium-Doped Lanthanum Manganite Cathode/Yttrium-Stabilized Zirconia Electrolyte Interface of Solid Oxide Fuel Cells. Journal of the American Ceramic Society, 2008, 91, 2670-2675.	1.9	22
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126	Lower Temperature Electrolytic Reduction of CO <sub>2</sub> to O <sub>2</sub> and CO with High-Conductivity Solid Oxide Bilayer Electrolytes. Journal of the Electrochemical Society, 2005, 152, A1654.	1.3	21

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131	Highly Sensitive/Selective Miniature Potentiometric Carbon Monoxide Gas Sensors with Titania-Based Sensing Elements. Journal of the American Ceramic Society, 2010, 93, 1062-1068.	1.9	18
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