

# Eric D Wachsman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211  
papers

12,579  
citations

51  
h-index

108  
g-index

225  
ext. papers

14,598  
ext. citations

7.2  
avg, IF

6.76  
L-index

#	Paper	IF	Citations
211	Mixed Protonic-Electronic Conductivity of SrCe <sub>1-x</sub> Pr <sub>x</sub> O <sub>3</sub> . <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 014505	3.9	
210	Enhancing capacity of lithium spinel via chlorination and triple doping with transition metals for next generation lithium based batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 528, 231225	8.9	1
209	Effect of the 3D Structure and Grain Boundaries on Lithium Transport in Garnet Solid Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4786-4804	6.1	3
208	Amorphous-Carbon-Coated 3D Solid Electrolyte for an Electro-Chemomechanically Stable Lithium Metal Anode in Solid-State Batteries. <i>Nano Letters</i> , <b>2021</b> , 21, 6163-6170	11.5	3
207	Methane-to-aromatics in a gas recycle methane reactor/hydrogen membrane separator. <i>Catalysis Today</i> , <b>2021</b> , 365, 80-87	5.3	5
206	Transition from perovskite to misfit-layered structure materials: a highly oxygen deficient and stable oxygen electrode catalyst. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2472-2484	35.4	13
205	Simulating Electrochemical Performance of Solid-State Electrolyte Bilayers Characterized by FIB Tomography. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2500-2502	0.5	
204	Controlling exsolution with a charge-balanced doping approach. <i>Nano Energy</i> , <b>2021</b> , 87, 106193	17.1	3
203	Catalyst-Exsolving Anode-Supported Low-Temperature Solid Oxide Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 094503	3.9	
202	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. <i>Journal of Power Sources</i> , <b>2021</b> , 510, 230409	8.9	6
201	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> , <b>2021</b> , 41, 571-580	19.4	7
200	Effects of surface chemical potentials on cation segregation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 1593-1602	13	2
199	Probing the Mechanical Properties of a Doped LiLaZrO Garnet Thin Electrolyte for Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24693-24700	9.5	10
198	Highly Durable, Surface Modified SOFCs Running on Hydrocarbon Fuels at 600 °C. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 104509	3.9	1
197	A Redox-Robust Ceramic Anode-Supported Low-Temperature Solid Oxide Fuel Cell. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18526-18532	9.5	7
196	The Effects of Constriction Factor and Geometric Tortuosity on Li-Ion Transport in Porous Solid-State Li-Ion Electrolytes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910362	15.6	9
195	Predicting the flexural strength of Li-ion-conducting garnet type oxide for solid-state-batteries. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 5186-5195	3.8	5

194	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. <i>Chemical Reviews</i> , <b>2020</b> , 120, 4257-4300	68.1	271
193	Defect chemistry and oxygen non-stoichiometry in SrFe <sub>0.2</sub> Co <sub>0.4</sub> Mo <sub>0.4</sub> O <sub>3-<math>\delta</math></sub> ceramic oxide for solid oxide fuel cells. <i>Ionics</i> , <b>2020</b> , 26, 5641-5649	2.7	2
192	Dual utilization of greenhouse gases to produce C <sub>2</sub> + hydrocarbons and syngas in a hydrogen-permeable membrane reactor. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 117557	9.6	10
191	Effect of H <sub>2</sub> O and CO <sub>2</sub> on LSCF-GDC Composite Cathodes. <i>ECS Transactions</i> , <b>2019</b> , 91, 665-680	1	4
190	Development of a new ceria/yttria-ceria double-doped bismuth oxide bilayer electrolyte low-temperature SOFC with higher stability. <i>Ionics</i> , <b>2019</b> , 25, 3153-3164	2.7	8
189	Electrochemical Stability of Garnet-Type Li <sub>7</sub> La <sub>2.75</sub> Ca <sub>0.25</sub> Zr <sub>1.75</sub> Nb <sub>0.25</sub> O <sub>12</sub> with and without Atomic Layer Deposited-Al <sub>2</sub> O <sub>3</sub> under CO <sub>2</sub> and Humidity. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1844-A1852	3.9	18
188	Evolution of Solid Oxide Fuel Cells via Fast Interfacial Oxygen Crossover. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4069-4074	6.1	3
187	In Situ Surface Monitoring of Charge Transfer during Oxidation of Zirconia at Elevated Temperatures. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2810-2817	6.1	4
186	High-rate lithium cycling in a scalable trilayer Li-garnet-electrolyte architecture. <i>Materials Today</i> , <b>2019</b> , 22, 50-57	21.8	147
185	Liquids-to-Power Using Low-Temperature Solid Oxide Fuel Cells. <i>Energy Technology</i> , <b>2019</b> , 7, 20-32	3.5	15
184	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood <b>2019</b> , 1, 354-361		34
183	CO <sub>2</sub> and O <sub>2</sub> Co-Exchange on Multivalent Metal Oxides. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 17711-17718	3.8	18
182	Flexural strength and flaw distributions of SrFe <sub>0.2</sub> Co <sub>0.4</sub> Mo <sub>0.4</sub> O <sub>3-<math>\delta</math></sub> ceramic-supports for SOFCs at operating conditions. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 7606-7616	3.8	1
181	CHAPTER 1: Bilayer Electrolytes for Low Temperature and Intermediate Temperature Solid Oxide Fuel Cells [A Review. <i>Inorganic Materials Series</i> , <b>2019</b> , 1-41	0.8	5
180	Optimizing rhombohedral Bi <sub>2</sub> O <sub>3</sub> conductivity for low temperature SOFC electrolytes. <i>Ionics</i> , <b>2019</b> , 25, 3531-3536	2.7	4
179	High temperature mechanical behavior of porous ceria and ceria-based solid-oxide fuel cells. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 5565-5575	3.8	0
178	Improved Sulfur Tolerance of SOFCs through Surface Modification of Anodes. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1559-1566	6.1	9
177	3D lithium metal anodes hosted in asymmetric garnet frameworks toward high energy density batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 14, 376-382	19.4	73

176	Nanoscale cathode modification for high performance and stable low-temperature solid oxide fuel cells (SOFCs). <i>Nano Energy</i> , <b>2018</b> , 49, 186-192	17.1	48
175	Lithium-ion conductive ceramic textile: A new architecture for flexible solid-state lithium metal batteries. <i>Materials Today</i> , <b>2018</b> , 21, 594-601	21.8	93
174	Molecular Reactions of O <sub>2</sub> and CO <sub>2</sub> on Ionically Conducting Catalyst. <i>ACS Catalysis</i> , <b>2018</b> , 8, 1231-1237	13.1	7
173	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> , <b>2018</b> , 115, 3770-3775	11.5	178
172	3D-Printing Electrolytes for Solid-State Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707132	24	142
171	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701963	21.8	125
170	First principles hybrid functional study of small polarons in doped SrCeO <sub>3</sub> perovskite: towards computation design of materials with tailored polaron. <i>Ionics</i> , <b>2018</b> , 24, 1139-1151	2.7	8
169	Nanointegrated, High-Performing Cobalt-Free Bismuth-Based Composite Cathode for Low-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28635-28643	9.5	23
168	All-in-one lithium-sulfur battery enabled by a porous-dense-porous garnet architecture. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 458-464	19.4	73
167	3D Microstructure Reconstruction and Characterization of Solid-State Electrolyte with Varying Porosity. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 814-815	0.5	
166	Towards Mixed Ionic and Electronic Conducting Li-Stuffed Garnets. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2303-A2311	3.9	9
165	Improving microstructural quantification in FIB/SEM nanotomography. <i>Ultramicroscopy</i> , <b>2018</b> , 184, 24-38	3.1	29
164	Assessing Substitution Effects on Surface Chemistry by in Situ Ambient Pressure X-ray Photoelectron Spectroscopy on Perovskite Thin Films, BaCe <sub>x</sub> Zr <sub>1-x</sub> YO <sub>3</sub> (x = 0; 0.2; 0.9). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37661-37670	9.5	12
163	Highly Performing Chromate-Based Ceramic Anodes (YCaCrCu O) for Low-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36075-36081	9.5	10
162	Three-Dimensional, Solid-State Mixed Electron-Ion Conductive Framework for Lithium Metal Anode. <i>Nano Letters</i> , <b>2018</b> , 18, 3926-3933	11.5	108
161	Mixed ionic-electronic conductor enabled effective cathode-electrolyte interface in all solid state batteries. <i>Nano Energy</i> , <b>2018</b> , 50, 393-400	17.1	40
160	Investigation on Sr <sub>0.2</sub> Na <sub>0.8</sub> Nb <sub>1-x</sub> V <sub>x</sub> O <sub>3</sub> (x=0.1, 0.2, 0.3) as new ceramic anode materials for low-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2017</b> , 347, 277-282	8.9	14
159	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> , <b>2017</b> , 9, 8443-8449	9.5	42

158	Reducing Interfacial Resistance between Garnet-Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606042	24	378
157	Garnet Solid Electrolyte Protected Li-Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18809-18815	9.5	181
156	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal-sulfur batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1568-1575	35.4	368
155	Chromium Poisoning Effects on Surface Exchange Kinetics of LaSrCoFeO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16660-16668	9.5	24
154	Direct observation of enhanced water and carbon dioxide reactivity on multivalent metal oxides and their composites. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 919-923	35.4	14
153	Toward garnet electrolyte-based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. <i>Science Advances</i> , <b>2017</b> , 3, e1601659	14.3	482
152	Negating interfacial impedance in garnet-based solid-state Li metal batteries. <i>Nature Materials</i> , <b>2017</b> , 16, 572-579	27	1192
151	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , <b>2017</b> , 17, 565-571	11.5	416
150	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14942-14947	16.4	160
149	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15138-15143	3.6	10
148	In Situ Neutron Depth Profiling of Lithium Metal-Garnet Interfaces for Solid State Batteries. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14257-14264	16.4	117
147	Stabilizing the Garnet Solid-Electrolyte/Polysulfide Interface in LiS Batteries. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8037-8041	9.6	67
146	Oxygen Dissociation Kinetics of Concurrent Heterogeneous Reactions on Metal Oxides. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5766-5772	13.1	19
145	Ceria/Bismuth Oxide Bilayer Electrolyte based Low-Temperature SOFCs with Stable Electrochemical Performance. <i>ECS Transactions</i> , <b>2017</b> , 78, 361-370	1	5
144	Mechanical Properties of SOFC Anode Support Materials at Operating Conditions. <i>ECS Transactions</i> , <b>2017</b> , 78, 2285-2291	1	
143	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 4917-4923	11.5	72
142	Durability of (La <sub>0.8</sub> Sr <sub>0.2</sub> ) <sub>0.95</sub> MnO <sub>3</sub> -(Er <sub>0.2</sub> Bi <sub>0.8</sub> ) <sub>2</sub> O <sub>3</sub> composite cathodes for low temperature SOFCs. <i>Journal of Power Sources</i> , <b>2017</b> , 360, 391-398	8.9	17
141	Electrochemical Performance and Stability of LSM-ESB Cathode. <i>ECS Transactions</i> , <b>2017</b> , 78, 573-580	1	2

140	Chromate-Based Oxide Anodes for Low-Temperature Operating Solid Oxide Fuel Cells. <i>ECS Transactions</i> , <b>2017</b> , 78, 1319-1325	1	2
139	In-Operando Determination of SOFC Cathode Oxygen Surface Exchange Coefficients for Enhanced Oxygen Reduction Reaction Kinetics. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, F3035-F3044	3.9	4
138	Hydrogen-Permeable Tubular Membrane Reactor: Promoting Conversion and Product Selectivity for Non-Oxidative Activation of Methane over an Fe $\square$ SiO $_2$ Catalyst. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16383-16386	3.6	21
137	Hydrogen-Permeable Tubular Membrane Reactor: Promoting Conversion and Product Selectivity for Non-Oxidative Activation of Methane over an Fe $\square$ SiO Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 16149-16152	16.4	47
136	Long-Term Cr Poisoning Effect on LSCF-GDC Composite Cathodes Sintered at Different Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F1091-F1099	3.9	19
135	Direct Observation of Oxygen Dissociation on Non-Stoichiometric Metal Oxide Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15268-15271	16.4	12
134	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> , <b>2016</b> , 113, 7094-9	11.5	593
133	Electrochemical and Catalytic Properties of Fe-Doped SrCo $_{0.9-x}$ Nb $_{0.1}$ Fe $_x$ O $_3$ -Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F979-F987	3.9	4
132	Effect of Oxygen Activity on the n $\beta$ Transition for Pure and Cr-Doped TiO $_2$ . <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3221-3228	3.8	12
131	Dysprosium and Gadolinium Double Doped Bismuth Oxide Electrolytes for Low Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F411-F415	3.9	18
130	Fabrication of organic-inorganic perovskite thin films for planar solar cells via pulsed laser deposition. <i>AIP Advances</i> , <b>2016</b> , 6, 015001	1.5	25
129	Direct Observation of Oxygen Dissociation on Non-Stoichiometric Metal Oxide Catalysts. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15494-15497	3.6	
128	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12258-62	16.4	424
127	Stannate-Based Ceramic Oxide as Anode Materials for Oxide-Ion Conducting Low-Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F1198-F1205	3.9	22
126	Reaction Kinetics of Gas/Solid Exchange Using Gas Phase Isotopic Oxygen Exchange. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6025-6032	13.1	19
125	Investigating the Relationship between Operating Conditions and SOFC Cathode Degradation. <i>ECS Transactions</i> , <b>2015</b> , 68, 773-784	1	4
124	Highly conductive Li garnets by a multielement doping strategy. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 3600-7	5.1	57
123	Effect of Excess Li on the Structural and Electrical Properties of Garnet-Type Li $_6$ La $_3$ Ta $_{1.5}$ Y $_{0.5}$ O $_{12}$ . <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A1772-A1777	3.9	22

122	Improving the ionic conductivity of NASICON through aliovalent cation substitution of Na <sub>3</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> . <i>Ionics</i> , <b>2015</b> , 21, 3031-3038	2.7	60
121	Structural Investigation of Monoclinic-Rhombohedral Phase Transition in Na <sub>3</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> and Doped NASICON. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2902-2907	3.8	36
120	Three Dimensional Microstructural Characterization of Cathode Degradation in SOFCs Using FIB/SEM and TEM. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 2161-2162	0.5	2
119	Effect of composition and microstructure on electrical properties and CO <sub>2</sub> stability of donor-doped, proton conducting BaCe <sub>1-x</sub> (x+y)Zr <sub>x</sub> Nb <sub>y</sub> O <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2363	13	52
118	Low-temperature solid-oxide fuel cells. <i>MRS Bulletin</i> , <b>2014</b> , 39, 773-779	3.2	95
117	Free-standing Na <sub>(2/3)</sub> Fe <sub>(1/2)</sub> Mn <sub>(1/2)</sub> O <sub>(2)</sub> @graphene film for a sodium-ion battery cathode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4242-7	9.5	76
116	Rational Design of Lower-Temperature Solid Oxide Fuel Cell Cathodes via Nanotailoring of Co-Assembled Composite Structures. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13681-13685	3.6	12
115	Role of nanostructures on SOFC performance at reduced temperatures. <i>MRS Bulletin</i> , <b>2014</b> , 39, 783-791	3.2	35
114	Rational design of lower-temperature solid oxide fuel cell cathodes via nanotailoring of co-assembled composite structures. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13463-7	16.4	53
113	Terbium and Tungsten Co-doped Bismuth Oxide Electrolytes for Low Temperature Solid Oxide Fuel Cells. <i>Journal of the Korean Ceramic Society</i> , <b>2014</b> , 51, 260-264	2.2	6
112	Highly functional nano-scale stabilized bismuth oxides via reverse strike co-precipitation for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6199	13	40
111	Performance of La <sub>0.1</sub> Sr <sub>0.9</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> and La <sub>0.1</sub> Sr <sub>0.9</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> /Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2</sub> oxygen electrodes with Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2</sub> barrier layer in reversible solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 239, 361-373	8.9	68
110	Effect of nanocomposite Au/YSZ electrodes on potentiometric sensor response to NO <sub>x</sub> and CO. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 181, 312-318	8.5	20
109	Enhanced oxygen reduction reaction with nano-scale pyrochlore bismuth ruthenate via cost-effective wet-chemical synthesis. <i>RSC Advances</i> , <b>2013</b> , 3, 19866	3.7	14
108	Comprehensive quantification of Ni <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> , <b>2013</b> , 228, 220-228	8.9	39
107	Effect of A and B-site cations on surface exchange coefficient for ABO <sub>3</sub> perovskite materials. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 2298-308	3.6	74
106	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> , <b>2013</b> , 160, A1248-A1255	3.9	34
105	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> , <b>2012</b> , 205, 122-128	8.9	49

104	SrCe <sub>0.7</sub> Zr <sub>0.2</sub> Eu <sub>0.1</sub> O <sub>3</sub> -based hydrogen transport water gas shift reactor. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 16006-16012	6.7	18
103	Role of solid oxide fuel cells in a balanced energy strategy. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5498-5509	35.4	241
102	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> , <b>2012</b> , 27, 1992-1999	2.5	163
101	Bimodally integrated anode functional layer for lower temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17113		33
100	The evolution of low temperature solid oxide fuel cells. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 2063-2078		60
99	Interfacial modification of La <sub>0.80</sub> Sr <sub>0.20</sub> MnO <sub>3</sub> Bi <sub>0.4</sub> Bi <sub>0.6</sub> O <sub>3</sub> cathodes for high performance lower temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 220, 324-330	8.9	51
98	Feasibility of low temperature solid oxide fuel cells operating on reformed hydrocarbon fuels. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22405		28
97	Carbon dioxide reforming of methane in a SrCe <sub>0.7</sub> Zr <sub>0.2</sub> Eu <sub>0.1</sub> O <sub>3</sub> proton conducting membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 19125-19132	6.7	14
96	Effect of Ni-Gd <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>1.95</sub> Anode Functional Layer Composition on Performance of Lower Temperature SOFCs. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, F187-F193	3.9	17
95	Stoichiometry of the LaFeO <sub>3</sub> (010) surface determined from first-principles and thermodynamic calculations. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	29
94	Microstructure and Connectivity Quantification of Complex Composite Solid Oxide Fuel Cell Electrode Three-Dimensional Networks. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 620-627	3.8	22
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70	A critical assessment of interatomic potentials for ceria with application to its elastic properties. <i>Solid State Ionics</i> , <b>2010</b> , 181, 551-556	3.3	39
69	Effect of total dopant concentration and dopant ratio on conductivity of (DyO <sub>1.5</sub> ) <sub>x</sub> (WO <sub>3</sub> ) <sub>y</sub> (BiO <sub>1.5</sub> ) <sub>1-x-y</sub> . <i>Acta Materialia</i> , <b>2010</b> , 58, 355-363	8.4	102

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66	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-<math>\delta</math></sub> (LSCF). <i>ECS Transactions</i> , <b>2009</b> , 25, 2871-2879	1	21
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