

Kazunari Sasaki

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244
papers

5,460
citations

36
h-index

66
g-index

292
ext. papers

6,184
ext. citations

3.3
avg, IF

5.76
L-index

#	Paper	IF	Citations
244	Platinum monolayer on nonnoble metal-noble metal core-shell nanoparticle electrocatalysts for O ₂ reduction. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22701-4	3.4	502
243	H ₂ S Poisoning of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2023	3.9	217
242	Poisoning of SOFC anodes by various fuel impurities. <i>Solid State Ionics</i> , 2008 , 179, 1427-1431	3.3	183
241	Fuel flexibility in power generation by solid oxide fuel cells. <i>Solid State Ionics</i> , 2002 , 152-153, 411-416	3.3	179
240	Internal reforming SOFC running on biogas. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 7905-7912	3.7	154
239	Equilibria in Fuel Cell Gases. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A878	3.9	150
238	Equilibria in Fuel Cell Gases. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A885	3.9	141
237	Chemical durability of Solid Oxide Fuel Cells: Influence of impurities on long-term performance. <i>Journal of Power Sources</i> , 2011 , 196, 9130-9140	8.9	139
236	Feasibility of direct-biogas SOFC. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6316-6321	6.7	132
235	Re-analysis of defect equilibria and transport parameters in Y ₂ O ₃ -stabilized ZrO ₂ using EPR and optical relaxation. <i>Solid State Ionics</i> , 2000 , 134, 303-321	3.3	121
234	Microstructure-Property Relations of Solid Oxide Fuel Cell Cathodes and Current Collectors: Cathodic Polarization and Ohmic Resistance. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 530-543	3.9	119
233	Carbon-Free Pt Electrocatalysts Supported on SnO ₂ for Polymer Electrolyte Fuel Cells: Electrocatalytic Activity and Durability. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B1270	3.9	100
232	Carbon-Free Pt Electrocatalysts Supported on SnO ₂ for Polymer Electrolyte Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B119		97
231	High Temperature Proton Conduction in Nanocellulose Membranes: Paper Fuel Cells. <i>Chemistry of Materials</i> , 2016 , 28, 4805-4814	9.6	95
230	Remarkably Durable High Temperature Polymer Electrolyte Fuel Cell Based on Poly(vinylphosphonic acid)-doped Polybenzimidazole. <i>Scientific Reports</i> , 2013 , 3,	4.9	90
229	Influence of water vapor on long-term performance and accelerated degradation of solid oxide fuel cell cathodes. <i>Journal of Power Sources</i> , 2011 , 196, 7090-7096	8.9	79
228	Public perception on hydrogen infrastructure in Japan: Influence of rollout of commercial fuel cell vehicles. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7290-7296	6.7	78

227	Low-temperature defect chemistry of oxides. I. General aspects and numerical calculations. <i>Journal of Applied Physics</i> , 1999 , 86, 5422-5433	2.5	72
226	Characterization of a graphene oxide membrane fuel cell. <i>Journal of Power Sources</i> , 2014 , 272, 239-247	8.9	71
225	Vertically aligned nanocomposite La _{0.8} Sr _{0.2} CoO ₃ /(La _{0.5} Sr _{0.5}) ₂ CoO ₄ cathodes [Electronic structure, surface chemistry and oxygen reduction kinetics. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 207-219	13	60
224	Current-Voltage Characteristics and Impedance Analysis of Solid Oxide Fuel Cells for Mixed H ₂ and CO Gases. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A227	3.9	59
223	Evaluation of change in nanostructure through the heat treatment of carbon materials and their durability for the start/stop operation of polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2013 , 97, 33-41	6.7	56
222	Lattice Strain Mapping of Platinum Nanoparticles on Carbon and SnO ₂ Supports. <i>Scientific Reports</i> , 2015 , 5, 13126	4.9	56
221	Direct-Alcohol SOFCs: Current-Voltage Characteristics and Fuel Gas Compositions. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A965	3.9	55
220	Bottom-up design of carbon nanotube-based electrocatalysts and their application in high temperature operating polymer electrolyte fuel cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1187-1190		54
219	Alkaline anion exchange membranes based on KOH-treated multilayer graphene oxide. <i>Journal of Membrane Science</i> , 2016 , 508, 51-61	9.6	53
218	Cycle durability of metal oxide supports for PEFC electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 5074-5082	6.7	51
217	Alternative Electrocatalyst Support Materials for Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2010 , 33, 473-482	1	50
216	Effect of proton-conduction in electrolyte on electric efficiency of multi-stage solid oxide fuel cells. <i>Scientific Reports</i> , 2015 , 5, 12640	4.9	49
215	SOFC Durability against Standby and Shutdown Cycling. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F850-F860	3.9	48
214	Multi-Fuel Capability of Solid Oxide Fuel Cells. <i>Journal of Electroceramics</i> , 2004 , 13, 669-675	1.5	46
213	Defective Nitrogen-Doped Graphene Foam: A Metal-Free, Non-Precious Electrocatalyst for the Oxygen Reduction Reaction in Acid. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F544-F550	3.9	40
212	Chlorine Poisoning of SOFC Ni-Cermet Anodes. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B1233	3.9	40
211	Spray-painted graphene oxide membrane fuel cells. <i>Journal of Membrane Science</i> , 2017 , 541, 347-357	9.6	38
210	Defective Graphene Foam: A Platinum Catalyst Support for PEMFCs. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F838-F844	3.9	37

209	Nb ₂ O ₅ -Based Composite Electrodes for Dye-Sensitized Solar Cells.. <i>Journal of the Ceramic Society of Japan</i> , 2000 , 108, 1067-1071		37
208	Fuel Impurity Tolerance of Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2007 , 7, 1675-1683	1	35
207	Platinum-Decorated Tin Oxide and Niobium-Doped Tin Oxide PEFC Electrocatalysts: Oxygen Reduction Reaction Activity. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1208-F1213	3.9	34
206	Estimation of flooding in PEMFC gas diffusion layer by differential pressure measurement. <i>Journal of Power Sources</i> , 2008 , 175, 732-738	8.9	34
205	Tunable Mixed Ionic/Electronic Conductivity and Permittivity of Graphene Oxide Paper for Electrochemical Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11466-75	9.5	34
204	Carbon Foam Decorated with Silver Nanoparticles for Electrochemical CO ₂ Conversion. <i>Energy Technology</i> , 2017 , 5, 861-863	3.5	33
203	SOFC anodes impregnated with noble metal catalyst nanoparticles for high fuel utilization. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 8502-8518	6.7	33
202	Electronic Conductivity of In ₂ O ₃ Solid Solutions with ZrO ₂ . <i>Journal of the Electrochemical Society</i> , 1994 , 141, 2759-2768	3.9	32
201	Hydrogen adsorption on graphene foam synthesized by combustion of sodium ethoxide. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 376-380	6.7	31
200	Thermo-mechanical reliability and catalytic activity of Ni/Zirconia anode supports in internal reforming SOFC running on biogas. <i>Solid State Ionics</i> , 2012 , 225, 113-117	3.3	31
199	Sulfur Poisoning of SOFCs: Voltage Oscillation and Ni Oxidation. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F693-F701	3.9	31
198	Improving the Si Impurity Tolerance of Pr _{0.1} Ce _{0.9} O _{2-δ} SOFC Electrodes with Reactive Surface Additives. <i>Chemistry of Materials</i> , 2015 , 27, 3065-3070	9.6	30
197	Exchange Current Density of Solid Oxide Fuel Cell Electrodes. <i>ECS Transactions</i> , 2011 , 35, 1007-1014	1	29
196	Comparison between numerical simulation and visualization experiment on water behavior in single straight flow channel polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2008 , 177, 303-313	8.9	29
195	NiO/B ₂ C ₃ SZ and Ni _{0.9} Mg _{0.1} O/B ₂ C ₃ SZ-based anodes under internal dry reforming of simulated biogas mixtures. <i>Journal of Power Sources</i> , 2008 , 180, 738-741	8.9	29
194	Low-temperature defect chemistry of oxides. II. Analytical relations. <i>Journal of Applied Physics</i> , 1999 , 86, 5434-5443	2.5	29
193	Recent Achievements of NEDO Durability Project with an Emphasis on Correlation Between Cathode Overpotential and Ohmic Loss. <i>Fuel Cells</i> , 2017 , 17, 473-497	2.9	28
192	Solvothermal synthesis of superhydrophobic hollow carbon nanoparticles from a fluorinated alcohol. <i>Nanoscale</i> , 2015 , 7, 16087-93	7.7	28

191	Study on paper-structured catalyst for direct internal reforming SOFC fueled by the mixture of CH ₄ and CO ₂ . <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10542-10551	6.7	28
190	Development of a polyaniline nanofiber-based carbon monoxide sensor for hydrogen fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13529-13535	6.7	28
189	Anode gas recirculation for improving the performance and cost of a 5-kW solid oxide fuel cell system. <i>Journal of Power Sources</i> , 2016 , 325, 229-237	8.9	25
188	Degradation of Solid Oxide Fuel Cell Cathodes Accelerated at a High Water Vapor Concentration. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		25
187	Nitrogen-Doped Carbon Foam as a Highly Durable Metal-Free Electrocatalyst for the Oxygen Reduction Reaction in Alkaline Solution. <i>Electrochimica Acta</i> , 2016 , 220, 554-561	6.7	25
186	The interplay and impact of strain and defect association on the conductivity of rare-earth substituted ceria. <i>Acta Materialia</i> , 2019 , 166, 447-458	8.4	25
185	Physicochemical properties of Ba(Zr,Ce)O ₃ -based proton-conducting electrolytes for solid oxide fuel cells in terms of chemical stability and electrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16722-16730	6.7	23
184	Ni-loaded (Ce,Zr)O ₂ -dispersed paper-structured catalyst for dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 4951-4960	6.7	23
183	Paper-structured catalyst for the steam reforming of biodiesel fuel. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 11278-11287	6.7	23
182	Physicochemical properties of proton-conductive Ba(Zr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1})O ₃ solid electrolyte in terms of electrochemical performance of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17539-17547	6.7	23
181	Hydrotalcite-dispersed paper-structured catalyst for the dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10807-10815	6.7	22
180	Comparison of chromium poisoning among solid oxide fuel cell cathode materials. <i>Solid State Ionics</i> , 2014 , 262, 421-427	3.3	22
179	Effects of operating conditions on performance of high-temperature polymer electrolyte water electrolyzer. <i>Journal of Power Sources</i> , 2016 , 318, 192-199	8.9	22
178	In-Situ ESEM and EELS Observation of Water Uptake and Ice Formation in Multilayer Graphene Oxide. <i>Scientific Reports</i> , 2015 , 5, 11807	4.9	21
177	Influence of SO ₂ on the Long-Term Durability of SOFC Cathodes. <i>ECS Transactions</i> , 2011 , 35, 2255-2260	1	21
176	Ni _{1-x} Mg _x Al _y O ₃ -SZ anodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2006 , 177, 1371-1380	3.3	21
175	Simulation of SOFC performance using a modified exchange current density for pre-reformed methane-based fuels. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6912-6925	6.7	19
174	Durability of template-free Fe-N-C foams for electrochemical oxygen reduction in alkaline solution. <i>Journal of Power Sources</i> , 2018 , 375, 244-254	8.9	19

173	Metal-Free Nitrogen-Doped Carbon Foam Electrocatalysts for the Oxygen Reduction Reaction in Acid Solution. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F1049-F1054	3.9	19
172	Platinum-Decorated Nitrogen-Doped Graphene Foam Electrocatalysts. <i>Fuel Cells</i> , 2014 , 14, 728-734	2.9	19
171	Feasibility of palm-biodiesel fuel for a direct internal reforming solid oxide fuel cell. <i>International Journal of Energy Research</i> , 2013 , 37, 609-616	4.5	19
170	In Situ Measurement of Temperature Distribution across a Proton Exchange Membrane Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B126		19
169	Release and Diffusion Rate of Helium in Neutron-Irradiated SiC. <i>Journal of Nuclear Science and Technology</i> , 2004 , 41, 751-755	1	19
168	Highly redox-resistant solid oxide fuel cell anode materials based on La-doped SrTiO ₃ by catalyst impregnation strategy. <i>Journal of Power Sources</i> , 2016 , 320, 180-187	8.9	19
167	Influence of cathode polarization on the chromium deposition near the cathode/electrolyte interface of SOFC. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1463-1475	6.7	18
166	Phosphorus Poisoning of Ni-Cermet Anodes in Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1693	3.9	18
165	Direct-Alcohol/Hydrocarbon SOFCs : Comparison of Power Generation Characteristics for Various Fuels. <i>Electrochemistry</i> , 2002 , 70, 18-22	1.2	18
164	Characterization of an electrochemical hydrogen pump with internal humidifier and dead-end anode channel. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13879-13887	6.7	17
163	Spray deposition of Nafion membranes: Electrode-supported fuel cells. <i>Journal of Power Sources</i> , 2016 , 327, 319-326	8.9	16
162	Performance enhancement of biodiesel fueled SOFC using paper-structured catalyst. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9856-9866	6.7	16
161	Correlating Cathode Microstructure with PEFC Performance Using FIB-SEM and TEM. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F928-F934	3.9	16
160	Negligible Start-Stop-Cycle Degradation in a PEFC Utilizing Platinum-Decorated Tin Oxide Electrocatalyst Layers with Carbon Fiber Filler. <i>ECS Electrochemistry Letters</i> , 2014 , 3, F15-F18		16
159	The Influence of Water Vapor and SO ₂ on the Durability of Solid Oxide Fuel Cell. <i>ECS Transactions</i> , 2009 , 25, 2859-2866	1	16
158	Redox cycling induced Ni exsolution in Gd _{0.1} Ce _{0.8} Ni _{0.1} O ₂ - (Sr _{0.9} La _{0.1}) _{0.9} Ti _{0.9} Ni _{0.1} O ₃ composite solid oxide fuel cell anodes. <i>Journal of Power Sources</i> , 2017 , 370, 122-130	8.9	15
157	Development of paper-structured catalyst for application to direct internal reforming solid oxide fuel cell fueled by biogas. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10484-10497	6.7	15
156	Exchange Current Density of SOFC Electrodes: Theoretical Relations and Partial Pressure Dependencies Rate-Determined by Electrochemical Reactions. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F136-F152	3.9	15

155	Impact of microstructure and crystallinity on surface exchange kinetics of strontium titanium iron oxide perovskite by in situ optical transmission relaxation approach. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23006-23019	13	13
154	Study of the solid-state reaction at the interface between lanthanoid-doped ceria and yttria-stabilized zirconia for solid-oxide fuel cell applications. <i>Solid State Ionics</i> , 2015 , 282, 1-6	3.3	13
153	Robust SOFC anode materials with La-doped SrTiO ₃ backbone structure. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17044-17052	6.7	13
152	Atomic-resolution analysis of degradation phenomena in SOFCs: A case study of SO ₂ poisoning in LSM cathodes. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 12214-12221	6.7	12
151	Evaluation of proton conductivity of sulfonated polyimide/dihydroxy naphthalene charge-transfer complex hybrid membranes. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 2991-2997	2.5	12
150	Chemical Degradation of SOFCs: External Impurity Poisoning and Internal Diffusion-Related Phenomena. <i>ECS Transactions</i> , 2013 , 57, 315-323	1	12
149	High-pressure C-H-O diagrams: Fuel composition, carbon deposition, and open circuit voltage of pressurized SOFCs. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30769-30786	6.7	12
148	XRD and Raman Spectroscopy Study of Fe solubility in Cerium Oxide. <i>ECS Transactions</i> , 2013 , 50, 53-58	1	12
147	Sulfur Poisoning of SOFCs: Dependence on Operational Parameters. <i>ECS Transactions</i> , 2011 , 35, 1717-1725		12
146	Thermochemical Stability of Sulfur Compounds in Fuel Cell Gases Related to Fuel Impurity Poisoning. <i>Journal of Fuel Cell Science and Technology</i> , 2008 , 5,		12
145	Effectiveness of paper-structured catalyst for the operation of biodiesel-fueled solid oxide fuel cell. <i>Journal of Power Sources</i> , 2015 , 283, 320-327	8.9	11
144	TEM and ETEM Study on SrZrO ₃ Formation at the LSCF/GDC/YSZ Interfaces. <i>ECS Transactions</i> , 2017 , 78, 993-1001	1	11
143	Application of Biofuels to Solid Oxide Fuel Cell. <i>ECS Transactions</i> , 2011 , 35, 2641-2651	1	11
142	Effect of Sulfonation Level on Sulfonated Aromatic Poly(ether sulfone) Membranes as Polymer Electrolyte for High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 2692-2699	2.6	11
141	Redox-stable Sr _{0.9} La _{0.1} TiO ₃ -supported SOFC single cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6941-6949	6.7	10
140	Alternative Ni-Impregnated Mixed Ionic-Electronic Conducting Anode for SOFC Operation at High Fuel Utilization. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F3055-F3063	3.9	10
139	Overpotentials and reaction mechanism in electrochemical hydrogen pumps. <i>Electrochimica Acta</i> , 2019 , 301, 274-283	6.7	10
138	Experimental and theoretical study of charge-transfer complex hybrid polyimide membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 293-298	2.6	10

137	Chemical Degradation and Poisoning Mechanism of Cermet Anodes in Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2009 , 25, 2031-2038	1	10
136	Mechanism of SrZrO ₃ Formation at GDC/YSZ Interface of SOFC Cathode. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F959-F965	3.9	10
135	Ru-based SOFC anodes: Preparation, performance, and durability. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6950-6964	6.7	9
134	A solid polymer water electrolysis system utilizing natural circulation. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16263-16274	6.7	9
133	Electrochemical Oxygen Reduction on Metal-Free Nitrogen-Doped Graphene Foam in Acidic Media. <i>ECS Transactions</i> , 2013 , 58, 1529-1540	1	9
132	Impurity Poisoning of SOFCs. <i>ECS Transactions</i> , 2011 , 35, 2805-2814	1	9
131	Cooperative Investigations on Degradation of Cathode Materials in Segment-In-Series Cells by MHI. <i>ECS Transactions</i> , 2011 , 35, 2191-2200	1	9
130	Development of polymer-polymer type charge-transfer blend membranes for fuel cell application. <i>Journal of Membrane Science</i> , 2018 , 548, 223-231	9.6	9
129	PEFC Electrocatalysts Supported on Nb-SnO ₂ for MEAs with High Activity and Durability: Part I. Application of Different Carbon Fillers. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F1154-F1163	3.9	9
128	Start-Up Characteristics of Segmented-In-Series Tubular SOFC Power Modules Improved by Catalytic Combustion at Cathodes. <i>Fuel Cells</i> , 2014 , 14, 1028-1035	2.9	8
127	Carbon-free Pt Electrocatalysts Supported on Doped SnO ₂ for Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2009 , 25, 831-837	1	8
126	Proposal of ultra-high-efficiency zero-emission power generation systems. <i>Journal of Power Sources</i> , 2020 , 448, 227459	8.9	8
125	Experimental Design for Voltage Driven Tracer Incorporation and Diffusion Studies on Oxide Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F809-F814	3.9	7
124	Emergence of Rapid Oxygen Surface Exchange Kinetics during in Situ Crystallization of Mixed Conducting Thin Film Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9102-9116	9.5	7
123	XRD and Raman Spectroscopy Study of Mn Solubility in Cerium Oxide. <i>ECS Transactions</i> , 2013 , 57, 1607-1612	1	7
122	Modifying Grain Boundary Ionic/Electronic Transport in Nano-Sr- and Mg- Doped LaGaO ₃ -by Sintering Variations. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F569-F580	3.9	6
121	Oxidation-induced degradation and performance fluctuation of solid oxide fuel cell Ni anodes under simulated high fuel utilization conditions. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9386-9399	6.7	6
120	In Operando Visualization of SOFC Electrodes by Thermography and Visible Light Imaging. <i>ECS Electrochemistry Letters</i> , 2015 , 4, F61-F64		6

119	Oxidation-Induced Degradation of SOFC Ni Anodes at High Fuel Utilizations. <i>ECS Transactions</i> , 2015 , 68, 1345-1352	1	6
118	Degradation of SOFCs by Various Impurities: Impedance Spectroscopy and Microstructural Analysis. <i>ECS Transactions</i> , 2017 , 78, 1253-1260	1	6
117	Microstructural Characterization of SrZrO ₃ Formation and the Influence to SOFC Performance. <i>ECS Transactions</i> , 2015 , 68, 2463-2470	1	6
116	A visualization study on relationship between water-droplet behavior and cell voltage appeared in straight, parallel and serpentine channel pattern cells. <i>Journal of Power Sources</i> , 2011 , 196, 5377-5385	8.9	6
115	Modelling of CH ₄ multiple-reforming within the Ni-YSZ anode of a solid oxide fuel cell. <i>Journal of Power Sources</i> , 2017 , 359, 507-519	8.9	6
114	Aliphatic SPI charge-transfer complex hybrid films for high temperature polymer electrolyte membrane fuel cells. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46087	2.9	6
113	PEFC Electrocatalysts Supported on Nb-SnO ₂ for MEAs with High Activity and Durability: Part II. Application of Bimetallic Pt-Alloy Catalysts. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F1164-F1175	3.9	6
112	Modification of Surface Oxide Layer of Fe-Cr-Al Alloy with Coating Materials for SOFC Applications. <i>Fuel Cells</i> , 2017 , 17, 83-89	2.9	5
111	Achievements of NEDO Durability Projects on SOFC Stacks in the Light of Physicochemical Mechanisms. <i>Fuel Cells</i> , 2019 , 19, 311	2.9	5
110	Suppression of Leakage Current in Proton-Conducting BaZr _{0.8} Y _{0.2} O ₃ Electrolyte by Forming Hole-Blocking Layer. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 084515	3.9	5
109	Interplay of Grain Size Dependent Electronic and Ionic Conductivity in Electrochemical Polarization Studies on Sr-Doped LaMnO ₃ (LSM) Thin Film Cathodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F702-F709	3.9	5
108	Characterization of yttrium-doped ceria with various yttrium concentrations as cathode interlayers of SOFCs. <i>Ionics</i> , 2017 , 23, 95-103	2.7	5
107	PEFC-type impurity sensors for hydrogen fuels. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16256-16263	2.7	5
106	Pt-Decorated Graphene-like Foam for Electrochemical Oxygen Reduction with High Mass Activity. <i>ECS Transactions</i> , 2013 , 58, 1751-1762	1	5
105	Effect of Water Vapor and SO _x in Air on the Cathodes of Solid Oxide Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1041, 1		5
104	Advanced Direct Internal Reforming Concepts for Solid Oxide Fuel Cells Running with Biogas. <i>ECS Transactions</i> , 2017 , 78, 2467-2476	1	5
103	Development of Charge-Transfer Complex Hybrid Films as Polymer Electrolyte Membrane for High Temperature PEFC Operation. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 654-663	2.6	5
102	Spray deposition of sulfonated cellulose nanofibers as electrolyte membranes in fuel cells. <i>Cellulose</i> , 2021 , 28, 1355-1367	5.5	5

101	In situ transmission electron microscopic observations of redox cycling of a Ni-ScSZ cermet fuel cell anode. <i>Microscopy (Oxford, England)</i> , 2018 , 67, 251-258	1.3	5
100	Hydrogen pump-type impurity sensors for hydrogen fuels. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3281-3293	6.7	4
99	Decrease in electrical resistance of surface oxide of iron-chromium-aluminum alloy by La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ coating and heat treatment for the application of metal-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015 , 297, 181-187	8.9	4
98	An FIB-SEM Study on Correlations between PEFC Electrocatalyst Microstructure and Cell Performance. <i>ECS Transactions</i> , 2016 , 75, 347-354	1	4
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96	Development of a Heat-Treated Polymer-Polymer Type Charge-Transfer Blend Membrane for Application in Polymer Electrolyte Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8715-8723	6.1	4
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