

# Kazunari Sasaki

## List of Publications by Year in descending order

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288  
papers

6,854  
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76294

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76872

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292  
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docs citations

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times ranked

6072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum Monolayer on Nonnoble Metal~Noble Metal Core~Shell Nanoparticle Electrocatalysts for O <sub>2</sub> Reduction. Journal of Physical Chemistry B, 2005, 109, 22701-22704.	1.2	541
2	H <sub>2</sub> S Poisoning of Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2006, 153, A2023.	1.3	237
3	Fuel flexibility in power generation by solid oxide fuel cells. Solid State Ionics, 2002, 152-153, 411-416.	1.3	215
4	Poisoning of SOFC anodes by various fuel impurities. Solid State Ionics, 2008, 179, 1427-1431.	1.3	213
5	Internal reforming SOFC running on biogas. International Journal of Hydrogen Energy, 2010, 35, 7905-7912.	3.8	181
6	Microstructure~Property Relations of Solid Oxide Fuel Cell Cathodes and Current Collectors: Cathodic Polarization and Ohmic Resistance. Journal of the Electrochemical Society, 1996, 143, 530-543.	1.3	171
7	Equilibria in Fuel Cell Gases. Journal of the Electrochemical Society, 2003, 150, A878.	1.3	168
8	Equilibria in Fuel Cell Gases. Journal of the Electrochemical Society, 2003, 150, A885.	1.3	167
9	Chemical durability of Solid Oxide Fuel Cells: Influence of impurities on long-term performance. Journal of Power Sources, 2011, 196, 9130-9140.	4.0	160
10	Feasibility of direct-biogas SOFC. International Journal of Hydrogen Energy, 2008, 33, 6316-6321.	3.8	155
11	Public perception on hydrogen infrastructure in Japan: Influence of rollout of commercial fuel cell vehicles. International Journal of Hydrogen Energy, 2017, 42, 7290-7296.	3.8	141
12	Re-analysis of defect equilibria and transport parameters in Y <sub>2</sub> O <sub>3</sub> -stabilized ZrO <sub>2</sub> using EPR and optical relaxation. Solid State Ionics, 2000, 134, 303-321.	1.3	138
13	High Temperature Proton Conduction in Nanocellulose Membranes: Paper Fuel Cells. Chemistry of Materials, 2016, 28, 4805-4814.	3.2	134
14	Carbon-Free Pt Electrocatalysts Supported on SnO <sub>2</sub> for Polymer Electrolyte Fuel Cells: Electrocatalytic Activity and Durability. Journal of the Electrochemical Society, 2011, 158, B1270.	1.3	114
15	Carbon-Free Pt Electrocatalysts Supported on SnO <sub>2</sub> for Polymer Electrolyte Fuel Cells. Electrochemical and Solid-State Letters, 2009, 12, B119.	2.2	106
16	Remarkably Durable High Temperature Polymer Electrolyte Fuel Cell Based on Poly(vinylphosphonic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.6	98
17	Influence of water vapor on long-term performance and accelerated degradation of solid oxide fuel cell cathodes. Journal of Power Sources, 2011, 196, 7090-7096.	4.0	95
18	Characterization of a graphene oxide membrane fuel cell. Journal of Power Sources, 2014, 272, 239-247.	4.0	93

#	ARTICLE	IF	CITATIONS
19	Low-temperature defect chemistry of oxides. I. General aspects and numerical calculations. Journal of Applied Physics, 1999, 86, 5422-5433.	1.1	89
20	Vertically aligned nanocomposite La <sub>0.8</sub> Sr <sub>0.2</sub> CoO <sub>3</sub> /(La <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>2</sub> CoO <sub>4</sub> cathodes – electronic structure, surface chemistry and oxygen reduction kinetics. Journal of Materials Chemistry A, 2015, 3, 207-219.	3.2	76
21	Direct-Alcohol SOFCs: Current-Voltage Characteristics and Fuel Gas Compositions. Journal of the Electrochemical Society, 2004, 151, A965.	1.3	70
22	Effect of proton-conduction in electrolyte on electric efficiency of multi-stage solid oxide fuel cells. Scientific Reports, 2015, 5, 12640.	1.6	69
23	Alkaline anion exchange membranes based on KOH-treated multilayer graphene oxide. Journal of Membrane Science, 2016, 508, 51-61.	4.1	69
24	Cycle durability of metal oxide supports for PEFC electrocatalysts. International Journal of Hydrogen Energy, 2014, 39, 5074-5082.	3.8	65
25	Lattice Strain Mapping of Platinum Nanoparticles on Carbon and SnO <sub>2</sub> Supports. Scientific Reports, 2015, 5, 13126.	1.6	65
26	Current-Voltage Characteristics and Impedance Analysis of Solid Oxide Fuel Cells for Mixed H <sub>2</sub> and CO Gases. Journal of the Electrochemical Society, 2002, 149, A227.	1.3	64
27	Bottom-up design of carbon nanotube-based electrocatalysts and their application in high temperature operating polymer electrolyte fuel cells. Journal of Materials Chemistry, 2011, 21, 1187-1190.	6.7	63
28	Multi-Fuel Capability of Solid Oxide Fuel Cells. Journal of Electroceramics, 2004, 13, 669-675.	0.8	62
29	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. Electrochimica Acta, 2013, 97, 33-41.	2.6	62
30	SOFC Durability against Standby and Shutdown Cycling. Journal of the Electrochemical Society, 2014, 161, F850-F860.	1.3	62
31	SOFC anodes impregnated with noble metal catalyst nanoparticles for high fuel utilization. International Journal of Hydrogen Energy, 2019, 44, 8502-8518.	3.8	58
32	Spray-painted graphene oxide membrane fuel cells. Journal of Membrane Science, 2017, 541, 347-357.	4.1	55
33	Alternative Electrocatalyst Support Materials for Polymer Electrolyte Fuel Cells. ECS Transactions, 2010, 33, 473-482.	0.3	54
34	Electronic Conductivity of In <sub>2</sub> O <sub>3</sub> Solid Solutions with ZrO <sub>2</sub> . Journal of the Electrochemical Society, 1994, 141, 2759-2768.	1.3	48
35	Chlorine Poisoning of SOFC Ni-Cermet Anodes. Journal of the Electrochemical Society, 2008, 155, B1233.	1.3	47
36	Low-temperature defect chemistry of oxides. II. Analytical relations. Journal of Applied Physics, 1999, 86, 5434-5443.	1.1	44

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37	Tunable Mixed Ionic/Electronic Conductivity and Permittivity of Graphene Oxide Paper for Electrochemical Energy Conversion. ACS Applied Materials & Interfaces, 2016, 8, 11466-11475.	4.0	44
38	Exchange Current Density of Solid Oxide Fuel Cell Electrodes. ECS Transactions, 2011, 35, 1007-1014.	0.3	43
39	Estimation of flooding in PEMFC gas diffusion layer by differential pressure measurement. Journal of Power Sources, 2008, 175, 732-738.	4.0	42
40	Defective Graphene Foam: A Platinum Catalyst Support for PEMFCs. Journal of the Electrochemical Society, 2014, 161, F838-F844.	1.3	42
41	Defective Nitrogen-Doped Graphene Foam: A Metal-Free, Non-Precious Electrocatalyst for the Oxygen Reduction Reaction in Acid. Journal of the Electrochemical Society, 2014, 161, F544-F550.	1.3	41
42	Nb <sub>2</sub> O <sub>5</sub> -Based Composite Electrodes for Dye-Sensitized Solar Cells. Journal of the Ceramic Society of Japan, 2000, 108, 1067-1071.	1.3	40
43	Fuel Impurity Tolerance of Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 1675-1683.	0.3	39
44	Recent Achievements of NEDO Durability Project with an Emphasis on Correlation Between Cathode Overpotential and Ohmic Loss. Fuel Cells, 2017, 17, 473-497.	1.5	39
45	Simulation of SOFC performance using a modified exchange current density for pre-reformed methane-based fuels. International Journal of Hydrogen Energy, 2020, 45, 6912-6925.	3.8	39
46	Hydrogen adsorption on graphene foam synthesized by combustion of sodium ethoxide. International Journal of Hydrogen Energy, 2014, 39, 376-380.	3.8	37
47	Improving the Si Impurity Tolerance of Pr <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>2-δ</sub> SOFC Electrodes with Reactive Surface Additives. Chemistry of Materials, 2015, 27, 3065-3070.	3.2	37
48	Carbon Foam Decorated with Silver Nanoparticles for Electrochemical CO <sub>2</sub> Conversion. Energy Technology, 2017, 5, 861-863.	1.8	37
49	Effects of operating conditions on performance of high-temperature polymer electrolyte water electrolyzer. Journal of Power Sources, 2016, 318, 192-199.	4.0	36
50	Thermo-mechanical reliability and catalytic activity of Ni-Zirconia anode supports in internal reforming SOFC running on biogas. Solid State Ionics, 2012, 225, 113-117.	1.3	35
51	Physicochemical properties of Ba(Zr,Ce)O <sub>3-δ</sub> -based proton-conducting electrolytes for solid oxide fuel cells in terms of chemical stability and electrochemical performance. International Journal of Hydrogen Energy, 2017, 42, 16722-16730.	3.8	35
52	Ni-loaded (Ce,Zr)O <sub>2-δ</sub> -dispersed paper-structured catalyst for dry reforming of methane. International Journal of Hydrogen Energy, 2018, 43, 4951-4960.	3.8	35
53	Platinum-Decorated Tin Oxide and Niobium-Doped Tin Oxide PEFC Electrocatalysts: Oxygen Reduction Reaction Activity. Journal of the Electrochemical Society, 2014, 161, F1208-F1213.	1.3	34
54	Solvothermal synthesis of superhydrophobic hollow carbon nanoparticles from a fluorinated alcohol. Nanoscale, 2015, 7, 16087-16093.	2.8	34

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55	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.	4.0	33
56	Sulfur Poisoning of SOFCs: Voltage Oscillation and Ni Oxidation. <i>Journal of the Electrochemical Society</i> , 2012, 159, F693-F701.	1.3	33
57	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.	3.8	33
58	Study on paper-structured catalyst for direct internal reforming SOFC fueled by the mixture of CH <sub>4</sub> and CO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10542-10551.	3.8	32
59	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.	4.0	32
60	Ni <sup>0.9</sup> Mg <sup>0.1</sup> ScSZ and Ni <sup>0.9</sup> Mg <sup>0.1</sup> ScSZ-based anodes under internal dry reforming of simulated biogas mixtures. <i>Journal of Power Sources</i> , 2008, 180, 738-741.	4.0	31
61	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.	3.8	31
62	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.	3.8	31
63	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, .	0.8	30
64	Physicochemical properties of proton-conductive Ba(Zr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> )O <sub>3-<math>\delta</math></sub> solid electrolyte in terms of electrochemical performance of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17539-17547.	3.8	30
65	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.	2.6	28
66	Spray deposition of Nafion membranes: Electrode-supported fuel cells. <i>Journal of Power Sources</i> , 2016, 327, 319-326.	4.0	27
67	Correlating Cathode Microstructure with PEFC Performance Using FIB-SEM and TEM. <i>Journal of the Electrochemical Society</i> , 2017, 164, F928-F934.	1.3	27
68	Paper-structured catalyst for the steam reforming of biodiesel fuel. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11278-11287.	3.8	25
69	In-Situ ESEM and EELS Observation of Water Uptake and Ice Formation in Multilayer Graphene Oxide. <i>Scientific Reports</i> , 2015, 5, 11807.	1.6	25
70	Achievements of NEDO Durability Projects on SOFC Stacks in the Light of Physicochemical Mechanisms. <i>Fuel Cells</i> , 2019, 19, 311-339.	1.5	25
71	Direct-Alcohol/Hydrocarbon SOFCs : Comparison of Power Generation Characteristics for Various Fuels. <i>Electrochemistry</i> , 2002, 70, 18-22.	0.6	24
72	In Situ Measurement of Temperature Distribution across a Proton Exchange Membrane Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, B126.	2.2	24

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73	Influence of SO <sub>2</sub> on the Long-Term Durability of SOFC Cathodes. ECS Transactions, 2011, 35, 2255-2260.	0.3	24
74	Durability of template-free Fe-N-C foams for electrochemical oxygen reduction in alkaline solution. Journal of Power Sources, 2018, 375, 244-254.	4.0	24
75	Release and Diffusion Rate of Helium in Neutron-Irradiated SiC. Journal of Nuclear Science and Technology, 2004, 41, 751-755.	0.7	23
76	Ni <sup>1-x</sup> Y <sup>x</sup> Mg <sub>x</sub> Al <sub>1-x</sub> O <sub>3</sub> -ScSZ anodes for solid oxide fuel cells. Solid State Ionics, 2006, 177, 1371-1380.	1.3	23
77	Feasibility of palm-biodiesel fuel for a direct internal reforming solid oxide fuel cell. International Journal of Energy Research, 2013, 37, 609-616.	2.2	23
78	Comparison of chromium poisoning among solid oxide fuel cell cathode materials. Solid State Ionics, 2014, 262, 421-427.	1.3	23
79	Hydrotalcite-dispersed paper-structured catalyst for the dry reforming of methane. International Journal of Hydrogen Energy, 2015, 40, 10807-10815.	3.8	23
80	Exchange Current Density of SOFC Electrodes: Theoretical Relations and Partial Pressure Dependencies Rate-Determined by Electrochemical Reactions. Journal of the Electrochemical Society, 2015, 162, F136-F152.	1.3	23
81	Highly redox-resistant solid oxide fuel cell anode materials based on La-doped SrTiO <sub>3</sub> by catalyst impregnation strategy. Journal of Power Sources, 2016, 320, 180-187.	4.0	23
82	Phosphorus Poisoning of Ni-Cermet Anodes in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2010, 157, B1693.	1.3	22
83	Influence of cathode polarization on the chromium deposition near the cathode/electrolyte interface of SOFC. International Journal of Hydrogen Energy, 2014, 39, 1463-1475.	3.8	22
84	Development of paper-structured catalyst for application to direct internal reforming solid oxide fuel cell fueled by biogas. International Journal of Hydrogen Energy, 2019, 44, 10484-10497.	3.8	22
85	Accelerated Durability Testing of Fuel Cell Stacks for Commercial Automotive Applications: A Case Study. Journal of the Electrochemical Society, 2022, 169, 044523.	1.3	22
86	Metal-Free Nitrogen-Doped Carbon Foam Electrocatalysts for the Oxygen Reduction Reaction in Acid Solution. Journal of the Electrochemical Society, 2016, 163, F1049-F1054.	1.3	21
87	Study of the solid-state reaction at the interface between lanthanoid-doped ceria and yttria-stabilized zirconia for solid-oxide fuel cell applications. Solid State Ionics, 2015, 282, 1-6.	1.3	20
88	Spray deposition of sulfonated cellulose nanofibers as electrolyte membranes in fuel cells. Cellulose, 2021, 28, 1355-1367.	2.4	20
89	Towards understanding of oxygen electrode processes during solid oxide electrolysis operation to improve simultaneous fuel and oxygen generation. Journal of Power Sources, 2021, 492, 229600.	4.0	20
90	Performance enhancement of biodiesel fueled SOFC using paper-structured catalyst. International Journal of Hydrogen Energy, 2013, 38, 9856-9866.	3.8	19

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91	Experimental and theoretical study of charge-transfer complex hybrid polyimide membranes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 293-298.	2.4	19
92	Platinum-Decorated Nitrogen-Doped Graphene Foam Electrocatalysts. Fuel Cells, 2014, 14, 728-734.	1.5	19
93	High-pressure C-H-O diagrams: Fuel composition, carbon deposition, and open circuit voltage of pressurized SOFCs. International Journal of Hydrogen Energy, 2017, 42, 30769-30786.	3.8	19
94	Mechanism of SrZrO <sub>3</sub> Formation at GDC/YSZ Interface of SOFC Cathode. Journal of the Electrochemical Society, 2018, 165, F959-F965.	1.3	19
95	Overpotentials and reaction mechanism in electrochemical hydrogen pumps. Electrochimica Acta, 2019, 301, 274-283.	2.6	19
96	Oxidation-induced degradation and performance fluctuation of solid oxide fuel cell Ni anodes under simulated high fuel utilization conditions. International Journal of Hydrogen Energy, 2019, 44, 9386-9399.	3.8	19
97	Application of Biofuels to Solid Oxide Fuel Cell. ECS Transactions, 2011, 35, 2641-2651.	0.3	18
98	Robust SOFC anode materials with La-doped SrTiO <sub>3</sub> backbone structure. International Journal of Hydrogen Energy, 2016, 41, 17044-17052.	3.8	18
99	Redox cycling induced Ni exsolution in Gd <sub>0.1</sub> Ce <sub>0.8</sub> Ni <sub>0.1</sub> O <sub>2</sub> - (Sr <sub>0.9</sub> La <sub>0.1</sub> ) <sub>0.9</sub> Ti <sub>0.9</sub> Ni <sub>0.1</sub> O <sub>3</sub> composite solid oxide fuel cell anodes. Journal of Power Sources, 2017, 370, 122-130.	4.0	18
100	The Influence of Water Vapor and SO <sub>2</sub> on the Durability of Solid Oxide Fuel Cell. ECS Transactions, 2009, 25, 2859-2866.	0.3	17
101	Negligible Start-Stop-Cycle Degradation in a PEFC Utilizing Platinum-Decorated Tin Oxide Electrocatalyst Layers with Carbon Fiber Filler. ECS Electrochemistry Letters, 2014, 3, F15-F18.	1.9	17
102	Atomic-resolution analysis of degradation phenomena in SOFCs: A case study of SO <sub>2</sub> poisoning in LSM cathodes. International Journal of Hydrogen Energy, 2016, 41, 12214-12221.	3.8	17
103	Alternative Ni-Impregnated Mixed Ionic-Electronic Conducting Anode for SOFC Operation at High Fuel Utilization. Journal of the Electrochemical Society, 2017, 164, F3055-F3063.	1.3	17
104	Suppression of Leakage Current in Proton-Conducting BaZr <sub>0.8</sub> Y <sub>0.2</sub> O <sub>3</sub> Electrolyte by Forming Hole-Blocking Layer. Journal of the Electrochemical Society, 2020, 167, 084515.	1.3	16
105	Impact of microstructure and crystallinity on surface exchange kinetics of strontium titanium iron oxide perovskite by <i>in situ</i> optical transmission relaxation approach. Journal of Materials Chemistry A, 2017, 5, 23006-23019.	5.2	15
106	TEM and ETEM Study on SrZrO <sub>3</sub> Formation at the LSCF/GDC/YSZ Interfaces. ECS Transactions, 2017, 78, 993-1001.	0.3	15
107	Thermochemical Stability of Sulfur Compounds in Fuel Cell Gases Related to Fuel Impurity Poisoning. Journal of Fuel Cell Science and Technology, 2008, 5, .	0.8	14
108	Sulfur Poisoning of SOFCs: Dependence on Operational Parameters. ECS Transactions, 2011, 35, 1717-1725.	0.3	13



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109	Chemical Degradation of SOFCs: External Impurity Poisoning and Internal Diffusion-Related Phenomena. ECS Transactions, 2013, 57, 315-323.	0.3	13
110	A solid polymer water electrolysis system utilizing natural circulation. International Journal of Hydrogen Energy, 2014, 39, 16263-16274.	3.8	13
111	Effectiveness of paper-structured catalyst for the operation of biodiesel-fueled solid oxide fuel cell. Journal of Power Sources, 2015, 283, 320-327.	4.0	13
112	PEFC Electrocatalysts Supported on Nb-SnO <sub>2</sub> for MEAs with High Activity and Durability: Part I. Application of Different Carbon Fillers. Journal of the Electrochemical Society, 2018, 165, F1154-F1163.	1.3	13
113	Proposal of ultra-high-efficiency zero-emission power generation systems. Journal of Power Sources, 2020, 448, 227459.	4.0	13
114	Chemical Degradation and Poisoning Mechanism of Cermet Anodes in Solid Oxide Fuel Cells. ECS Transactions, 2009, 25, 2031-2038.	0.3	12
115	Impurity Poisoning of SOFCs. ECS Transactions, 2011, 35, 2805-2814.	0.3	12
116	A visualization study on relationship between water-droplet behavior and cell voltage appeared in straight, parallel and serpentine channel pattern cells. Journal of Power Sources, 2011, 196, 5377-5385.	4.0	12
117	XRD and Raman Spectroscopy Study of Fe solubility in Cerium Oxide. ECS Transactions, 2013, 50, 53-58.	0.3	12
118	Evaluation of proton conductivity of sulfonated polyimide/dihydroxy naphthalene charge-transfer complex hybrid membranes. Journal of Polymer Science Part A, 2014, 52, 2991-2997.	2.5	12
119	Effect of Sulfonation Level on Sulfonated Aromatic Poly(ether sulfone) Membranes as Polymer Electrolyte for High-Temperature Polymer Electrolyte Membrane Fuel Cells. Macromolecular Chemistry and Physics, 2016, 217, 2692-2699.	1.1	12
120	Interplay of Grain Size Dependent Electronic and Ionic Conductivity in Electrochemical Polarization Studies on Sr-Doped LaMnO <sub>3</sub> (LSM) Thin Film Cathodes. Journal of the Electrochemical Society, 2018, 165, F702-F709.	1.3	12
121	Emergence of Rapid Oxygen Surface Exchange Kinetics during in Situ Crystallization of Mixed Conducting Thin Film Oxides. ACS Applied Materials & Interfaces, 2019, 11, 9102-9116.	4.0	12
122	Start-Up Characteristics of Segmented Ni-YSZ Series Tubular SOFC Power Modules Improved by Catalytic Combustion at Cathodes. Fuel Cells, 2014, 14, 1028-1035.	1.5	11
123	Redox-stable Sr <sub>0.9</sub> La <sub>0.1</sub> TiO <sub>3</sub> -supported SOFC single cells. International Journal of Hydrogen Energy, 2017, 42, 6941-6949.	3.8	11
124	Degradation of SOFCs by Various Impurities: Impedance Spectroscopy and Microstructural Analysis. ECS Transactions, 2017, 78, 1253-1260.	0.3	11
125	Development of polymer-polymer type charge-transfer blend membranes for fuel cell application. Journal of Membrane Science, 2018, 548, 223-231.	4.1	11
126	In situ transmission electron microscopic observations of redox cycling of a Ni-ScSZ cermet fuel cell anode. Microscopy (Oxford, England), 2018, 67, 251-258.	0.7	11



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127	Ru-based SOFC anodes: Preparation, performance, and durability. International Journal of Hydrogen Energy, 2017, 42, 6950-6964.	3.8	10
128	Modifying Grain Boundary Ionic/Electronic Transport in Nano-Sr- and Mg- Doped LaGaO <sub>3-<math>\hat{r}</math></sub> by Sintering Variations. Journal of the Electrochemical Society, 2019, 166, F569-F580.	1.3	10
129	Catalyst-Integrated Gas Diffusion Electrodes for Polymer Electrolyte Membrane Water Electrolysis: Porous Titanium Sheets with Nanostructured TiO <sub>2</sub> Surfaces Decorated with Ir Electrocatalysts. Journal of the Electrochemical Society, 2020, 167, 124523.	1.3	10
130	Cooperative Investigations on Degradation of Cathode Materials in Segment-In-Series Cells by MHI. ECS Transactions, 2011, 35, 2191-2200.	0.3	9
131	Electrochemical Oxygen Reduction on Metal-Free Nitrogen-Doped Graphene Foam in Acidic Media. ECS Transactions, 2013, 58, 1529-1540.	0.3	9
132	Experimental Design for Voltage Driven Tracer Incorporation and Diffusion Studies on Oxide Thin Film Electrodes. Journal of the Electrochemical Society, 2017, 164, F809-F814.	1.3	9
133	Aliphatic $\pi$ -SPI charge-transfer complex hybrid films for high temperature polymer electrolyte membrane fuel cells. Journal of Applied Polymer Science, 2018, 135, 46087.	1.3	9
134	PEFC Electrocatalysts Supported on Nb-SnO <sub>2</sub> for MEAs with High Activity and Durability: Part II. Application of Bimetallic Pt-Alloy Catalysts. Journal of the Electrochemical Society, 2018, 165, F1164-F1175.	1.3	9
135	Development of a Heat-Treated Polymer-Polymer Type Charge-Transfer Blend Membrane for Application in Polymer Electrolyte Fuel Cells. ACS Applied Energy Materials, 2019, 2, 8715-8723.	2.5	9
136	Modelling of CH <sub>4</sub> multiple-reforming within the Ni-YSZ anode of a solid oxide fuel cell. Journal of Power Sources, 2017, 359, 507-519.	4.0	9
137	Exchange current density of reversible solid oxide cell electrodes. International Journal of Hydrogen Energy, 2022, 47, 16626-16639.	3.8	9
138	Carbon-free Pt Electrocatalysts Supported on Doped SnO <sub>2</sub> for Polymer Electrolyte Fuel Cells. ECS Transactions, 2009, 25, 831-837.	0.3	8
139	XRD and Raman Spectroscopy Study of Mn Solubility in Cerium Oxide. ECS Transactions, 2013, 57, 1607-1612.	0.3	8
140	Relating Microstructure to Surface Exchange Kinetics Using <i>in Situ</i> Optical Absorption Relaxation. ECS Transactions, 2017, 75, 23-31.	0.3	8
141	Effect of Water Vapor and SO <sub>x</sub> in Air on the Cathodes of Solid Oxide Fuel Cells. Materials Research Society Symposia Proceedings, 2007, 1041, 1.	0.1	7
142	Compensation for Oxygen Exchange Rate Limiting Impurities on a Pr <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>2-d</sub> SOFC Electrode Material. ECS Transactions, 2013, 57, 2003-2007.	0.3	7
143	In Operando Visualization of SOFC Electrodes by Thermography and Visible Light Imaging. ECS Electrochemistry Letters, 2015, 4, F61-F64.	1.9	7
144	Oxidation-Induced Degradation of SOFC Ni Anodes at High Fuel Utilizations. ECS Transactions, 2015, 68, 1345-1352.	0.3	7

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145	Tailoring Nonstoichiometry and Mixed Ionic Electronic Conductivity in $\text{Pr}_{0.1}\text{Ce}_{0.9}\text{O}_{2-\delta}/\text{SrTiO}_3$ Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 34841-34853.	4.0	7
146	Synthesis of flowerlike ceria-zirconia solid solution for promoting dry reforming of methane. International Journal of Hydrogen Energy, 2022, 47, 42171-42184.	3.8	7
147	PEFC-type impurity sensors for hydrogen fuels. International Journal of Hydrogen Energy, 2012, 37, 16256-16263.	3.8	6
148	Development of MEAs with Pt/Mesoporous Carbon as a Cathode Catalyst. ECS Transactions, 2014, 64, 137-144.	0.3	6
149	Microstructural Characterization of $\text{SrZrO}_3$ Formation and the Influence to SOFC Performance. ECS Transactions, 2015, 68, 2463-2470.	0.3	6
150	Hydrogen pump-type impurity sensors for hydrogen fuels. International Journal of Hydrogen Energy, 2017, 42, 3281-3293.	3.8	6
151	Characterization of yttrium-doped ceria with various yttrium concentrations as cathode interlayers of SOFCs. Ionics, 2017, 23, 95-103.	1.2	6
152	Metal-Oxide-Supported Ir-Decorated Electrocatalysts for Polymer Electrolyte Membrane Water Electrolysis. ECS Transactions, 2018, 86, 673-682.	0.3	6
153	Modified Energy Efficiencies of Proton-conducting SOFCs with Partial Conductions of Oxide Ions and Holes. Fuel Cells, 2019, 19, 503-511.	1.5	6
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