Kazunari Sasaki

List of Publications by Year in Descending Order

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	Accelerated Durability Testing of Fuel Cell Stacks for Commercial Automotive Applications: A Case Study. *Journal of the Electrochemical Society*, **2022**, 169, 044523	3.9	3
243	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	8.9	3
242	Silicone-containing polymer blend electrolyte membranes for fuel cell applications. *Journal of Applied Polymer Science*, **2021**, 138, 50328	2.9	1
241	Strain-modified ionic conductivity in rare-earth substituted ceria: effects of migration direction, barriers, and defect-interactions. *Journal of Materials Chemistry A*, **2021**, 9, 8630-8643	13	1
240	Spray deposition of sulfonated cellulose nanofibers as electrolyte membranes in fuel cells. *Cellulose*, **2021**, 28, 1355-1367	5.5	5
239	In Situ TEM Investigation of Structural Changes in Ni Nanoparticle Catalysts under Gas Atmospheres: Implications for Catalyst Degradation. *ACS Applied Nano Materials*, **2021**, 4, 2175-2182	5.6	1
238	Synthesis of flowerlike ceria□irconia solid solution for promoting dry reforming of methane. *International Journal of Hydrogen Energy*, **2021**,	6.7	1
237	Suppression of Leakage Current in Proton-Conducting BaZr0.8Y0.2O3□Electrolyte by Forming Hole-Blocking Layer. *Journal of the Electrochemical Society*, **2020**, 167, 084515	3.9	5
236	Development of Porous Pt Electrocatalysts for Oxygen Reduction and Evolution Reactions. *Molecules*, **2020**, 25,	4.8	2
235	Gram-scale synthesis of alkoxide-derived nitrogen-doped carbon foam as a support for Fe-N-C electrocatalysts. *Nanotechnology*, **2020**, 31, 225401	3.4	1
234	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	6.7	19
233	Simulation and Visualization of Internal Heat and Mass Flow Distribution of SOFCs. *ECS Meeting Abstracts*, **2020**, MA2020-02, 2513-2513	0	
232	Improved Redox Cycling Durability in Alternative Ni Alloy-Based SOFC Anodes. *Journal of the Electrochemical Society*, **2020**, 167, 124517	3.9	1
231	Catalyst-Integrated Gas Diffusion Electrodes for Polymer Electrolyte Membrane Water Electrolysis: Porous Titanium Sheets with Nanostructured TiO2 Surfaces Decorated with Ir Electrocatalysts. *Journal of the Electrochemical Society*, **2020**, 167, 124523	3.9	4
230	Surface-Modified Titanium Fibers as Durable Carbon-Free Platinum Catalyst Supports for Polymer Electrolyte Fuel Cells. *Journal of the Electrochemical Society*, **2020**, 167, 104513	3.9	1
229	Investigation of Reducing Concentration Overvoltage toward Development of Low Pt-Loading PEFC. *Journal of the Electrochemical Society*, **2020**, 167, 124510	3.9	0
228	Semiconductive □Al2O3/Sr3Al2O6 Oxide Layer Formed on Fe□Cr□Al Alloy. *Journal of the Electrochemical Society*, **2020**, 167, 124505	3.9	

227	Proposal of ultra-high-efficiency zero-emission power generation systems. *Journal of Power Sources* , **2020**, 448, 227459	8.9	8
226	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	9.5	7
225	Overpotentials and reaction mechanism in electrochemical hydrogen pumps. *Electrochimica Acta*, **2019**, 301, 274-283	6.7	10
224	Achievements of NEDO Durability Projects on SOFC Stacks in the Light of Physicochemical Mechanisms. *Fuel Cells*, **2019**, 19, 311	2.9	5
223	Modifying Grain Boundary Ionic/Electronic Transport in Nano-Sr- and Mg- Doped LaGaO3-δ by Sintering Variations. *Journal of the Electrochemical Society*, **2019**, 166, F569-F580	3.9	6
222	Modified Energy Efficiencies of Proton-conducting SOFCs with Partial Conductions of Oxide-ions and Holes. *Fuel Cells*, **2019**, 19, 503-511	2.9	3
221	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	6.7	6
220	SOFC anodes impregnated with noble metal catalyst nanoparticles for high fuel utilization. *International Journal of Hydrogen Energy*, **2019**, 44, 8502-8518	6.7	33
219	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	6.7	15
218	Tailoring Nonstoichiometry and Mixed Ionic Electronic Conductivity in PrCeO/SrTiO Heterostructures. *ACS Applied Materials & Interfaces*, **2019**, 11, 34841-34853	9.5	4
217	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	6.1	4
216	GDL-Integrated Electrodes with Ir-Based Electrocatalysts for Polymer Electrolyte Membrane Water Electrolysis. *ECS Transactions*, **2019**, 92, 833-843	1	2
215	Fuel Cells (SOFC): Alternative Approaches (Electrolytes, Electrodes, Fuels) **2019**, 591-632		
214	MPL/GDL-Supported Pt Electrocatalysts for PEFCs. *ECS Transactions*, **2019**, 92, 507-513	1	1
213	The interplay and impact of strain and defect association on the conductivity of rare-earth substituted ceria. *Acta Materialia*, **2019**, 166, 447-458	8.4	25
212	Characterization of polymer-polymer type charge-transfer (CT) blend membranes for fuel cell application. *Data in Brief*, **2018**, 18, 22-29	1.2	1
211	Ni-loaded (Ce,Zr)O2–dispersed paper-structured catalyst for dry reforming of methane. *International Journal of Hydrogen Energy*, **2018**, 43, 4951-4960	6.7	23
210	Durability of LSCF-Coated Fe-Cr-Al Alloy for SOFC Applications. *Journal of the Electrochemical Society*, **2018**, 165, F181-F188	3.9	2

209	Durability of template-free Fe-N-C foams for electrochemical oxygen reduction in alkaline solution. *Journal of Power Sources*, **2018**, 375, 244-254	8.9	19
208	Interplay of Grain Size Dependent Electronic and Ionic Conductivity in Electrochemical Polarization Studies on Sr-Doped LaMnO3(LSM) Thin Film Cathodes. *Journal of the Electrochemical Society*, **2018**, 165, F702-F709	3.9	5
207	Aliphatic SPI charge-transfer complex hybrid films for high temperature polymer electrolyte membrane fuel cells. *Journal of Applied Polymer Science*, **2018**, 135, 46087	2.9	6
206	Development of polymer-polymer type charge-transfer blend membranes for fuel cell application. *Journal of Membrane Science*, **2018**, 548, 223-231	9.6	9
205	Development and Evaluation of Ir Based Anode Electrocatalysts for Water Electrolysis. *ECS Transactions*, **2018**, 86, 719-726	1	2
204	PEFC Electrocatalysts Supported on Nb-SnO2for MEAs with High Activity and Durability: Part I. Application of Different Carbon Fillers. *Journal of the Electrochemical Society*, **2018**, 165, F1154-F1163	3.9	9
203	Metal-Oxide-Supported Ir-Decorated Electrocatalysts for Polymer Electrolyte Membrane Water Electrolysis. *ECS Transactions*, **2018**, 86, 673-682	1	3
202	PEFC Electrocatalysts Supported on Nb-SnO2for MEAs with High Activity and Durability: Part II. Application of Bimetallic Pt-Alloy Catalysts. *Journal of the Electrochemical Society*, **2018**, 165, F1164-F1175	3.9	6
201	Pt-Decorated Oxide/MPL/GDL-Supported PEFCs. *ECS Transactions*, **2018**, 86, 461-468	1	2
200	Carbon-Free All-in-One Electrode Using Porous Ti Sheet for PEFCs. *ECS Transactions*, **2018**, 86, 541-547	1	3
199	FIB-SEM 3-Dimensional Nanostructure Observation of PEFC Electrocatalyst Layers. *ECS Transactions*, **2018**, 86, 69-75	1	1
198	In situ transmission electron microscopic observations of redox cycling of a Ni-ScSZ cermet fuel cell anode. *Microscopy (Oxford, England)*, **2018**, 67, 251-258	1.3	5
197	Mechanism of SrZrO3Formation at GDC/YSZ Interface of SOFC Cathode. *Journal of the Electrochemical Society*, **2018**, 165, F959-F965	3.9	10
196	Ru-based SOFC anodes: Preparation, performance, and durability. *International Journal of Hydrogen Energy*, **2017**, 42, 6950-6964	6.7	9
195	Modification of Surface Oxide Layer of Fe-Cr-Al Alloy with Coating Materials for SOFC Applications. *Fuel Cells*, **2017**, 17, 83-89	2.9	5
194	Hydrogen pump-type impurity sensors for hydrogen fuels. *International Journal of Hydrogen Energy*, **2017**, 42, 3281-3293	6.7	4
193	Experimental Design for Voltage Driven Tracer Incorporation and Diffusion Studies on Oxide Thin Film Electrodes. *Journal of the Electrochemical Society*, **2017**, 164, F809-F814	3.9	7
192	Recent Achievements of NEDO Durability Project with an Emphasis on Correlation Between Cathode Overpotential and Ohmic Loss. *Fuel Cells*, **2017**, 17, 473-497	2.9	28

191	Physicochemical properties of Ba(Zr,Ce)O3-δbased 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	6.7	23
190	Redox-stable Sr0.9La0.1TiO3-supported SOFC single cells. *International Journal of Hydrogen Energy*, **2017**, 42, 6941-6949	6.7	10
189	Carbon Foam Decorated with Silver Nanoparticles for Electrochemical CO2 Conversion. *Energy Technology*, **2017**, 5, 861-863	3.5	33
188	Public perception on hydrogen infrastructure in Japan: Influence of rollout of commercial fuel cell vehicles. *International Journal of Hydrogen Energy*, **2017**, 42, 7290-7296	6.7	78
187	Impact of microstructure and crystallinity on surface exchange kinetics of strontium titanium iron oxide perovskite by in situ optical transmission relaxation approach. *Journal of Materials Chemistry A*, **2017**, 5, 23006-23019	13	13
186	Alternative Ni-Impregnated Mixed Ionic-Electronic Conducting Anode for SOFC Operation at High Fuel Utilization. *Journal of the Electrochemical Society*, **2017**, 164, F3055-F3063	3.9	10
185	Redox cycling induced Ni exsolution in Gd0.1Ce0.8Ni0.1O2 - (Sr0.9La0.1)0.9Ti0.9Ni0.1O3 composite solid oxide fuel cell anodes. *Journal of Power Sources*, **2017**, 370, 122-130	8.9	15
184	The Impact of Fuels on Solid Oxide Fuel Cell Anode Lifetime **2017**, 37-50		
183	Relationship between Electrochemical Properties and Electrolyte Partial Conductivities of Proton-Conducting Ceramic Fuel Cells. *ECS Transactions*, **2017**, 78, 441-450	1	2
182	New Applications of SOFC-MGT Hybrid Power Generation System for Low-Carbon Society. *ECS Transactions*, **2017**, 78, 197-208	1	4
181	Development of Flexible Catalyst Material for Internal Dry Reforming. *ECS Transactions*, **2017**, 78, 2431-2439	1	3
180	Effect of Carbon-Neutral Fuel Fed Solid Oxide Fuel Cell System on CO2Emission Reduction. *ECS Transactions*, **2017**, 78, 2563-2568	1	
179	Degradation of SOFCs by Various Impurities: Impedance Spectroscopy and Microstructural Analysis. *ECS Transactions*, **2017**, 78, 1253-1260	1	6
178	TEM and ETEM Study on SrZrO3Formation at the LSCF/GDC/YSZ Interfaces. *ECS Transactions*, **2017**, 78, 993-1001	1	11
177	Alternative SOFC Anode Materials with Ion□and Electron□Conducting Backbones for Higher Fuel Utilization. *ECS Transactions*, **2017**, 78, 1179-1187	1	2
176	Correlating Cathode Microstructure with PEFC Performance Using FIB-SEM and TEM. *Journal of the Electrochemical Society*, **2017**, 164, F928-F934	3.9	16
175	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	6.7	12
174	Electrochemical Characterization of MEAs with Different Pt-Loading for the Efficient Use of Pt. *ECS Transactions*, **2017**, 80, 789-799	1	2

173	Ti-Porous-Sheet-Supported Pt Electrocatalysts for PEFCs. *ECS Transactions*, **2017**, 80, 781-787	1	2
172	Development of PEFC Alloy Electrocatalysts Supported on SnO2. *ECS Transactions*, **2017**, 80, 907-918	1	
171	Spray-painted graphene oxide membrane fuel cells. *Journal of Membrane Science*, **2017**, 541, 347-357	9.6	38
170	Characterization of yttrium-doped ceria with various yttrium concentrations as cathode interlayers of SOFCs. *Ionics*, **2017**, 23, 95-103	2.7	5
169	Relating Microstructure to Surface Exchange Kinetics Usingin SituOptical Absorption Relaxation. *ECS Transactions*, **2017**, 75, 23-31	1	4
168	Advanced Direct Internal Reforming Concepts for Solid Oxide Fuel Cells Running with Biogas. *ECS Transactions*, **2017**, 78, 2467-2476	1	5
167	PM-13In Situ TEM Study on Redox Cycling of Ni-ScSZ Anode in Solid Oxide Fuel Cells. *Microscopy (Oxford, England)*, **2017**, 66, i24-i24	1.3	
166	Modelling of CH4 multiple-reforming within the Ni-YSZ anode of a solid oxide fuel cell. *Journal of Power Sources*, **2017**, 359, 507-519	8.9	6
165	Metal-Free Nitrogen-Doped Carbon Foam Electrocatalysts for the Oxygen Reduction Reaction in Acid Solution. *Journal of the Electrochemical Society*, **2016**, 163, F1049-F1054	3.9	19
164	Atomic-resolution analysis of degradation phenomena in SOFCS: A case study of SO2 poisoning in LSM cathodes. *International Journal of Hydrogen Energy*, **2016**, 41, 12214-12221	6.7	12
163	Spray deposition of Nafion membranes: Electrode-supported fuel cells. *Journal of Power Sources*, **2016**, 327, 319-326	8.9	16
162	Symbolic Analysis of Multi-Stage Electrochemical Oxidation for Enhancement of Electric Efficiency of SOFCs. *Ceramic Transactions*, **2016**, 41-46	0.1	
161	Preparation of Iridium-SnO2/VGCF Electrocatalysts for Water Electrolysis. *ECS Transactions*, **2016**, 75, 1129-1135	1	1
160	Investigation of Degradation at the PEFC Cathode Layer under Higher Temperature Operation. *ECS Transactions*, **2016**, 75, 329-337	1	
159	An FIB-SEM Study on Correlations between PEFC Electrocatalyst Microstructure and Cell Performance. *ECS Transactions*, **2016**, 75, 347-354	1	4
158	Characterization of an electrochemical hydrogen pump with internal humidifier and dead-end anode channel. *International Journal of Hydrogen Energy*, **2016**, 41, 13879-13887	6.7	17
157	High Temperature Proton Conduction in Nanocellulose Membranes: Paper Fuel Cells. *Chemistry of Materials*, **2016**, 28, 4805-4814	9.6	95
156	Anode gas recirculation for improving the performance and cost of a 5-kW solid oxide fuel cell system. *Journal of Power Sources*, **2016**, 325, 229-237	8.9	25

155	Alkaline anion exchange membranes based on KOH-treated multilayer graphene oxide. *Journal of Membrane Science*, **2016**, 508, 51-61	9.6	53
154	Polymer Electrolyte Fuel Cells (PEFCs). *Green Energy and Technology*, **2016**, 301-311	0.6	3
153	Kyushu University Hydrogen Project. *The Proceedings of Mechanical Engineering Congress Japan*, **2016**, 2016, J2220401	0	
152	Multi-Stage Stack Design for Highly Efficient SOFC System. *The Proceedings of Mechanical Engineering Congress Japan*, **2016**, 2016, J2220403	0	
151	Current Status: General. *Green Energy and Technology*, **2016**, 15-35	0.6	
150	Development of Charge-Transfer Complex Hybrid Films as Polymer Electrolyte Membrane for High Temperature PEFC Operation. *Macromolecular Chemistry and Physics*, **2016**, 217, 654-663	2.6	5
149	Nitrogen-Doped Carbon Foam as a Highly Durable Metal-Free Electrocatalyst for the Oxygen Reduction Reaction in Alkaline Solution. *Electrochimica Acta*, **2016**, 220, 554-561	6.7	25
148	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	2.6	11
147	PEFC Alloy Electrocatalysts Supported on SnO2: A Study on the Preparation Method. *ECS Transactions*, **2016**, 75, 851-858	1	2
146	SnO2-Supported Electrocatalysts on Conductive Fillers for PEFCs. *ECS Transactions*, **2016**, 75, 841-849	1	
145	Effects of operating conditions on performance of high-temperature polymer electrolyte water electrolyzer. *Journal of Power Sources*, **2016**, 318, 192-199	8.9	22
144	Highly redox-resistant solid oxide fuel cell anode materials based on La-doped SrTiO3 by catalyst impregnation strategy. *Journal of Power Sources*, **2016**, 320, 180-187	8.9	19
143	Deposition, Agglomeration and Vaporization of Chromium Oxide by Cathode Polarization Change in SOFC Cathodes. *Journal of the Electrochemical Society*, **2016**, 163, F596-F602	3.9	3
142	Tunable Mixed Ionic/Electronic Conductivity and Permittivity of Graphene Oxide Paper for Electrochemical Energy Conversion. *ACS Applied Materials & Interfaces*, **2016**, 8, 11466-75	9.5	34
141	Solid Oxide Fuel Cells (SOFCs). *Green Energy and Technology*, **2016**, 313-324	0.6	
140	Physicochemical properties of proton-conductive Ba(Zr0.1Ce0.7Y0.1Yb0.1)O3−δ solid electrolyte in terms of electrochemical performance of solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2016**, 41, 17539-17547	6.7	23
139	Robust SOFC anode materials with La-doped SrTiO3 backbone structure. *International Journal of Hydrogen Energy*, **2016**, 41, 17044-17052	6.7	13
138	Hydrotalcite-dispersed paper-structured catalyst for the dry reforming of methane. *International Journal of Hydrogen Energy*, **2015**, 40, 10807-10815	6.7	22

137	In-Situ ESEM and EELS Observation of Water Uptake and Ice Formation in Multilayer Graphene Oxide. *Scientific Reports*, **2015**, 5, 11807	4.9	21
136	Effectiveness of paper-structured catalyst for the operation of biodiesel-fueled solid oxide fuel cell. *Journal of Power Sources*, **2015**, 283, 320-327	8.9	11
135	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	3.9	15
134	Improving the Si Impurity Tolerance of Pr0.1Ce0.9O2−δ SOFC Electrodes with Reactive Surface Additives. *Chemistry of Materials*, **2015**, 27, 3065-3070	9.6	30
133	Influence of Cathode Polarization Change on Chromium Deposited on Electrolyte Surface Near Cathode Reaction Sites of SOFC. *ECS Transactions*, **2015**, 68, 1031-1037	1	
132	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	3.3	13
131	Decrease in electrical resistance of surface oxide of iron–chromium–aluminium alloy by La0.6Sr0.4Co0.2Fe0.8O3 coating and heat treatment for the application of metal-supported solid oxide fuel cells. *Journal of Power Sources*, **2015**, 297, 181-187	8.9	4
130	A Parametric Study of SOFC Performances with Multi-Stage Electrochemical Oxidation for Enhancement of Electric Efficiency. *ECS Transactions*, **2015**, 68, 1961-1968	1	2
129	In Operando Visualization of SOFC Electrodes by Thermography and Visible Light Imaging. *ECS Electrochemistry Letters*, **2015**, 4, F61-F64		6
128	Oxidation-Induced Degradation of SOFC Ni Anodes at High Fuel Utilizations. *ECS Transactions*, **2015**, 68, 1345-1352	1	6
127	Development of Robust SOFC Anode Materials Using La-Doped SrTiO3. *ECS Transactions*, **2015**, 68, 1447-1453	1	3
126	Durability Assessment of SOFC Stacks with Several Types of Structures for Thermal Cycles during Their Lifetimes on Residential Use. *ECS Transactions*, **2015**, 68, 2209-2216	1	3
125	Solvothermal synthesis of superhydrophobic hollow carbon nanoparticles from a fluorinated alcohol. *Nanoscale*, **2015**, 7, 16087-93	7.7	28
124	Vertically aligned nanocomposite La0.8Sr0.2CoO3/(La0.5Sr0.5)2CoO4 cathodes – electronic structure, surface chemistry and oxygen reduction kinetics. *Journal of Materials Chemistry A*, **2015**, 3, 207-219	13	60
123	Lattice Strain Mapping of Platinum Nanoparticles on Carbon and SnO2 Supports. *Scientific Reports*, **2015**, 5, 13126	4.9	56
122	Immobilization of an Enzyme Into Nano-Space of Nanostructured Carbon and Evaluation as Electrochemical Sensors. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 7395-401	1.3	2
121	A FIB-SEM Study on Correlations between PEFC Electrocatalyst Microstructure and Cell Performance. *ECS Transactions*, **2015**, 69, 709-714	1	1
120	Microstructural Characterization of SrZrO3 Formation and the Influence to SOFC Performance. *ECS Transactions*, **2015**, 68, 2463-2470	1	6

119	(Invited) Enhancement of Surface Oxygen Exchange Kinetics for Pr0.1Ce0.9O2-□with Deposition of La or Sm Oxide. *ECS Transactions*, **2015**, 66, 157-160	1	2
118	Pt-decorated TiO2 Electrocatalysts for PEFCs. *ECS Transactions*, **2015**, 69, 603-609	1	2
117	Effect of proton-conduction in electrolyte on electric efficiency of multi-stage solid oxide fuel cells. *Scientific Reports*, **2015**, 5, 12640	4.9	49
116	Influence of cathode polarization on the chromium deposition near the cathode/electrolyte interface of SOFC. *International Journal of Hydrogen Energy*, **2014**, 39, 1463-1475	6.7	18
115	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
114	Development of MEAs with Pt/Mesoporous Carbon as a Cathode Catalyst. *ECS Transactions*, **2014**, 64, 137-144	1	4
113	Platinum-Decorated Nitrogen-Doped Graphene Foam Electrocatalysts. *Fuel Cells*, **2014**, 14, 728-734	2.9	19
112	Characterization of a graphene oxide membrane fuel cell. *Journal of Power Sources*, **2014**, 272, 239-247	8.9	71
111	A solid polymer water electrolysis system utilizing natural circulation. *International Journal of Hydrogen Energy*, **2014**, 39, 16263-16274	6.7	9
110	Cycle durability of metal oxide supports for PEFC electrocatalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 5074-5082	6.7	51
109	Comparison of chromium poisoning among solid oxide fuel cell cathode materials. *Solid State Ionics*, **2014**, 262, 421-427	3.3	22
108	Hydrogen adsorption on graphene foam synthesized by combustion of sodium ethoxide. *International Journal of Hydrogen Energy*, **2014**, 39, 376-380	6.7	31
107	Electronic and ionic conductivity of Eu0.2Ce0.8O2□*Solid State Ionics*, **2014**, 263, 75-79	3.3	3
106	Analysis of water behavior in PEFC through 3D thermal and temperature distribution measurement by ultrafine thermocouples. *Transactions of the JSME (in Japanese)*, **2014**, 80, TEP0364-TEP0364	0.2	3
105	Start-Up Characteristics of Segmented-In-Series Tubular SOFC Power Modules Improved by Catalytic Combustion at Cathodes. *Fuel Cells*, **2014**, 14, 1028-1035	2.9	8
104	Oxygen Exchange Kineics of Thin Ftilms Studied by Optical Transmission Relaxation: Correlation with Surface Composition and Microstructure. *Microscopy and Microanalysis*, **2014**, 20, 1906-1907	0.5	
103	Investigation of Performance and Durability of MEAs at Higher Temperature. *ECS Transactions*, **2014**, 64, 755-762	1	4
102	Defective Nitrogen-Doped Graphene Foam: A Non-Precious Electrocatalyst for the Oxygen Reduction Reaction in Alkaline Medium. *ECS Transactions*, **2014**, 64, 1161-1172	1	2

101	Defective Nitrogen-Doped Graphene Foam: Clarifying the Role of Nitrogen in Non-Precious ORR Catalysts. *ECS Transactions*, **2014**, 64, 271-280	1	1
100	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		16
99	Platinum-Decorated Tin Oxide and Niobium-Doped Tin Oxide PEFC Electrocatalysts: Oxygen Reduction Reaction Activity. *Journal of the Electrochemical Society*, **2014**, 161, F1208-F1213	3.9	34
98	Experimental and theoretical study of charge-transfer complex hybrid polyimide membranes. *Journal of Polymer Science, Part B: Polymer Physics*, **2014**, 52, 293-298	2.6	10
97	Pt/SnO2 Electrocatalysts on Conductive Fillers. *ECS Transactions*, **2014**, 64, 215-220	1	2
96	SOFC Durability against Standby and Shutdown Cycling. *Journal of the Electrochemical Society*, **2014** , 161, F850-F860	3.9	48
95	Defective Graphene Foam: A Platinum Catalyst Support for PEMFCs. *Journal of the Electrochemical Society*, **2014**, 161, F838-F844	3.9	37
94	Evaluation of MEAs Prepared by Pt/C Electrocatalysts with Improved Durability through the Heat Treatment. *ECS Transactions*, **2014**, 58, 7-13	1	2
93	Graphene Oxide Membrane Fuel Cells: Utilizing of a New Class of Ionic Conductor. *ECS Transactions*, **2014**, 64, 441-448	1	3
92	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	3.9	40
91	Numerical analysis on multi-component flow in SOFC stack for highly efficient operation. *The Proceedings of the Computational Mechanics Conference*, **2014**, 2014.27, 106-107	0	
90	Feasibility of palm-biodiesel fuel for a direct internal reforming solid oxide fuel cell. *International Journal of Energy Research*, **2013**, 37, 609-616	4.5	19
89	Study on paper-structured catalyst for direct internal reforming SOFC fueled by the mixture of CH4 and CO2. *International Journal of Hydrogen Energy*, **2013**, 38, 10542-10551	6.7	28
88	Development of Direct Internal Reforming SOFC Integrated with Paper-Structured Catalyst Fuelled by Biofuels. *ECS Transactions*, **2013**, 57, 2997-3004	1	
87	Study on Fuel Composition for the Performance Enhancement of Solid Oxide Fuel Cell Operated with Biodiesel Fuel. *ECS Transactions*, **2013**, 57, 3005-3011	1	0
86	Chemical Degradation of SOFCs: External Impurity Poisoning and Internal Diffusion-Related Phenomena. *ECS Transactions*, **2013**, 57, 315-323	1	12
85	Multimodal Assessment of Durability and Reliabilityof Flattened Tubular SIS Stacks. *ECS Transactions*, **2013**, 57, 325-333	1	2
84	Durability of SOFC Against Thermal and Redox Cycling. *ECS Transactions*, **2013**, 57, 691-697	1	3

83	Influence of Donor Doping on Cathode Performance: (La,Sr)(Ti,Fe)O3-Case Study. *ECS Transactions*, **2013**, 57, 1719-1723	1	4
82	Compensation for Oxygen Exchange Rate Limiting Impurities on a Pr0.1Ce0.9O2-d SOFC Electrode Material. *ECS Transactions*, **2013**, 57, 2003-2007	1	4
81	Effect of Ceria Addition in SOFC Anodes on Sulfur Poisoning. *ECS Transactions*, **2013**, 57, 1395-1400	1	2
80	XRD and Raman Spectroscopy Study of Mn Solubility in Cerium Oxide. *ECS Transactions*, **2013**, 57, 1607-1612	1	7
79	Development of a Porous Metal Substrate for Metal Supported SOFCs Using a Fe-Cr-Al Stainless Steel. *ECS Transactions*, **2013**, 57, 2289-2293	1	3
78	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	6.7	56
77	Performance enhancement of biodiesel fueled SOFC using paper-structured catalyst. *International Journal of Hydrogen Energy*, **2013**, 38, 9856-9866	6.7	16
76	Paper-structured catalyst for the steam reforming of biodiesel fuel. *International Journal of Hydrogen Energy*, **2013**, 38, 11278-11287	6.7	23
75	Fuel Cells (SOFC): Alternative Approaches (Electroytes, Electrodes, Fuels) **2013**, 121-177		2
74	Remarkably Durable High Temperature Polymer Electrolyte Fuel Cell Based on Poly(vinylphosphonic acid)-doped Polybenzimidazole. *Scientific Reports*, **2013**, 3,	4.9	90
73	Pt-Decorated Graphene-like Foam for Electrochemical Oxygen Reduction with High Mass Activity. *ECS Transactions*, **2013**, 58, 1751-1762	1	5
72	Pulse Laser Deposition and Sputtering of Carbon-Free Pt/SnO2 Electrocatalysts for PEFC. *ECS Transactions*, **2013**, 58, 1293-1299	1	2
71	Electrochemical Oxygen Reduction on Metal-Free Nitrogen-Doped Graphene Foam in Acidic Media. *ECS Transactions*, **2013**, 58, 1529-1540	1	9
70	Electrochemical Characterization of Hydrogen Pump with Internal Humidifier and Dead-End Anode Channel. *ECS Transactions*, **2013**, 58, 681-691	1	1
69	Characterization of MEAs Fabricated by a Carbon Support with the Nano-Channel Structure. *ECS Transactions*, **2013**, 58, 1105-1111	1	3
68	Influence of Cathode Polarization on the Chromium Poisoning of SOFC Cathodes Consisting of LSM, LSCF and LNF. *ECS Transactions*, **2013**, 50, 21-25	1	4
67	XRD and Raman Spectroscopy Study of Fe solubility in Cerium Oxide. *ECS Transactions*, **2013**, 50, 53-58	1	12
66	Development of a polyaniline nanofiber-based carbon monoxide sensor for hydrogen fuel cell application. *International Journal of Hydrogen Energy*, **2012**, 37, 13529-13535	6.7	28

65	PEFC-type impurity sensors for hydrogen fuels. *International Journal of Hydrogen Energy*, **2012**, 37, 16256-16263	6.7	3
64	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	3.3	31
63	Sulfur Poisoning of SOFCs: Voltage Oscillation and Ni Oxidation. *Journal of the Electrochemical Society*, **2012**, 159, F693-F701	3.9	31
62	2.??????????????????. *Electrochemistry*, **2012**, 80, 150-154	1.2	
61	A Future Carbon-free Fuel. *Journal of the Japan Society for Precision Engineering*, **2012**, 78, 27-30	0.1	
60	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		54
59	Carbon-Free Pt Electrocatalysts Supported on SnO2 for Polymer Electrolyte Fuel Cells: Electrocatalytic Activity and Durability. *Journal of the Electrochemical Society*, **2011**, 158, B1270	3.9	100
58	Highly Efficient Biomass Utilization with Solid Oxide Fuel Cell Technology **2011**,		2
57	Chemical durability of Solid Oxide Fuel Cells: Influence of impurities on long-term performance. *Journal of Power Sources*, **2011**, 196, 9130-9140	8.9	139
56	Impurity Poisoning of SOFCs. *ECS Transactions*, **2011**, 35, 2805-2814	1	9
55	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	8.9	79
54	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	8.9	6
53	Cooperative Investigations on Degradation of Cathode Materials in Segment-In-Series Cells by MHI. *ECS Transactions*, **2011**, 35, 2191-2200	1	9
52	Sulfur Poisoning of SOFCs:Dependence on Operational Parameters. *ECS Transactions*, **2011**, 35, 1717-1725	1	12
51	Application of Biofuels to Solid Oxide Fuel Cell. *ECS Transactions*, **2011**, 35, 2641-2651	1	11
50	Exchange Current Density of Solid Oxide Fuel Cell Electrodes. *ECS Transactions*, **2011**, 35, 1007-1014	1	29
49	Electrochemical Performance of Polymer Electrolyte Fuel Cells Using Carbon-Free SnO2-Supported Pt Electrocatalysts. *ECS Transactions*, **2011**, 41, 2325-2331	1	2
48	Influence of SO2 on the Long-Term Durability of SOFC Cathodes. *ECS Transactions*, **2011**, 35, 2255-2260	1	21

47	A Cross-Sectional Observation of Water Behavior in the Flow Channel in PEFC. *ECS Transactions*, **2010**, 33, 1457-1463	1	3
46	Phosphorus Poisoning of Ni-Cermet Anodes in Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2010**, 157, B1693	3.9	18
45	Alternative Electrocatalyst Support Materials for Polymer Electrolyte Fuel Cells. *ECS Transactions*, **2010**, 33, 473-482	1	50
44	Degradation of Solid Oxide Fuel Cell Cathodes Accelerated at a High Water Vapor Concentration. *Journal of Fuel Cell Science and Technology*, **2010**, 7,		25
43	Internal reforming SOFC running on biogas. *International Journal of Hydrogen Energy*, **2010**, 35, 7905-7912	2.7	154
42	J0802-3-1 Development of solid oxide fuel cell running on biogas. *The Proceedings of the JSME Annual Meeting*, **2010**, 2010.7, 219-220		
41	In Situ Measurement of Temperature Distribution across a Proton Exchange Membrane Fuel Cell. *Electrochemical and Solid-State Letters*, **2009**, 12, B126		19
40	Carbon-free Pt Electrocatalysts Supported on Doped SnO2 for Polymer Electolyte Fuel Cells. *ECS Transactions*, **2009**, 25, 831-837	1	8
39	The Influence of Water Vapor and SO2 on the Durability of Solid Oxide Fuel Cell. *ECS Transactions*, **2009**, 25, 2859-2866	1	16
38	Carbon-Free Pt Electrocatalysts Supported on SnO[sub 2] for Polymer Electrolyte Fuel Cells. *Electrochemical and Solid-State Letters*, **2009**, 12, B119		97
37	Generation of Electricity from Bio-wastes Using Solid Oxide Fuel Cell. *ECS Transactions*, **2009**, 25, 1051-1060	1	3
36	Chemical Degradation and Poisoning Mechanism of Cermet Anodes in Solid Oxide Fuel Cells. *ECS Transactions*, **2009**, 25, 2031-2038	1	10
35	Performance and Long-term Durability of Nanostructured Ni Anodes Doped with Transition Metals prepared by Spray Mist Dryer. *ECS Transactions*, **2009**, 25, 2039-2048	1	2
34	Temperature Measurement in Through-plane Direction in PEFC with a Fabricated In-line Thermocouple and Supporter. *ECS Transactions*, **2009**, 25, 495-503	1	4
33	??????????????????????????. *Journal of Japan Institute of Electronics Packaging*, **2009**, 12, 505-510	0.1	
32	Chlorine Poisoning of SOFC Ni-Cermet Anodes. *Journal of the Electrochemical Society*, **2008**, 155, B1233	3.9	40
31	Thermochemical Stability of Sulfur Compounds in Fuel Cell Gases Related to Fuel Impurity Poisoning. *Journal of Fuel Cell Science and Technology*, **2008**, 5,		12
30	Estimation of flooding in PEMFC gas diffusion layer by differential pressure measurement. *Journal of Power Sources*, **2008**, 175, 732-738	8.9	34

29	Comparison between numerical simulation and visualization experiment on water behavior in single straight flow channel polymer electrolyte fuel cells. *Journal of Power Sources*, **2008**, 177, 303-313	8.9	29
28	NiO□cSZ and Ni0.9Mg0.1O□cSZ-based anodes under internal dry reforming of simulated biogas mixtures. *Journal of Power Sources*, **2008**, 180, 738-741	8.9	29
27	Poisoning of SOFC anodes by various fuel impurities. *Solid State Ionics*, **2008**, 179, 1427-1431	3.3	183
26	Feasibility of direct-biogas SOFC. *International Journal of Hydrogen Energy*, **2008**, 33, 6316-6321	6.7	132
25	Fuel Impurity Tolerance of Solid Oxide Fuel Cells. *ECS Transactions*, **2007**, 7, 1675-1683	1	35
24	Effect of Water Vapor and SOx in Air on the Cathodes of Solid Oxide Fuel Cells. *Materials Research Society Symposia Proceedings*, **2007**, 1041, 1		5
23	Estimation of Flooding in PEMFC Gas Diffusion Layer by Differential Pressure Measurement. *880-02 Nihon Kikai Gakkai Ronbunsh□Transactions of the Japan Society of Mechanical Engineers Series B B-hen*, **2007**, 73, 1556-1561		
22	Numerical Analysis of Transient Response in Polymer Electrolyte Membrane Fuel Cell Considering Gas/Liquid Two Phase Flow. *880-02 Nihon Kikai Gakkai Ronbunsh□Transactions of the Japan Society of Mechanical Engineers Series B B-hen*, **2007**, 73, 855-862		1
21	H[sub 2]S Poisoning of Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2006**, 153, A2023	3.9	217
20	Ni1□□MgxAlyO□cSZ anodes for solid oxide fuel cells. *Solid State Ionics*, **2006**, 177, 1371-1380	3.3	21
19	Platinum monolayer on nonnoble metal-noble metal core-shell nanoparticle electrocatalysts for O2 reduction. *Journal of Physical Chemistry B*, **2005**, 109, 22701-4	3.4	502
18	Nanostructuring of PEFC Electrode Catalysts Using Carbon Nanofibers. *ECS Proceedings Volumes*, **2004**, 2004-21, 159-170		2
17	Nanostructured PEFC Electrode Catalysts Prepared via In-situ Colloidal Impregnation. *Materials Research Society Symposia Proceedings*, **2004**, 835, K7.4.1		2
16	Fe/Mn-based Perovskite-Type Oxides with Excellent Oxygen Permeability and Reduction Tolerance. *Materials Research Society Symposia Proceedings*, **2004**, 835, K2.6.1		1
15	Direct-Alcohol SOFCs: Current-Voltage Characteristics and Fuel Gas Compositions. *Journal of the Electrochemical Society*, **2004**, 151, A965	3.9	55
14	Multi-Fuel Capability of Solid Oxide Fuel Cells. *Journal of Electroceramics*, **2004**, 13, 669-675	1.5	46
13	Release and Diffusion Rate of Helium in Neutron-Irradiated SiC. *Journal of Nuclear Science and Technology*, **2004**, 41, 751-755	1	19
12	Equilibria in Fuel Cell Gases. *Journal of the Electrochemical Society*, **2003**, 150, A885	3.9	141

11	Equilibria in Fuel Cell Gases. *Journal of the Electrochemical Society*, **2003**, 150, A878	3.9	150
10	Fuel flexibility in power generation by solid oxide fuel cells. *Solid State Ionics*, **2002**, 152-153, 411-416	3.3	179
9	Current-Voltage Characteristics and Impedance Analysis of Solid Oxide Fuel Cells for Mixed H[sub 2] and CO Gases. *Journal of the Electrochemical Society*, **2002**, 149, A227	3.9	59
8	Direct-Alcohol/Hydrocarbon SOFCs : Comparison of Power Generation Characteristics for Various Fuels. *Electrochemistry*, **2002**, 70, 18-22	1.2	18
7	Re-analysis of defect equilibria and transport parameters in Y2O3-stabilized ZrO2 using EPR and optical relaxation. *Solid State Ionics*, **2000**, 134, 303-321	3.3	121
6	Nb2O5-Based Composite Electrodes for Dye-Sensitized Solar Cells.. *Journal of the Ceramic Society of Japan*, **2000**, 108, 1067-1071		37
5	Low-temperature defect chemistry of oxides. II. Analytical relations. *Journal of Applied Physics*, **1999**, 86, 5434-5443	2.5	29
4	Low-temperature defect chemistry of oxides. I. General aspects and numerical calculations. *Journal of Applied Physics*, **1999**, 86, 5422-5433	2.5	72
3	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	3.9	119
2	Electronic Conductivity of In2 O 3 Solid Solutions with ZrO2. *Journal of the Electrochemical Society*, **1994**, 141, 2759-2768	3.9	32
1	Release and Diffusion Rate of Helium in Neutron-Irradiated SiC		4