

# Kazuhisa Sato

## List of Publications by Citations

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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.

120 papers	1,661 citations	21 h-index	37 g-index
133 ext. papers	1,784 ext. citations	2.5 avg, IF	4.2 L-index

#	Paper	IF	Citations
120	Enhancement of oxygen exchange at the hetero interface of (La,Sr)CoO <sub>3</sub> /(La,Sr) <sub>2</sub> CoO <sub>4</sub> in composite ceramics. <i>Solid State Ionics</i> , <b>2008</b> , 178, 1843-1852	3.3	114
119	Oxygen nonstoichiometry and defect equilibrium in La <sub>2</sub> 1-xSrxNiO <sub>4</sub> + 1Solid State Ionics, <b>2009</b> , 180, 368-376	3.3	94
118	Oxygen nonstoichiometry and defect structure analysis of B-site mixed perovskite-type oxide (La, Sr)(Cr, M)O <sub>3</sub> (M=Ti, Mn and Fe). <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 3177-3184	3.3	80
117	Oxygen nonstoichiometry and thermo-chemical stability of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>1-y</sub> FeyO <sub>3</sub> - (y = 0.2, 0.4, 0.6, 0.8). <i>Solid State Ionics</i> , <b>2010</b> , 181, 1713-1719	3.3	76
116	Thermal and chemical lattice expansibility of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>1-y</sub> FeyO <sub>3</sub> (y = 0.2, 0.4, 0.6 and 0.8). <i>Solid State Ionics</i> , <b>2011</b> , 186, 37-43	3.3	73
115	Defect structure analysis of B-site doped perovskite-type proton conducting oxide BaCeO <sub>3</sub> : Part 2: The electrical conductivity and diffusion coefficient of BaCe <sub>0.9</sub> Y <sub>0.1</sub> O <sub>3</sub> Solid State Ionics, <b>2008</b> , 179, 2240-2247	3.3	72
114	Elastic modulus and internal friction of SOFC electrolytes at high temperatures under controlled atmospheres. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 7989-7993	8.9	60
113	Synthesis of NiO 1-xCe <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>1.95</sub> nanocomposite powders for low-temperature solid oxide fuel cell anodes by co-precipitation. <i>Scripta Materialia</i> , <b>2009</b> , 60, 254-256	5.6	50
112	Electronic state of oxygen nonstoichiometric La <sub>(2-x)</sub> Sr <sub>(x)</sub> NiO <sub>(4+delta)</sub> at high temperatures. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3055-62	3.6	47
111	Composite Cathode of Perovskite-Related Oxides, (La,Sr)CoO <sub>3</sub> 1-x(La,Sr) <sub>2</sub> CoO <sub>4</sub> 1Solid State Ionics, <b>2009</b> , 180, 127-131		44
110	Defect structure analysis of B-site doped perovskite-type proton conducting oxide BaCeO <sub>3</sub> Part 1: The defect concentration of BaCe <sub>0.9</sub> M <sub>0.1</sub> O <sub>3</sub> (M=Y and Yb). <i>Solid State Ionics</i> , <b>2009</b> , 180, 127-131	3.3	44
109	Electrochemical Behaviors of Mixed Conducting Oxide Anodes for Solid Oxide Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, B563	3.9	43
108	Molecular Dynamics Simulation of Ni Nanoparticles Sintering Process in Ni/YSZ Multi-Nanoparticle System. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9663-9672	3.8	42
107	Determination of the Reaction Zone in Gadolinia-Doped Ceria Anode for Solid Oxide Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, B1244	3.9	42
106	Structural analysis of La <sub>2</sub> 1-xSrxNiO <sub>4</sub> + 1by high temperature X-ray diffraction. <i>Solid State Ionics</i> , <b>2010</b> , 181, 292-299	3.3	38
105	Surface reaction of hydrogen on a palladium alloy membrane under co-existence of H <sub>2</sub> O, CO, CO <sub>2</sub> or CH <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 4023-4029	6.7	37
104	Oxygen nonstoichiometry of the perovskite-type oxides BaCe <sub>0.9</sub> M <sub>0.1</sub> O <sub>3</sub> (M=MY, Yb, Sm, Tb, and Nd). <i>Solid State Ionics</i> , <b>2008</b> , 179, 529-535	3.3	35

103	Thermally-induced and chemically-induced structural changes in layered perovskite-type oxides $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_4$ + $\text{La}$ ( $x = 0, 0.2, 0.4$ ). <i>Solid State Ionics</i> , <b>2010</b> , 181, 402-411	3-3	30
102	Elastic moduli of $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{2-\delta}$ at high temperatures under controlled atmospheres. <i>Solid State Ionics</i> , <b>2011</b> , 198, 32-38	3-3	28
101	Electrical conductivity, Seebeck coefficient, and defect structure of oxygen nonstoichiometric $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ . <i>Materials Chemistry and Physics</i> , <b>2010</b> , 122, 250-258	4-4	26
100	Effect of thickness of $\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ electrolyte films on electrical performance of anode-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 5487-5492	8-9	24
99	Electrical Conductivity and Oxygen Diffusivity of Perovskite-Type Solid Solution $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ ( $y=0.2, 0.4, 0.5, 0.6, 0.8$ ). <i>ECS Transactions</i> , <b>2011</b> , 35, 1899-1907	1	21
98	Oxygen nonstoichiometry and chemical stability of $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ . <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 1533-1537	3-3	21
97	Fracture process of nonstoichiometric oxide based solid oxide fuel cell under oxidizing/reducing gradient conditions. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 5481-5486	8-9	21
96	Preparation of SDC electrolyte thin films on dense and porous substrates by modified sol-gel route. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 148, 73-76	7-1	20
95	Hydrogen permeability and electrical properties in oxide composites?. <i>Solid State Ionics</i> , <b>2008</b> , 178, 1663-1667	3-3	19
94	Parallel Large-Scale Molecular Dynamics Simulation Opens New Perspective to Clarify the Effect of a Porous Structure on the Sintering Process of Ni/YSZ Multiparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31816-31824	9-5	18
93	Effect of $\text{Y}_2\text{O}_3$ addition on the conductivity and elastic modulus of $(\text{CeO}_2)_{1-x}(\text{YO}_{1.5})_x$ . <i>Solid State Ionics</i> , <b>2009</b> , 180, 1220-1225	3-3	18
92	A comparative study of $\text{NiO}-\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ nanocomposite powders synthesized by hydroxide and oxalate co-precipitation methods. <i>Ceramics International</i> , <b>2012</b> , 38, 85-92	5-1	17
91	Improvement of electrochemical performance of anode-supported SOFCs by $\text{NiO}-\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ nanocomposite powders. <i>Solid State Ionics</i> , <b>2010</b> , 181, 1238-1243	3-3	17
90	Mechanical Damage Evaluation of Solid Oxide Fuel Cells under Simulated Operating Conditions. <i>Journal of the Ceramic Society of Japan</i> , <b>2005</b> , 113, 562-564		17
89	Defect chemical and statistical thermodynamic studies on oxygen nonstoichiometric $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ . <i>Solid State Ionics</i> , <b>2009</b> , 180, 1406-1413	3-3	16
88	Thermodynamic quantities and defect equilibrium in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ . <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 1121-1128	3-3	16
87	Multi-nanoparticle model simulations of the porosity effect on sintering processes in Ni/YSZ and Ni/ScSZ by the molecular dynamics method. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 21518-21527	13	15
86	Multiscale Simulation of Electro-Chemo-Mechanical Coupling Behavior of PEN Structure under SOFC Operation. <i>ECS Transactions</i> , <b>2011</b> , 35, 923-933	1	13

85	Reaction kinetics on platinum electrode / yttrium-doped barium cerate interface under H <sub>2</sub> /H <sub>2</sub> O atmosphere. <i>Solid State Ionics</i> , <b>2010</b> , 181, 240-248	3.3	13
84	Electrical Properties of Nb-Doped SrTiO <sub>3</sub> Ceramics with Excess TiO <sub>2</sub> for SOFC Anodes and Interconnects. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, B16	3.9	13
83	Communication: different behavior of Young's modulus and fracture strength of CeO <sub>2</sub> : density functional theory calculations. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 121102	3.9	12
82	Crystal structure and thermal expansion behavior of oxygen stoichiometric lanthanum strontium manganite at high temperature. <i>Solid State Ionics</i> , <b>2014</b> , 256, 83-88	3.3	12
81	Deformation and Fracture Characteristics of Zirconia and Ceria-Based Electrolytes for SOFCs under Reducing Atmospheres. <i>ECS Transactions</i> , <b>2009</b> , 25, 1565-1572	1	12
80	Preparation of Doped Ceria Electrolyte Films for SOFCs by Spray Coating Method. <i>Journal of Dispersion Science and Technology</i> , <b>2009</b> , 30, 241-245	1.5	11
79	Detection of Degradation of Lithium-Ion Batteries with Acoustic Emission Technique. <i>ECS Transactions</i> , <b>2009</b> , 25, 163-167	1	11
78	A simple, rapid spray method for preparing anode-supported solid oxide fuel cells with GDC electrolyte thin films. <i>Journal of Membrane Science</i> , <b>2010</b> , 350, 1-4	9.6	11
77	Slow relaxation kinetics of Sr(Zr, Y)O <sub>3</sub> in wet atmosphere. <i>Solid State Ionics</i> , <b>2008</b> , 179, 851-854	3.3	11
76	Promotion of Oxygen Surface Reaction at the Hetero-Interface of (La,Sr)CoO <sub>3</sub> / (La,Sr) <sub>2</sub> CoO <sub>4</sub> . <i>ECS Transactions</i> , <b>2007</b> , 7, 1055-1060	1	11
75	Electrode Performance at Hetero-interface of Perovskite-related Oxides, (La, Sr)CoO <sub>3</sub> -/(La, Sr) <sub>2</sub> CoO <sub>4</sub> . <i>ECS Transactions</i> , <b>2007</b> , 7, 1287-1292	1	10
74	Oxygen Nonstoichiometry, Crystal Structure, and Mechanical Properties of La <sub>2</sub> NiO <sub>4</sub> +. <i>ECS Transactions</i> , <b>2009</b> , 25, 2573-2580	1	9
73	Cooperative Investigations on Degradation of Cathode Materials in Segment-In-Series Cells by MHI. <i>ECS Transactions</i> , <b>2011</b> , 35, 2191-2200	1	9
72	Oxygen Nonstoichiometry of Perovskite-type La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>1-y</sub> FeyO <sub>3</sub> - (y=0, 0.2, 0.4, 0.5, 0.6, 0.8, 1) SOFC Cathode Materials. <i>ECS Transactions</i> , <b>2011</b> , 35, 1881-1890	1	8
71	Kullback-Leibler Divergence Based Kernel SOM for Visualization of Damage Process on Fuel Cells <b>2010</b> ,		8
70	Investigation of High Temperature Elastic Modulus and Internal Friction of SOFC Electrolytes Using Resonance Method. <i>ECS Transactions</i> , <b>2009</b> , 25, 1673-1677	1	8
69	Classification of Mechanical Failure in SOFC and Strategy for Evaluation of Operational Margin. <i>ECS Transactions</i> , <b>2009</b> , 25, 467-472	1	8
68	High Temperature Defect Equilibrium, Solid State Properties and Crystal Structure of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>1-y</sub> FeyO <sub>3</sub> - (y=0.2, 0.4, 0.6, 0.8) for Cathode of Solid Oxide Fuel Cells. <i>ECS Transactions</i> , <b>2009</b> , 25, 2375-2380	1	8

67	Defect structure analysis of proton-oxide ion mixed conductor BaCe <sub>0.9</sub> Nd <sub>0.1</sub> O <sub>3</sub> <i>Solid State Ionics</i> , <b>2010</b> , 181, 1336-1343	3-3	8
66	Electrical conductivity and chemical diffusion in Perovskite-type proton conductors in H <sub>2</sub> /H <sub>2</sub> O gas mixtures. <i>Solid State Ionics</i> , <b>2011</b> , 192, 76-82	3-3	7
65	Visualization of Damage Progress in Solid Oxide Fuel Cells. <i>Journal of Environment and Engineering</i> , <b>2011</b> , 6, 499-511		6
64	Combining Burst Extraction Method and Sequence-Based SOM for Evaluation of Fracture Dynamics in Solid Oxide Fuel Cell <b>2007</b> ,		6
63	Ionic Conductivity in Uniaxial Micro Strain/Stress Fields of Yttria-Stabilized Zirconia. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 055803	1-4	6
62	Simple and rapid preparation of Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>1.95</sub> electrolyte films for anode-supported solid oxide fuel cells. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 2813-2817	4-4	5
61	Effect of Redox Cycling on Mechanical Properties of Ni-YSZ Cermets for SOFC Anodes. <i>ECS Transactions</i> , <b>2011</b> , 35, 1473-1482	1	5
60	Defect equilibrium and electron transport in the bulk of single crystal SrTi <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> (x = 0.01, 0.001, 0.0002). <i>Solid State Ionics</i> , <b>2008</b> , 179, 2335-2344	3-3	5
59	Effects of temperatures and carbon dioxide nanobubbles on superior electric storage for anodically oxidized films of AlY <sub>10</sub> amorphous alloy. <i>AIP Advances</i> , <b>2019</b> , 9, 095202	1-5	5
58	Evaluation of Mechanical Damages in SOFCs during Start/Stop Operation by Using Acoustic Emission Technique. <i>ECS Transactions</i> , <b>2017</b> , 78, 2355-2363	1	4
57	Carbon Deposition and Electrochemical Reaction of Anode for SOFC in Methane Containing Atmosphere. <i>ECS Transactions</i> , <b>2009</b> , 16, 213-218	1	4
56	High-Temperature Defect and Crystal Structure of Perovskite Type Oxide Ion Conductor La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.15</sub> Co <sub>0.05</sub> O <sub>3-δ</sub> <i>ECS Transactions</i> , <b>2009</b> , 25, 1701-1708	1	4
55	Conductivity Variation of Yttria-Stabilized Zirconia Under Stress. <i>ECS Transactions</i> , <b>2009</b> , 16, 125-132	1	4
54	Conductivities and Seebeck Coefficients of donor-doped-SrTiO <sub>3</sub> Oxide Ceramics. <i>ECS Transactions</i> , <b>2009</b> , 25, 2631-2638	1	4
53	Microstructural Changes of Ni/YSZ Cermet under Repeated Redox Reaction in Environmental Scanning Electron Microscope (ESEM). <i>ECS Transactions</i> , <b>2007</b> , 7, 1373-1380	1	4
52	Theoretical Study on the Effect of Three-Dimensional Porous Structure on the Sintering of Nickel Nanoparticles in the Ni/YSZ Anode. <i>ECS Transactions</i> , <b>2013</b> , 57, 2459-2464	1	3
51	Mechanical Properties Evaluation Method for Non-Stoichiometric Materials under High Temperature and Oxidizing/Reducing Conditions. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2011</b> , 77, 1357-1366		3
50	High-Temperature Protonic Conduction in LaFeO <sub>3</sub> /BrFeO <sub>3</sub> /BrZrO <sub>3</sub> Solid Solutions. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, B180	3-9	3

49	Mechanical Properties of Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-<math>\lambda</math></sub> at High Temperatures under Controlled Atmospheres. <i>ECS Transactions</i> , <b>2011</b> , 35, 1145-1149	1	3
48	Electrical conduction and mass transport properties of SrZr <sub>0.99</sub> Fe <sub>0.01</sub> O <sub>3-<math>\lambda</math></sub> <i>Solid State Ionics</i> , <b>2010</b> , 181, 868-873	3.3	3
47	Influences of Ni content and porosity on mechanical properties of Ni/YSZ composites under solid oxide fuel cell operating conditions. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 8679-8693	4.3	3
46	Estimation of micro-size defects in electrolyte thin-film by X-ray stress measurement for anode-supported solid oxide fuel cells. <i>Mechanical Engineering Journal</i> , <b>2016</b> , 3, 16-00177-16-00177	0.5	2
45	Development of In-Situ Mechanical Testing Method for SOFC Components <b>2010</b> ,		2
44	High-Temperature Gravimetric Study on the Kinetics of the Formation of SrTiO <sub>3</sub> by Solid State Reaction of SrCO <sub>3</sub> and TiO <sub>2</sub> . <i>ECS Transactions</i> , <b>2009</b> , 16, 205-210	1	2
43	Ionic Conductivity in Uniaxial Micro Strain/Stress Fields of Yttria-Stabilized Zirconia. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 055803	1.4	2
42	In situ Observation of the Deformation and Mechanical Damage of SOFC Cell/Stack. <i>ECS Transactions</i> , <b>2011</b> , 35, 225-229	1	2
41	Synthesis of La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> Nanopowders and Their Application in Solid Oxide Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , <b>2011</b> , 8,		2
40	Growth Analysis of Neighbor Network for Evaluation of Damage Progress. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 933-940	0.9	2
39	Co-occurring Cluster Mining for Damage Patterns Analysis of a Fuel Cell. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 49-60	0.9	2
38	Investigation of mechanical damage of SOFC caused by electrochemical oxidation using in-situ acoustic emission and electrochemical technique <b>2016</b> ,		2
37	Anisotropy of Fracture Toughness of Stabilized Zirconia Investigated by Nano-Indentation Method. <i>Materials Transactions</i> , <b>2018</b> , 59, 23-26	1.3	1
36	Evaluation of High-temperature Electronic and Electrochemical Properties of the Strained La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-<math>\delta</math></sub> Films Prepared by a Pulsed Laser Deposition Technique. <i>Electrochemistry</i> , <b>2014</b> , 82, 884-890	1.2	1
35	Mechanical Strength Evaluation of YSZ, GDC and LSCF under SOFC Operating Conditions. <i>ECS Transactions</i> , <b>2017</b> , 78, 2181-2190	1	1
34	Co-precipitation synthesis and characterization of NiO-Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> nanocomposite powders: effect of precipitation agents. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 2336-43	1.3	1
33	Visualization of Damage Progress on Solid Oxide Fuel Cell. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2010</b> , 76, 223-232		1
32	Evaluation of the Effect of Rare-Earth Oxides Addition on Fracture Properties of Ceria Ceramics by Small Specimen Method. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2004</b> , 70, 321-326		1



31	Evaluation of Elastic Property of (CeO <sub>2</sub> ) <sub>1-x</sub> (Y <sub>2</sub> O <sub>3</sub> ) <sub>x</sub> Ceramics. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , <b>2005</b> , 52, 840-844	0.2	1
30	Extraction of Essential Events with Application to Damage Evaluation on Fuel Cells. <i>Smart Innovation, Systems and Technologies</i> , <b>2011</b> , 89-108	0.5	1
29	Mining of Co-occurring Clusters for Damage Pattern Extraction of a Fuel Cell. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , <b>2012</b> , 27, 121-132	0.7	1
28	Effect of pinholes in electrolyte on re-oxidation tolerance of anode-supported solid oxide fuel cells. <i>Fuel Cells</i> , <b>2021</b> , 21, 398-407	2.9	1
27	Relationship between microstructure and deformation of porous Ni-based cermets under redox cycling. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	1
26	Development of dental inspection method: nondestructive evaluation of a dentin-adhesive interface by acoustic emission. <i>Journal of Prosthodontic Research</i> , <b>2021</b> , 65, 438-442	4.3	0
25	Effects of temperature and hydrogen concentration during reduction on deformation behavior of NiO- yttria stabilized zirconia used in solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2022</b> , 535, 231384	8.9	0
24	Electrochemical Degradation Caused by Mechanical Damage in Silicon Negative Electrodes. <i>ECS Transactions</i> , <b>2017</b> , 75, 31-37	1	
23	Mechanical Analysis to Improve Reliability and Durability of Solid Oxide Fuel Cells. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 1704-1707	0.4	
22	Synthesis of La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> Nanopowders and Their Application in Solid Oxide Fuel Cells. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2011</b> , 18, 132002	0.4	
21	Oxygen Nonstoichiometry and Defect Equilibrium in La <sub>2-x</sub> Sr <sub>x</sub> NiO <sub>4+δ</sub> . <i>ECS Transactions</i> , <b>2009</b> , 16, 193-198	1	
20	Design Concept for the High Temperature Photoelectronic Devices Using SrTiO <sub>3</sub> . <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, P107	3.9	
19	The Design Concept for High-Temperature Photo-Electronic Devices using SrTiO <sub>3</sub> . <i>ECS Transactions</i> , <b>2009</b> , 16, 459-469	1	
18	Anode-Supported SOFCs with Electrolyte Thin Films Prepared by Spray Coating. <i>Materials Science Forum</i> , <b>2009</b> , 631-632, 319-324	0.4	
17	Electrical Conductivity and Thermoelectric Power of La <sub>2-x</sub> Sr <sub>x</sub> NiO <sub>4+δ</sub> . <i>ECS Transactions</i> , <b>2009</b> , 16, 317-325	1	
16	Electrochemical Behaviors of Mixed Conducting Oxide Anodes for SOFC. <i>ECS Transactions</i> , <b>2007</b> , 7, 1601-1607	1	
15	Evaluation of Fracture Behavior of (CeO <sub>2</sub> ) <sub>1-x</sub> (SmO <sub>1.5</sub> ) <sub>x</sub> Based Solid Oxide Fuel Cell Laminates. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , <b>2005</b> , 52, 836-839	0.2	
14	213 Mechanical and Electrical properties of Ceria based Ceramics Electrolytes for Solid Oxide Fuel Cells under High Temperature Condition. <i>The Proceedings of Conference of Tohoku Branch</i> , <b>2004</b> , 2004.39, 70-71	0	

- 13 214 Prediction of Elastic Modulus of Ceria based Ceramic Composites for SOFCs by Molecular Dynamics. *The Proceedings of Conference of Tohoku Branch*, **2005**, 2005.40, 78-79 ○
- 12 Determination of the interfacial fracture energy in SOFC electrode/electrolyte interfaces by using modified four-point bending method. *The Proceedings of Mechanical Engineering Congress Japan*, **2018**, 2018, J0310202 ○
- 11 X-Ray stress measurement of the electrolyte for anode-supported SOFCs by the cos  $\theta$  method. *The Proceedings of Mechanical Engineering Congress Japan*, **2019**, 2019, J03101 ○
- 10 OS15-2 Determination of Fracture Properties in Ion Conducting Ceramics under Simulated Operating Conditions for Solid Oxide Fuel Cells(Durability and reliability of next-generation energy systems 1,OS15 Durability and reliability of next-generation energy systems,APPLICATIONS). *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian* ○
- 9 Investigation into Mechanical Damages of SOFCs under Redox Cycle Operation. *The Proceedings of Mechanical Engineering Congress Japan*, **2017**, 2017, J0620102 ○
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