

Keiji Yashiro

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Performance and stability analysis of SOFC containing thin and dense gadolinium-doped ceria interlayer sintered at low temperature. <i>Journal of Materiomics</i> , 2022, 8, 347-357.	2.8	20
2	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> , 2022, 535, 231384.	4.0	4
3	Modulating Reaction Pathways on Perovskite Cobaltite Nanofibers through Excessive Surface Oxygen Defects for Efficient Water Oxidation. <i>Energy & Fuels</i> , 2021, 35, 13967-13974.	2.5	7
4	Relationship between microstructure and deformation of porous Ni-based cermets under redox cycling. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	7
5	In Situ Evaluation of the Influence of Interstitial Oxygen on the Elastic Modulus of La ₂ NiO ₄ . <i>Metals</i> , 2021, 11, 1889.	1.0	0
6	Determination of relevant factors affecting the surface oxygen exchange coefficient of solid oxide fuel cell cathode with ionic conducting oxide coating. <i>Solid State Ionics</i> , 2020, 353, 115372.	1.3	7
7	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> , 2020, 55, 8679-8693.	1.7	7
8	Correlation between Electrode Reaction and Chromium Deposition in SOFC Cathodes. <i>ECS Transactions</i> , 2019, 91, 1231-1237.	0.3	1
9	Material Development Strategy of Lightweight Solid Oxide Fuel Cells for Airplane System Electrification. <i>ECS Transactions</i> , 2019, 91, 311-318.	0.3	3
10	Evaluation Method of Current Distribution in SOFC in Operation. <i>ECS Transactions</i> , 2019, 91, 579-588.	0.3	0
11	Variation of Mechanical Properties of YSZ upon Cubic to Tetragonal Phase Transformation Promoted by Impurity Ni. <i>ECS Transactions</i> , 2019, 91, 837-845.	0.3	0
12	Study of CaTiO ₃ Based Ionic Conductors for Lightweight SOFCs. <i>ECS Transactions</i> , 2019, 91, 1217-1222.	0.3	2
13	Contraction of Porous Nickel during Low Temperature Oxidation. <i>ECS Transactions</i> , 2019, 91, 1979-1984.	0.3	0
14	Evaluation of Titanium Based Alloys as Interconnects for the Light Weight SOFC System. <i>ECS Transactions</i> , 2019, 91, 2279-2290.	0.3	0
15	Evaluation of electrochemical properties of LaNi _{0.6} Fe _{0.4} O _{3-δ} - Ce _{0.9} Gd _{0.1} O _{1.95} composite as air electrode for SOFC. <i>Solid State Ionics</i> , 2019, 332, 70-76.	1.3	15
16	Thermochemical CO ₂ dissociation using Ce _{0.8} Zr _{0.15} Sc _{0.05} O _{2-δ} . <i>Solid State Ionics</i> , 2018, 317, 103-107.	1.3	1
17	Investigation of rate-determining step of LaNi _{0.6} Co _{0.4} O _{3-δ} film electrode. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2227-2235.	1.2	2
18	Simulation of ferroelastic phase formation using phase-field model. <i>International Journal of Mechanical Sciences</i> , 2018, 146-147, 462-474.	3.6	11

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19	Shape deformation analysis of anode-supported solid oxide fuel cell by electro-chemo-mechanical simulation. Solid State Ionics, 2018, 319, 194-202.	1.3	9
20	Electrochemical performance of LaNi _{0.6} Co _{0.4} O _{3-δ} /Ce _{0.9} Gd _{0.1} O _{1.95} composite electrode and evaluation of its effective reaction length. Journal of Solid State Electrochemistry, 2018, 22, 3955-3963.	1.2	5
21	The Origin of Instability of Lanthanum Strontium Cobalt Ferrite (La _{1-x} Sr _x Co _{1-y} Fe _y O _{3-δ} ; LSCF) under Oxygen Potential Gradient. ECS Transactions, 2017, 75, 1-9.	0.3	3
22	Bulk- and Powder Surface Exchange Coefficients of (La,Sr)CoO _{3-d} . ECS Transactions, 2017, 75, 69-74.	0.3	1
23	Simulation Technology on SOFC Durability With an Emphasis on Conductivity Degradation of ZrO ₂ -Base Electrolyte. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	1.1	11
24	Self-modification of Ni Metal Surfaces with CeO ₂ to Suppress Carbon Deposition at Solid Oxide Fuel Cell Anodes. Fuel Cells, 2017, 17, 402-406.	1.5	21
25	Effect of a (La,Sr) ₂ CoO ₄ Phase on the Oxygen Exchange Reaction of Dense and Porous (La,Sr)CoO ₃ Electrodes. ECS Transactions, 2017, 77, 9-14.	0.3	2
26	(Invited) Triple Phase Boundary Reaction in a Mixed-Conducting SOFC Cathode. ECS Transactions, 2017, 77, 41-47.	0.3	7
27	Electronic conduction mechanism and defect chemical model of LaNi _{0.4} Fe _{0.6} O _{3-δ} . Solid State Ionics, 2017, 310, 148-153.	1.3	3
28	Mechanical Strength Evaluation of YSZ, GDC and LSCF under SOFC Operating Conditions. ECS Transactions, 2017, 78, 2181-2190.	0.3	1
29	Materials Properties for the Simulation of Electro-Chemo-Mechanical Coupling Behavior of SOFC. ECS Transactions, 2017, 78, 2309-2316.	0.3	1
30	Contribution of Triple-Phase Boundary Reaction in Cathodic Reaction of Solid Oxide Fuel Cell. ECS Transactions, 2017, 78, 847-853.	0.3	3
31	Mechanism of Chromium Poisoning in SOFC Cathode Investigated by Using Pattern Thin Film Model Electrode. ECS Transactions, 2017, 78, 965-970.	0.3	4
32	Oxygen reduction reaction process of LaNi _{0.6} Fe _{0.4} O _{3-δ} film / porous Ce _{0.9} Gd _{0.1} O _{1.95} heterostructure electrode. Solid State Ionics, 2017, 312, 80-87.	1.3	10
33	Numerical simulations of non-stationary distributions of electrochemical potentials in SOFC. Engineering Computations, 2017, 34, 1956-1988.	0.7	7
34	NUMERICAL PLATE TESTING FOR NON-LINEAR MULTI-SCALE ANALYSIS OF PLATE-SHAPED DEVICE. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2017, 73, I_283-I_294.	0.1	2
35	Multi-scale analysis of plate-shaped solid oxide fuel cell based on numerical plate testing. The Proceedings of the Materials and Mechanics Conference, 2017, 2017, OS1605.	0.0	0
36	Electrochemical Impedance Spectroscopy of High-Efficiency Hydrogen Membrane Fuel Cells Based on Sputter-Deposited BaCe _{0.8} Y _{0.2} O _{3-δ} Thin Films. Journal of Physical Chemistry C, 2016, 120, 15976-15985.	1.5	20

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37	Modification of oxygen surface exchange kinetics on a dense film of $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ by application of porous $(\text{La,Sr})_{2}\text{CoO}_{4}$, 2016, .		0
38	Thermal Properties of Perovskite-Type Oxides $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ($0 \leq x \leq 1.0$). ECS Transactions, 2016, 72, 105-110.	0.3	14
39	Tailoring the chemical stability of cobalt-rich perovskite mixed conductor. Solid State Ionics, 2016, 288, 2-5.	1.3	7
40	Oxygen nonstoichiometry and transport properties of $\text{LaNi}_{0.6}\text{Co}_{0.4}\text{O}_{3-\delta}$. Solid State Ionics, 2016, 292, 52-58.	1.3	5
41	Determination of oxygen surface exchange constant of $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_{3-\delta}$ coated with $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ by isotope exchange technique. Solid State Ionics, 2016, 286, 19-23.	1.3	11
42	A Simulation Coupling Phase Transformation and Mechanical Behavior of Material in Solid Oxide Fuel Cell. The Proceedings of the Computational Mechanics Conference, 2016, 2016.29, 4_142.	0.0	0
43	Oxygen Nonstoichiometry and Electrochemical Properties of $\text{LaNiO}_{3-\delta}$. ECS Transactions, 2015, 66, 177-183.	0.3	6
44	(Invited) Determination of Effective Reaction Area in a Mixed-Conducting SOFC Cathode. ECS Transactions, 2015, 66, 129-135.	0.3	1
45	Surface Modification of $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_{3-\delta}$ Film Electrode by $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ Porous Layer. ECS Transactions, 2015, 66, 161-168.	0.3	2
46	Electrochemical Study of $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_{3-\delta}$ Film Electrode. Journal of the Electrochemical Society, 2015, 162, F1445-F1450.	1.3	5
47	Quantitative Evaluation of Electrochemically Active Area in an SOFC Cathode by Oxygen Isotopic Exchange Measurements of a Model Patterned Electrode. ECS Transactions, 2015, 68, 623-630.	0.3	1
48	Characterization of time-varying macroscopic electro-chemo-mechanical behavior of SOFC subjected to Ni-sintering in cermet microstructures. Computational Mechanics, 2015, 56, 653-676.	2.2	16
49	Electro-Chemical Potential Analysis of Zirconium Based on the Reaction-Diffusion Equations of Oxygen Ion and Electron Considering Phase Transformation. ECS Transactions, 2015, 68, 2363-2372.	0.3	2
50	Direct Observation of the Current Distributions across SOFC by Measuring the Lateral Voltage Differences. ECS Transactions, 2015, 68, 2075-2081.	0.3	0
51	Effect of Mechanical Stress on Oxygen Potential of Transition Metal Oxides. Journal of the Electrochemical Society, 2014, 161, F3111-F3116.	1.3	3
52	Ferroelastic Domain Reorientations and Its Influence on Mechanical Properties of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$. Journal of the Electrochemical Society, 2014, 161, F3079-F3083.	1.3	9
53	Simulation of oxygen diffusion process on electrical conductivity relaxation. Solid State Ionics, 2014, 262, 696-700.	1.3	11
54	Influence of Surface/Interface on the Performance of MIEC Cathode for SOFC. ECS Transactions, 2014, 61, 37-46.	0.3	0

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55	Thermodynamic analyses of structural phase transition of Pr ₂ NiO _{4+δ} involving variation of oxygen content. <i>Thermochimica Acta</i> , 2014, 575, 129-134.	1.2	25
56	Transient shift of local oxygen potential in nonstoichiometric oxides upon application of mechanical stress. <i>Journal of Electroceramics</i> , 2014, 32, 78-85.	0.8	7
57	Oxide ion and electron transport properties in lanthanum silicate oxyapatite ceramics. <i>Solid State Ionics</i> , 2014, 262, 555-558.	1.3	12
58	Conduction Properties and Ionic Transference Behavior of CaTi _{1-x} Sc _x O _{3-δ} (x=0.05, 0.1). <i>ECS Transactions</i> , 2014, 61, 151-157.	0.3	8
59	Effect of Nb doping on the chemical stability of BSCF-based solid solutions. <i>Solid State Ionics</i> , 2014, 262, 719-723.	1.3	37
60	Crystal structure and thermal expansion behavior of oxygen stoichiometric lanthanum strontium manganite at high temperature. <i>Solid State Ionics</i> , 2014, 256, 83-88.	1.3	16
61	Analysis of structural phase transition behavior of Ln ₂ NiO ₄₊ (Ln: Nd, Pr) with variation of oxygen content. <i>Solid State Ionics</i> , 2014, 262, 724-727.	1.3	8
62	The crystal structure, oxygen nonstoichiometry and chemical stability of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3+δ} (BSCF). <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7307.	1.3	38
63	Development of in situ soft X-ray absorption spectroscopic technique under high temperature and controlled atmosphere. <i>Solid State Ionics</i> , 2014, 262, 911-913.	1.3	8
64	Evaluation of High-temperature Electronic and Electrochemical Properties of the Strained La _{1-x} Sr _x CoO _{3-δ} Films Prepared by a Pulsed Laser Deposition Technique. <i>Electrochemistry</i> , 2014, 82, 884-890.	0.6	1
65	OS1605 Ferroelastic Properties of Cathode Materials of Solid Oxide Fuel Cells. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2014, 2014, _OS1605-1_-_OS1605-3_.	0.0	0
66	Oxygen Nonstoichiometry of Ce _{0.6} La _{0.4} O _{2-δ} . <i>ECS Transactions</i> , 2013, 57, 1125-1133.	0.3	3
67	Cathodic Reaction of Perovskite Oxide Electrodes on a Proton Conducting Electrolyte. <i>ECS Transactions</i> , 2013, 57, 1985-1992.	0.3	1
68	Electrochemical Performance and Reaction Mechanism of La _{0.6} Fe _{0.4} O _{3-δ} Ce _{0.9} Gd _{0.1} O _{1.95} Composite Electrode for Solid Oxide Fuel Cell. <i>ECS Transactions</i> , 2013, 57, 1873-1878.	0.3	5
69	Oxygen Nonstoichiometry and Electrochemical Properties in a Thin Film of Nickel Substituted Lanthanum Cobaltite for SOFCs. <i>ECS Transactions</i> , 2013, 57, 1893-1899.	0.3	2
70	Direct Evaluation of Oxygen Chemical Potential Distribution in an SOFC Cathode by In Situ X-Ray Absorption Spectroscopy. <i>ECS Transactions</i> , 2013, 57, 1925-1932.	0.3	6
71	Electronic Structures of LaCoO ₃ -Based Oxides Studied by Soft X-ray Absorption Spectroscopy under Controlled Temperatures and Oxygen Partial Pressures. <i>ECS Transactions</i> , 2013, 57, 2051-2056.	0.3	2
72	The Effect of Coexisting Oxides Upon Carbon Formation on Ni Surface. <i>ECS Transactions</i> , 2013, 57, 1571-1576.	0.3	2

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73	The Effect of Cation Substitution on Chemical Stability of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} -Based Mixed Conductors. ECS Transactions, 2013, 57, 2041-2049.	0.3	1
74	Oxygen nonstoichiometry and thermo-chemical stability of La _{0.6} Sr _{0.4} CoO _{3δ} . Journal of Solid State Chemistry, 2013, 197, 38-45.	1.4	42
75	Oxygen Nonstoichiometry and Thermo-Chemical Stability of Perovskite-Type La _{0.6} Sr _{0.4} Co _{1-y} Fe _y O _{3-δ} . Journal of Solid State Chemistry, 2013, 197, 38-45.	1.4	42
76	Reducing the chemical expansion coefficient in ceria by addition of zirconia. Energy and Environmental Science, 2013, 6, 1142.	15.6	45
77	Thermo-chemical lattice expansion in La _{0.6} Sr _{0.4} Co _{1δ} Fe _y O _{3δ} . Solid State Ionics, 2013, 241, 12-16.	1.3	41
78	Effect of Mn-doping on stability of Scandia stabilized zirconia electrolyte under dual atmosphere of solid oxide fuel cells. Solid State Ionics, 2013, 247-248, 102-107.	1.3	10
79	Oxygen Transport in Perovskite Type Oxide La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} . ECS Transactions, 2013, 50, 37-42.	0.3	8
80	Phase Transformation Related Conductivity Degradation of NiO Doped YSZ: An In-situ Micro-Raman Analysis. Materials Research Society Symposia Proceedings, 2012, 1385, 1.	0.1	2
81	Mechanical Properties of Ni-YSZ Cermet Anode under SOFC Operating Condition by Using In-Situ Mechanical Testing Method. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2012, 78, 349-360.	0.2	2
82	In situ analysis on the electrical conductivity degradation of NiO doped yttria stabilized zirconia electrolyte by micro-Raman spectroscopy. Electrochimica Acta, 2012, 82, 263-267.	2.6	25
83	The Design and Development of an Evaluation System for Redox Characteristics of Anode Supported SOFCs Using In-Situ Acoustic Emission and Electrochemical Technique. , 2012, , .		2
84	Electrical Conductivity and Oxygen Diffusivity of Perovskite-Type Solid Solution La _{0.6} Sr _{0.4} Co _{1-y} Fe _y O _{3-δ} (y=0.2, 0.4, 0.5, 0.6), Tj ETQ 0 0 0 BT / Over	6.5	0
85	Oxygen Nonstoichiometry of Perovskite-type La _{0.6} Sr _{0.4} Co _{1-y} Fe _y O _{3-δ} (y=0, 0.2, 0.4, 0.5), Tj ETQ 1 1 0.784314 r	6.5	0
86	Mechanical Properties Evaluation Method for Non-Stoichiometric Materials under High Temperature and Oxidizing/Reducing Conditions. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 1357-1366.	0.2	4
87	Electrical conductivity and chemical diffusion in Perovskite-type proton conductors in H ₂ –H ₂ O gas mixtures. Solid State Ionics, 2011, 192, 76-82.	1.3	8
88	Thermal and chemical lattice expansibility of La _{0.6} Sr _{0.4} Co _{1δ} Fe O _{3δ} (y=0.2, 0.4, 0.6 and 0.8). Solid State Ionics, 2011, 186, 37-43.	1.3	77
89	Oxygen nonstoichiometry, thermo-chemical stability and lattice expansion of La _{0.6} Sr _{0.4} FeO _{3δ} . Solid State Ionics, 2011, 195, 7-15.	1.3	119
90	Ionic Conductivity in Uniaxial Micro Strain/Stress Fields of Yttria-Stabilized Zirconia. Japanese Journal of Applied Physics, 2011, 50, 055803.	0.8	4

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91	Multiscale Simulation of Electro-Chemo-Mechanical Coupling Behavior of PEN Structure under SOFC Operation. ECS Transactions, 2011, 35, 923-933.	0.3	17
92	In situ Observation of the Deformation and Mechanical Damage of SOFC Cell/Stack. ECS Transactions, 2011, 35, 225-229.	0.3	2
93	High-Temperature Protonic Conduction in LaFeO_3 - SrFeO_3 - SrZrO_3 Solid Solutions. Journal of the Electrochemical Society, 2011, 158, B180.	1.3	3
94	Mechanical Properties of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ under Various Temperatures and Oxygen Partial Pressures. ECS Transactions, 2011, 35, 2429-2434.	0.3	0
95	Ionic Conductivity in Uniaxial Micro Strain/Stress Fields of Yttria-Stabilized Zirconia. Japanese Journal of Applied Physics, 2011, 50, 055803.	0.8	6
96	Thermally-induced and chemically-induced structural changes in layered perovskite-type oxides $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+}$ ($x = 0, 0.2, 0.4$). Solid State Ionics, 2010, 181, 402-411.	1.3	39
97	Defect structure analysis of proton-oxide ion mixed conductor $\text{BaCe}_{0.9}\text{Nd}_{0.1}\text{O}_{3-\delta}$. Solid State Ionics, 2010, 181, 1336-1343.	1.3	9
98	Electrical conductivity, Seebeck coefficient, and defect structure of oxygen nonstoichiometric $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+}$. Materials Chemistry and Physics, 2010, 122, 250-258.	2.0	30
99	Fracture process of nonstoichiometric oxide based solid oxide fuel cell under oxidizing/reducing gradient conditions. Journal of Power Sources, 2010, 195, 5481-5486.	4.0	23
100	Reaction kinetics on platinum electrode / yttrium-doped barium cerate interface under H_2 - H_2O atmosphere. Solid State Ionics, 2010, 181, 240-248.	1.3	15
101	Structural analysis of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+}$ by high temperature X-ray diffraction. Solid State Ionics, 2010, 181, 292-299.	1.3	45
102	Electrical conduction and mass transport properties of $\text{SrZr}_{0.99}\text{Fe}_{0.01}\text{O}_{3-\delta}$. Solid State Ionics, 2010, 181, 868-873.	1.3	3
103	Oxygen nonstoichiometry and thermo-chemical stability of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ ($y = 0.2, 0.4, 0.6, 0.8$). Solid State Ionics, 2010, 181, 1713-1719.	1.3	84
104	Nondestructive depth-resolved chemical state analysis of $(\text{La,Sr})\text{MnO}_3$ film under high temperature. Surface and Interface Analysis, 2010, 42, 1650-1654.	0.8	18
105	Development of In-Situ Mechanical Testing Method for SOFC Components. , 2010, , .		2
106	Carbon Deposition and Electrochemical Reaction of Anode for SOFC in Methane Containing Atmosphere. ECS Transactions, 2009, 16, 213-218.	0.3	5
107	Oxygen Nonstoichiometry and Defect Equilibrium in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+}$. ECS Transactions, 2009, 16, 193-198.	0.3	0
108	Composite Cathode of Perovskite-Related Oxides, $(\text{La,Sr})\text{CoO}_3$ - $(\text{La,Sr})_2\text{CoO}_4$, for Solid Oxide Fuel Cells. Electrochemical and Solid-State Letters, 2009, 12, B135.	2.2	45

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109	Oxygen Nonstoichiometry, Crystal Structure, and Mechanical Properties of $\text{La}_2\text{NiO}_4+\delta$. ECS Transactions, 2009, 25, 2573-2580.	0.3	9
110	High-Temperature Defect and Crystal Structure of Perovskite Type Oxide Ion Conductor $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.15}\text{Co}_{0.05}\text{O}_{3-\delta}$. ECS Transactions, 2009, 25, 1701-1708.	0.3	5
111	Electronic Properties and Oxygen Nonstoichiometry of Mixed-conducting Oxide $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{3-\delta}$ Thin Films at High Temperature. ECS Transactions, 2009, 16, 311-316.	0.3	2
112	Design Concept for the High Temperature Photoelectronic Devices Using SrTiO_3 . Journal of the Electrochemical Society, 2009, 156, P107.	1.3	0
113	The Design Concept for High-Temperature Photo-Electronic Devices using SrTiO_3 . ECS Transactions, 2009, 16, 459-469.	0.3	0
114	The Barrier Formation Mechanism on SrTiO_3 for High-Temperature Photo-Electronic Devices. ECS Transactions, 2009, 16, 451-458.	0.3	0
115	Classification of Mechanical Failure in SOFC and Strategy for Evaluation of Operational Margin. ECS Transactions, 2009, 25, 467-472.	0.3	8
116	Conductivity Variation of Yttria-Stabilized Zirconia Under Stress. ECS Transactions, 2009, 16, 125-132.	0.3	4
117	High-Temperature Gravimetric Study on the Kinetics of the Formation of SrTiO_3 by Solid State Reaction of SrCO_3 and TiO_2 . ECS Transactions, 2009, 16, 205-210.	0.3	5
118	Conductivities and Seebeck Coefficients of donor-doped- SrTiO_3 Oxide Ceramics. ECS Transactions, 2009, 25, 2631-2638.	0.3	5
119	Effect of Y_2O_3 addition on the conductivity and elastic modulus of $(\text{CeO}_2)_{1-x}(\text{YO}_{1.5})_x$. Solid State Ionics, 2009, 180, 1220-1225.	1.3	22
120	Defect structure analysis of B-site doped perovskite-type proton conducting oxide BaCeO_3 Part 1: The defect concentration of $\text{BaCe}_{0.9}\text{M}_{0.1}\text{O}_{3-\delta}$ (M = Y and Yb). Solid State Ionics, 2009, 180, 127-131.	1.3	55
121	Oxygen nonstoichiometry and defect equilibrium in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. Solid State Ionics, 2009, 180, 368-376.	1.3	111
122	Defect chemical and statistical thermodynamic studies on oxygen nonstoichiometric $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. Solid State Ionics, 2009, 180, 1406-1413.	1.3	17
123	Thermodynamic quantities and defect equilibrium in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. Journal of Solid State Chemistry, 2009, 182, 1121-1128.	1.4	17
124	Oxygen nonstoichiometry and chemical stability of $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. Journal of Solid State Chemistry, 2009, 182, 1533-1537.	1.4	22
125	High Temperature Defect Equilibrium, Solid State Properties and Crystal Structure of $\text{La}_{0.6-x}\text{Sr}_{0.4-x}\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ ($y=0.2, 0.4, 0.6, 0.8$) for Cathode of Solid Oxide Fuel Cells. ECS Transactions, 2009, 25, 2375-2380.	0.3	8
126	Electronic state of oxygen nonstoichiometric $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ at high temperatures. Physical Chemistry Chemical Physics, 2009, 11, 3055.	1.3	52

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127	Electrical Conductivity and Thermoelectric Power of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. ECS Transactions, 2009, 16, 317-325.	0.3	2
128	Oxygen nonstoichiometry and defect structure analysis of B-site mixed perovskite-type oxide $(\text{La}, \text{Tl})\text{ETQqO}_{0.00}\text{rgBT}/\text{Overlock}_{10}\text{Tf}50$	1.4	92
129	Hydrogen permeability and electrical properties in oxide composites. Solid State Ionics, 2008, 178, 1663-1667.	1.3	26
130	Enhancement of oxygen exchange at the hetero interface of $(\text{La}, \text{Sr})\text{CoO}_3/(\text{La}, \text{Sr})_2\text{CoO}_4$ in composite ceramics. Solid State Ionics, 2008, 178, 1843-1852.	1.3	132
131	Slow relaxation kinetics of $\text{Sr}(\text{Zr}, \text{Y})\text{O}_3$ in wet atmosphere. Solid State Ionics, 2008, 179, 851-854.	1.3	14
132	Oxygen nonstoichiometry of the perovskite-type oxides $\text{BaCe}_{0.9}\text{M}_{0.1}\text{O}_{3-\delta}$ (M = Y, Yb, Sm, Tb, and Nd). Solid State Ionics, 2008, 179, 529-535.	1.3	40
133	Defect structure analysis of B-site doped perovskite-type proton conducting oxide BaCeO_3 . Solid State Ionics, 2008, 179, 2240-2247.	1.3	88
134	Defect equilibrium and electron transport in the bulk of single crystal $\text{SrTi}_{1-x}\text{Nb}_x\text{O}_3$ ($x = 0.01, 0.001$). Tj ETQqO _{0.00} rgBT/Overlock ₁₀ Tf 50	1.3	7
135	Determination of the Reaction Zone in Gadolinia-Doped Ceria Anode for Solid Oxide Fuel Cell. Journal of the Electrochemical Society, 2008, 155, B1244.	1.3	48
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