Keiji Yashiro

List of Publications by Year
in descending order

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192 papers	3,684 citations	109264 35 h-index	161767 54 g-index
194 all docs	194 docs citations	194 times ranked	2673 citing authors

#	Article	IF	Citations
1	Determination of Oxygen Vacancy Concentration in a Thin Film of La[sub 0.6]Sr[sub 0.4]CoO[sub 3â^'Î´] by an Electrochemical Method. Journal of the Electrochemical Society, 2002, 149, E252.	1.3	212
2	Enhancement of oxygen exchange at the hetero interface of (La,Sr)CoO3/(La,Sr)2CoO4 in composite ceramics. Solid State Ionics, 2008, 178, 1843-1852.	1.3	132
3	Oxygen nonstoichiometry, thermo-chemical stability and lattice expansion of La0.6Sr0.4FeO3â^'Î´. Solid State Ionics, 2011, 195, 7-15.	1.3	119
4	Oxygen nonstoichiometry and defect equilibrium in La2â^'Sr NiO4+. Solid State Ionics, 2009, 180, 368-376.	1.3	111
5	Enhancement of Oxygen Surface Exchange at the Hetero-interface of (La,Sr)CoO[sub 3]/(La,Sr)[sub 2]CoO[sub 4] with PLD-Layered Films. Journal of the Electrochemical Society, 2008, 155, B793.	1.3	98
6	Lattice expansion upon reduction of perovskite-type LaMnO3 with oxygen-deficit nonstoichiometry. Solid State Ionics, 2003, 161, 209-217.	1.3	96
7	Hydrogen separation using proton-conducting perovskites. Journal of Alloys and Compounds, 2006, 408-412, 456-462.	2.8	96
8	Oxygen nonstoichiometry and defect structure analysis of B-site mixed perovskite-type oxide (La,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	92
9	Interfacial reaction and electrochemical properties of dense (La,Sr) CoO3â^'Î´ cathode on YSZ (1 0 0). Journal of Physics and Chemistry of Solids, 2005, 66, 343-348.	1.9	91
10	Defect structure analysis of B-site doped perovskite-type proton conducting oxide BaCeO3. Solid State Ionics, 2008, 179, 2240-2247.	1.3	88
11	Oxygen nonstoichiometry and thermo-chemical stability of La0.6Sr0.4Co1-yFeyO3-Î´ (y=0.2, 0.4, 0.6, 0.8). Solid State Ionics, 2010, 181, 1713-1719.	1.3	84
12	Mass transport properties of Ce0.9Gd0.1O2â^'Î´ at the surface and in the bulk. Solid State Ionics, 2002, 152-153, 469-476.	1.3	81
13	Thermal and chemical lattice expansibility of La0.6Sr0.4Co1â^'Fe O3â^' (y=0.2, 0.4, 0.6 and 0.8). Solid State Ionics, 2011, 186, 37-43.	1.3	77
14	Nonstoichiometry of Ce1â^'XYXO2â^'0.5Xâ^'Î´ (X=0.1, 0.2). Solid State Ionics, 2003, 161, 181-186.	1.3	63
15	Protonic-Electronic Mixed Conduction and Hydrogen Permeation in BaCe[sub 0.9â^'x]Y[sub 0.1]Ru[sub x]O[sub 3â^'Î±]. Journal of the Electrochemical Society, 2005, 152, A488.	1.3	62
16	Oxygen nonstoichiometry of the perovskite-type oxide LaCaCrO (=0.1, 0.2, 0.3). Solid State Ionics, 2004, 174, 287-293.	1.3	60
17	Defect structure analysis of B-site doped perovskite-type proton conducting oxide BaCeO3 Part 1: The defect concentration of BaCe0.9M0.1O3â^' (M = Y and Yb). Solid State Ionics, 2009, 180, 127-131.	1.3	55
18	The effect of co-existing gases from the process of steam reforming reaction on hydrogen permeability of palladium alloy membrane at high temperatures. International Journal of Hydrogen Energy, 2007, 32, 2881-2887.	3.8	53

#	Article	IF	Citations
19	Electronic state of oxygen nonstoichiometric La2â^'xSrxNiO4+Î´ at high temperatures. Physical Chemistry Chemical Physics, 2009, 11, 3055.	1.3	52
20	Oxygen Nonstoichiometry and Thermo-Chemical Stability of Perovskite-Type La_{0.6}Sr_{0.4}Co_{1-y}Fe_yO₃₋_{Î´}(y=	1.3	52
21	Electrochemical Behaviors of Mixed Conducting Oxide Anodes for Solid Oxide Fuel Cell. Journal of the Electrochemical Society, 2008, 155, B563.	1.3	49
22	Oxygen nonstoichiometry of B-site doped LaCrO3. Solid State Ionics, 2007, 178, 307-312.	1.3	48
23	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
24	Composite Cathode of Perovskite-Related Oxides, (La,Sr)CoO[sub 3â^'Î´]â^•(La,Sr)[sub 2]CoO[sub 4â^'Î´], for Solid Oxide Fuel Cells. Electrochemical and Solid-State Letters, 2009, 12, B135.	2.2	45
25	Structural analysis of La2â^'Sr NiO4+ by high temperature X-ray diffraction. Solid State Ionics, 2010, 181, 292-299.	1.3	45
26	Reducing the chemical expansion coefficient in ceria by addition of zirconia. Energy and Environmental Science, 2013, 6, 1142.	15.6	45
27	Oxygen nonstoichiometry and thermo-chemical stability of La0.6Sr0.4CoO3â^'. Journal of Solid State Chemistry, 2013, 197, 38-45.	1.4	42
28	Surface reaction of hydrogen on a palladium alloy membrane under co-existence of H2OH2O, CO, CO2CO2 or CH4CH4â~†. International Journal of Hydrogen Energy, 2007, 32, 4023-4029.	3.8	41
29	Thermo-chemical lattice expansion in La0.6Sr0.4Co1â^'yFeyO3â^'Î´. Solid State Ionics, 2013, 241, 12-16.	1.3	41
30	Oxygen nonstoichiometry of the perovskite-type oxides BaCe0.9M0.1O3â^' (M Y, Yb, Sm, Tb, and Nd). Solid State Ionics, 2008, 179, 529-535.	1.3	40
31	Lattice creation and annihilation of LaMnO3+Î´ caused by nonstoichiometry change. Solid State Ionics, 2002, 154-155, 257-263.	1.3	39
32	Thermally-induced and chemically-induced structural changes in layered perovskite-type oxides Nd2â^'Sr NiO4+ (x= 0, 0.2, 0.4). Solid State Ionics, 2010, 181, 402-411.	1.3	39
33	Electrical properties and defect structure of niobia-doped ceria. Solid State Ionics, 2004, 175, 341-344.	1.3	38
34	The crystal structure, oxygen nonstoichiometry and chemical stability of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ (BSCF). Physical Chemistry Chemical Physics, 2014, 16, 7307.	1.3	38
35	Effect of Nb doping on the chemical stability of BSCF-based solid solutions. Solid State Ionics, 2014, 262, 719-723.	1.3	37
36	Electronic structure of proton conducting BaCe0.90Y0.10O3â^'Î´. Solid State Ionics, 2005, 176, 2967-2970.	1.3	32

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37	Electrode reaction and microstructure of La0.6Sr0.4CoO3â^'Î´ thin films. Solid State Ionics, 2006, 177, 1961-1964.	1.3	32
38	Electrical conductivity, Seebeck coefficient, and defect structure of oxygen nonstoichiometric Nd2â^'Sr NiO4+. Materials Chemistry and Physics, 2010, 122, 250-258.	2.0	30
39	Hydrogen permeability in (CeO2)0.9(GdO1.5)0.1 at high temperatures. Solid State Ionics, 2003, 159, 135-141.	1.3	29
40	Hydrogen permeability of YSZ single crystals at high temperatures. Solid State Ionics, 2004, 171, 61-67.	1.3	26
41	Microscopic observation of oxygen reaction pathway on high temperature electrode materials. Solid State Ionics, 2006, 177, 3081-3086.	1.3	26
42	Hydrogen permeability and electrical properties in oxide compositesâ˜†. Solid State Ionics, 2008, 178, 1663-1667.	1.3	26
43	An Oxygen Negative Ion Source of a New Concept Using Solid Oxide Electrolytes. Journal of the Electrochemical Society, 2003, 150, E117.	1.3	25
44	Chemical stability of La1â^'xSrxCrO3 in oxidizing atmospheres. Journal of Solid State Chemistry, 2004, 177, 4112-4118.	1.4	25
45	Electrical Conductivity and Oxygen Diffusivity of Perovskite-Type Solid Solution La_{0.6}Sr_{0.4}Co_{1-y}Fe_yO_{3-Î´} (y=0.2, 0.4, 0.5, 0.6,) Tj 6.5Q1 1 0.784314	2.5	
46	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
47	Thermodynamic analyses of structural phase transition of Pr2NiO4+Î´ involving variation of oxygen content. Thermochimica Acta, 2014, 575, 129-134.	1.2	25
48	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
49	Effect of Y2O3 addition on the conductivity and elastic modulus of (CeO2)1â^'x(YO1.5)x. Solid State Ionics, 2009, 180, 1220-1225.	1.3	22
50	Oxygen nonstoichiometry and chemical stability of Nd2â^'Sr NiO4+. Journal of Solid State Chemistry, 2009, 182, 1533-1537.	1.4	22
51	Selfâ€modification of Ni Metal Surfaces with CeO₂ to Suppress Carbon Deposition at Solid Oxide Fuel Cell Anodes. Fuel Cells, 2017, 17, 402-406.	1.5	21
52	In situ XRD study on oxygen-excess LaMnO3. Solid State Ionics, 2004, 175, 383-386.	1.3	20
53	Electrochemical Impedance Spectroscopy of High-Efficiency Hydrogen Membrane Fuel Cells Based on Sputter-Deposited BaCe_{0.8}Y_{0.2}O_{3â^'Î´} Thin Films. Journal of Physical Chemistry C, 2016, 120, 15976-15985.	1.5	20
54	Performance and stability analysis of SOFC containing thin and dense gadolinium-doped ceria interlayer sintered at low temperature. Journal of Materiomics, 2022, 8, 347-357.	2.8	20

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55	The atomic hydrogen permeability in (CeO2)0.85(CaO)0.15 at high temperatures. Solid State Ionics, 2001, 145, 365-370.	1.3	19
56	Electronic Structure of Protonic Conductor BaCe0.90Y0.10O3-Î´Probed by Soft-X-Ray Spectroscopy. Japanese Journal of Applied Physics, 2004, 43, L731-L734.	0.8	19
57	Mechanical Damage Evaluation of Solid Oxide Fuel Cells under Simulated Operating Conditions. Journal of the Ceramic Society of Japan, 2005, 113, 562-564.	1.3	19
58	Nondestructive depthâ€resolved chemical state analysis of (La,Sr)MnO₃ film under high temperature. Surface and Interface Analysis, 2010, 42, 1650-1654.	0.8	18
59	Defect chemical and statistical thermodynamic studies on oxygen nonstoichiometric Nd2â^'Sr NiO4+. Solid State Ionics, 2009, 180, 1406-1413.	1.3	17
60	Thermodynamic quantities and defect equilibrium in La2â^'Sr NiO4+. Journal of Solid State Chemistry, 2009, 182, 1121-1128.	1.4	17
61	Multiscale Simulation of Electro-Chemo-Mechanical Coupling Behavior of PEN Structure under SOFC Operation. ECS Transactions, 2011, 35, 923-933.	0.3	17
62	Crystal structure and thermal expansion behavior of oxygen stoichiometric lanthanum strontium manganite at high temperature. Solid State Ionics, 2014, 256, 83-88.	1.3	16
63	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
64	High Temperature Schottky Barrier on n-Type SrTiO3 and Its Sensitivity to Ambient Gases. Journal of Electroceramics, 2004, 13, 715-719.	0.8	15
65	The influence of grain boundary on the conductivity of donor doped SrTiO3. Solid State Ionics, 2006, 177, 2555-2559.	1.3	15
66	Nonstoichiometry of the perovskite-type solid solution La0.9Ca0.1Cr1â^'yAlyO3â^'Î´. Solid State Ionics, 2006, 177, 1925-1928.	1.3	15
67	Electrical Properties of Nb-Doped SrTiO[sub 3] Ceramics with Excess TiO[sub 2] for SOFC Anodes and Interconnects. Journal of the Electrochemical Society, 2008, 155, B16.	1.3	15
68	Reaction kinetics on platinum electrode / yttrium-doped barium cerate interface under H2â€“H2O atmosphere. Solid State Ionics, 2010, 181, 240-248.	1.3	15
69	Evaluation of electrochemical properties of LaNi0.6Fe0.4O3â^' - Ce0.9Gd0.1O1.95 composite as air electrode for SOFC. Solid State Ionics, 2019, 332, 70-76.	1.3	15
70	Phase stability of La1â^'xCaxCrO3â^'Î´ in oxidizing atmosphere. Journal of Solid State Chemistry, 2003, 170, 68-74.	1.4	14
71	Slow relaxation kinetics of Sr(Zr, Y)O3 in wet atmosphere. Solid State Ionics, 2008, 179, 851-854.	1.3	14
72	Thermal Properties of Perovskite-Type Oxides La_{0.6}Sr_{0.4}Co_{1-X}Fe_xO_{3-Î´} (0 â‰¤ x â‰¤ 1.0). ECS Transactions, 2016, 72, 105-110.	0.3	14

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73	Hydrogen isotope sensor using high temperature proton conductors. Solid State Ionics, 2004, 175, 491-495.	1.3	12
74	Oxide ion and electron transport properties in lanthanum silicate oxyapatite ceramics. Solid State Ionics, 2014, 262, 555-558.	1.3	12
75	Promotion of Oxygen Surface Reaction at the Hetero-Interface of (La,Sr)CoO3 / (La,Sr)2CoO4. ECS Transactions, 2007, 7, 1055-1060.	0.3	11
76	Simulation of oxygen diffusion process on electrical conductivity relaxation. Solid State Ionics, 2014, 262, 696-700.	1.3	11
77	Determination of oxygen surface exchange constant of LaNi0.6Fe0.4O3â^Î´ coated with Ce0.9Gd0.1O1.95 by isotope exchange technique. Solid State Ionics, 2016, 286, 19-23.	1.3	11
78	Simulation Technology on SOFC Durability With an Emphasis on Conductivity Degradation of ZrO2-Base Electrolyte. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	1.1	11
79	Simulation of ferroelastic phase formation using phase-field model. International Journal of Mechanical Sciences, 2018, 146-147, 462-474.	3.6	11
80	Application of FT-IR for in situ investigation of high temperature electrode reactions. Solid State Ionics, 2005, 176, 2399-2403.	1.3	10
81	Electrode Performance at Hetero-interface of Perovskite-related Oxides, (La, Sr)CoO3-Î´ / (La, Sr)2CoO4-Î´. ECS Transactions, 2007, 7, 1287-1292.	0.3	10
82	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
83	Oxygen reduction reaction process of LaNi0.6Fe0.4O3â^' film â€“ porous Ce0.9Gd0.1O1.95 heterostructure electrode. Solid State Ionics, 2017, 312, 80-87.	1.3	10
84	Mixed Protonic-Electronic Conduction Properties of SrZr_{0.9â^'}_xY_{0.1}Ru_xO_{3â^'}_{Î´}. Electrochemistry, 2004, 72, 861-864.	1.0	10
85	Oxygen Nonstoichiometry, Crystal Structure, and Mechanical Properties of La2NiO4+Î´. ECS Transactions, 2009, 25, 2573-2580.	0.3	9
86	Defect structure analysis of proton-oxide ion mixed conductor BaCe0.9Nd0.1O3â^'Î´. Solid State Ionics, 2010, 181, 1336-1343.	1.3	9
87	Ferroelastic Domain Reorientations and Its Influence on Mechanical Properties of La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-Î´}. Journal of the Electrochemical Society, 2014, 161, F3079-F3083.	1.3	9
88	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
89	Nb-Doped SrTiO3-Based High-Temperature Schottky Solar Cells. Japanese Journal of Applied Physics, 2005, 44, 8023-8026.	0.8	8
90	Classification of Mechanical Failure in SOFC and Strategy for Evaluation of Operational Margin. ECS Transactions, 2009, 25, 467-472.	0.3	8

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91	High Temperature Defect Equilibrium, Solid State Properties and Crystal Structure of La_{0.6}Sr_{0.4}Co_{1-y}Fe_yO_{3-Î´} (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
92	Oxygen Nonstoichiometry of Perovskite-type La_{0.6}Sr_{0.4}Co_{1-y}Fe_yO_{3-Î´} (y=0, 0.2, 0.4, 0.5,) Tj ETQq0 0 0 rgBT /Overlo	0.3	8
93	Electrical conductivity and chemical diffusion in Perovskite-type proton conductors in H2â€“H2O gas mixtures. Solid State Ionics, 2011, 192, 76-82.	1.3	8
94	Oxygen Transport in Perovskite Type Oxide La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-Î´}. ECS Transactions, 2013, 50, 37-42.	0.3	8
95	Conduction Properties and Ionic Transference Behavior of CaTi_{1-X}Sc_xO_{3-Î´} (x=0.05, 0.1). ECS Transactions, 2014, 61, 151-157.	0.3	8
96	Analysis of structural phase transition behavior of Ln2NiO4+ (Ln: Nd, Pr) with variation of oxygen content. Solid State Ionics, 2014, 262, 724-727.	1.3	8
97	Development of in situ soft X-ray absorption spectroscopic technique under high temperature and controlled atmosphere. Solid State Ionics, 2014, 262, 911-913.	1.3	8
98	Emission Characteristics of O- Ions from a Bare Surface of Yttria-Stabilized Zirconia (YSZ) at Elevated Temperatures. Japanese Journal of Applied Physics, 2002, 41, L657-L659.	0.8	7
99	Effect of Electrochemical Polarization on the Emission of O[sup â^’] Ions from the Surface of YSZ. Journal of the Electrochemical Society, 2003, 150, E543.	1.3	7
100	Catalytic chemical potential shift on the surface of nonstoichiometric oxides under non-equilibrium gas atmosphere. Solid State Ionics, 2005, 176, 2411-2416.	1.3	7
101	Emission characteristics of Fâ^’ ions into vacuum from CaF2. Solid State Ionics, 2006, 177, 1601-1605.	1.3	7
102	Defect equilibrium and electron transport in the bulk of single crystal SrTi1â^’Nb O3 (x= 0.01, 0.001,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.3	7
103	Transient shift of local oxygen potential in nonstoichiometric oxides upon application of mechanical stress. Journal of Electroceramics, 2014, 32, 78-85.	0.8	7
104	Tailoring the chemical stability of cobalt-rich perovskite mixed conductor. Solid State Ionics, 2016, 288, 2-5.	1.3	7
105	(Invited) Triple Phase Boundary Reaction in a Mixed-Conducting SOFC Cathode. ECS Transactions, 2017, 77, 41-47.	0.3	7
106	Numerical simulations of non-stationary distributions of electrochemical potentials in SOFC. Engineering Computations, 2017, 34, 1956-1988.	0.7	7
107	Determination of relevant factors affecting the surface oxygen exchange coefficient of solid oxide fuel cell cathode with ionic conducting oxide coating. Solid State Ionics, 2020, 353, 115372.	1.3	7
108	Influences of Ni content and porosity on mechanical properties of Niâ€“YSZ composites under solid oxide fuel cell operating conditions. Journal of Materials Science, 2020, 55, 8679-8693.	1.7	7

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109	Modulating Reaction Pathways on Perovskite Cobaltite Nanofibers through Excessive Surface Oxygen Defects for Efficient Water Oxidation. Energy & Fuels, 2021, 35, 13967-13974.	2.5	7
110	Relationship between microstructure and deformation of porous Ni-based cermets under redox cycling. SN Applied Sciences, 2021, 3, 1.	1.5	7
111	Emission characteristics of negative oxygen ions into vacuum from cerium oxide. Journal of Alloys and Compounds, 2006, 408-412, 1127-1131.	2.8	6
112	Microstructural Changes of Ni/YSZ Cermet under Repeated Redox Reaction in Environmental Scanning Electron Microscope (ESEM). ECS Transactions, 2007, 7, 1373-1380.	0.3	6
113	Direct Evaluation of Oxygen Chemical Potential Distribution in an SOFC Cathode by In Situ X-Ray Absorption Spectroscopy. ECS Transactions, 2013, 57, 1925-1932.	0.3	6
114	Oxygen Nonstoichiometry and Electrochemical Properties of LaNiO_{3-Î´}. ECS Transactions, 2015, 66, 177-183.	0.3	6
115	Ionic Conductivity in Uniaxial Micro Strain/Stress Fields of Yttria-Stabilized Zirconia. Japanese Journal of Applied Physics, 2011, 50, 055803.	0.8	6
116	Electronic Structure in the Band-Gap Region of Protonic Conductor SrZr0.90Y0.10O3-Î´. Japanese Journal of Applied Physics, 2004, 43, 5419-5420.	0.8	5
117	Electronic structure of protonic conductor SrZr0.90M0.10O3 (M=Y3+, Sc3+) probed by soft-X-ray spectroscopy. Solid State Ionics, 2005, 176, 2435-2438.	1.3	5
118	Carbon Deposition and Electrochemical Reaction of Anode for SOFC in Methane Containing Atmosphere. ECS Transactions, 2009, 16, 213-218.	0.3	5
119	High-Temperature Defect and Crystal Structure of Perovskite Type Oxide Ion Conductor La0.8Sr0.2Ga0.8Mg0.15Co0.05O3-Î´. ECS Transactions, 2009, 25, 1701-1708.	0.3	5
120	High-Temperature Gravimetric Study on the Kinetics of the Formation of SrTiO₃ by Solid State Reaction of SrCO₃ and TiO₂. ECS Transactions, 2009, 16, 205-210.	0.3	5
121	Conductivities and Seebeck Coefficients of donor-doped-SrTiO₃ Oxide Ceramics. ECS Transactions, 2009, 25, 2631-2638.	0.3	5
122	Electrochemical Performance and Reaction Mechanism of LaNi_{0.6}Fe_{0.4}O_{3-Î´} â€“ Ce_{0.9}Gd_{0.1}O_{1.95} Composite Electrode for Solid Oxide Fuel Cell. ECS Transactions, 2013, 57, 1873-1878.	0.3	5
123	Electrochemical Study of LaNi_{0.6}Fe_{0.4}O_{3-Î´}Film Electrode. Journal of the Electrochemical Society, 2015, 162, F1445-F1450.	1.3	5
124	Oxygen nonstoichiometry and transport properties of LaNi0.6Co0.4O3â^'. Solid State Ionics, 2016, 292, 52-58.	1.3	5
125	Electrochemical performance of LaNi0.6Co0.4O3-Î´â€“Ce0.9Gd0.1O1.95 composite electrode and evaluation of its effective reaction length. Journal of Solid State Electrochemistry, 2018, 22, 3955-3963.	1.2	5
126	Electrical properties of the surface layer formed on the Nb-doped SrTiO3 single crystal at low temperatures. Solid State Ionics, 2004, 175, 431-435.	1.3	4

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127	A Concept of Chemical Potential Pumping Effect of Nonstoichiometric Oxides and the NOx Sensing Mechanism of the Perovskite-Type La0.5Sr0.5FeO3. Electrochemistry, 2006, 74, 949-955.	0.6	4
128	Conductivity Variation of Yttria-Stabilized Zirconia Under Stress. ECS Transactions, 2009, 16, 125-132.	0.3	4
129	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
130	Ionic Conductivity in Uniaxial Micro Strain/Stress Fields of Yttria-Stabilized Zirconia. Japanese Journal of Applied Physics, 2011, 50, 055803.	0.8	4
131	Mechanism of Chromium Poisoning in SOFC Cathode Investigated by Using Pattern Thin Film Model Electrode. ECS Transactions, 2017, 78, 965-970.	0.3	4
132	Effects of temperature and hydrogen concentration during reduction on deformation behavior of NiO- yttria stabilized zirconia used in solid oxide fuel cells. Journal of Power Sources, 2022, 535, 231384.	4.0	4
133	Continuous emission of Oâ^' ions into a vacuum from a bare surface of yttria-stabilized zirconia at elevated temperatures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1818-1822.	0.9	3
134	Electrical conduction and mass transport properties of SrZr0.99Fe0.01O3â^'Î´. Solid State Ionics, 2010, 181, 868-873.	1.3	3
135	High-Temperature Protonic Conduction in LaFeO[sub 3]â€“SrFeO[sub 3â^'Î´]â€“SrZrO[sub 3] Solid Solutions. Journal of the Electrochemical Society, 2011, 158, B180.	1.3	3
136	Oxygen Nonstoichiometry of Ce0.6La0.4O2-Â. ECS Transactions, 2013, 57, 1125-1133.	0.3	3
137	Effect of Mechanical Stress on Oxygen Potential of Transition Metal Oxides. Journal of the Electrochemical Society, 2014, 161, F3111-F3116.	1.3	3
138	The Origin of Instability of Lanthanum Strontium Cobalt Ferrite (Laâ€“Srâ€“Coâ€“Feâ€“O; LSCF) under Oxygen Potential Gradient. ECS Transactions, 2017, 75, 1-9.	0.3	3
139	Electronic conduction mechanism and defect chemical model of LaNi0.4Fe0.6O3â^'. Solid State Ionics, 2017, 310, 148-153.	1.3	3
140	Contribution of Triple-Phase Boundary Reaction in Cathodic Reaction of Solid Oxide Fuel Cell. ECS Transactions, 2017, 78, 847-853.	0.3	3
141	Material Development Strategy of Lightweight Solid Oxide Fuel Cells for Airplane System Electrification. ECS Transactions, 2019, 91, 311-318.	0.3	3
142	Electronic Properties and Oxygen Nonstoichiometry of Mixed-conducting Oxide La1-Ï‡SrÏ‡CoO3-Î´ Thin Films at High Temperature. ECS Transactions, 2009, 16, 311-316.	0.3	2
143	Electrical Conductivity and Thermoelectric Power of La2-xSrxNiO4+Î´. ECS Transactions, 2009, 16, 317-325.	0.3	2
144	Development of In-Situ Mechanical Testing Method for SOFC Components. , 2010, , .		2

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145	In situ Observation of the Deformation and Mechanical Damage of SOFC Cell/Stack. ECS Transactions, 2011, 35, 225-229.	0.3	2
146	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
147	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
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