Sun-Ju Song

List of Publications by Year
in descending order

131 papers	2,311 citations	186265 28 h-index	315739 38 g-index
131 all docs	131 docs citations	131 times ranked	1960 citing authors

#	ARTICLE	IF	CITATIONS
1	Defect chemistry modeling of high-temperature proton-conducting cerates. Solid State Ionics, 2002, 149, 1-10.	2.7	78
2	Performance of La0.1Sr0.9Co0.8Fe0.2O3âˆ’ and La0.1Sr0.9Co0.8Fe0.2O3âˆ’â€"Ce0.9Gd0.1O2 oxygen electrodes with Ce0.9Gd0.1O2 barrier layer in reversible solid oxide fuel cells. Journal of Power Sources, 2013, 239, 361-373.	7.8	78
3	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. Journal of Alloys and Compounds, 2015, 639, 435-444.	5.5	57
4	Transition from perovskite to misfit-layered structure materials: a highly oxygen deficient and stable oxygen electrode catalyst. Energy and Environmental Science, 2021, 14, 2472-2484.	30.8	53
5	Transition metal oxide (Ni, Co, Fe)-tin oxide nanocomposite sensing electrodes for a mixed-potential based NO2 sensor. Sensors and Actuators B: Chemical, 2019, 284, 534-544.	7.8	50
6	Chemical Constitution, Physical Properties, and Biocompatibility of Experimentally Manufactured Portland Cement. Journal of Endodontics, 2011, 37, 58-62.	3.1	49
7	Ultrahigh-sensitive mixed-potential ammonia sensor using dual-functional NiWO4 electrocatalyst for exhaust environment monitoring. Journal of Hazardous Materials, 2021, 403, 123797.	12.4	48
8	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. Journal of Power Sources, 2015, 275, 563-572.	7.8	47
9	Performance of Proton-conducting Ceramic-electrolyte Fuel Cell with BZCY40 electrolyte and BSCF5582 cathode. Ceramics International, 2016, 42, 3776-3785.	4.8	44
10	Electrochemical Impedance Analysis of SOFC with Transmission Line Model Using Distribution of Relaxation Times (DRT). Journal of the Electrochemical Society, 2020, 167, 114504.	2.9	44
11	Studies on Ionic Conductivity of Sr²⁺-Doped CeP₂O₇ Electrolyte in Humid Atmosphere. Journal of Physical Chemistry C, 2013, 117, 2653-2661.	3.1	43
12	Determination of partial conductivities and computational analysis of the theoretical power density of BaZr_{0.1}Ce_{0.7}Y_{0.1}Yb_{0.1}O_{3âˆ’Î´}(BZCYYb1711) electrolyte under various PCFC conditions. Journal of Materials Chemistry A, 2019, 7, 21321-21328.	10.3	43
13	Pyro-Synthesis of Functional Nanocrystals. Scientific Reports, 2012, 2, 946.	3.3	42
14	Effect of oxygen vacancies on electrical conductivity of La_{0.5}Sr_{0.5}FeO_{3âˆ’Î´} from first-principles calculations. Journal of Materials Chemistry A, 2020, 8, 4784-4789.	10.3	41
15	Synergistic enhancement in the sensing performance of a mixed-potential NH3 sensor using SnO2@CuFe2O4 sensing electrode. Sensors and Actuators B: Chemical, 2020, 308, 127748.	7.8	40
16	Effect of humidification on the performance of intermediate-temperature proton conducting ceramic fuel cells with ceramic composite cathodes. Journal of Power Sources, 2013, 232, 224-233.	7.8	37
17	Robust NdBa0.5Sr0.5Co1.5Fe0.5O5+Î´ cathode material and its degradation prevention operating logic for intermediate temperature-solid oxide fuel cells. Journal of Power Sources, 2016, 331, 495-506.	7.8	37
18	One step infiltration induced multi-cation oxide nanocatalyst for load proof SOFC application. Applied Catalysis B: Environmental, 2020, 267, 118374.	20.2	37

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19	An Enhanced High-Rate Na₃V₂(PO₄)₃-Ni₂P Nanocomposite Cathode with Stable Lifetime for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 35235-35242.	8.0	35
20	Investigations on Electrochemical Performance of a Proton-Conducting Ceramic-Electrolyte Fuel Cell with La_{0.8}Sr_{0.2}MnO₃Cathode. Journal of the Electrochemical Society, 2015, 162, F547-F554.	2.9	34
21	Water as a hole-predatory instrument to create metal nanoparticles on triple-conducting oxides. Energy and Environmental Science, 2022, 15, 1097-1105.	30.8	33
22	Electrochemical hydrogen charge and discharge properties of La0.1Sr0.9Co1â^’Fe O3â^’ (y= 0, 0.2, 1) electrodes in alkaline electrolyte solution. Electrochimica Acta, 2013, 102, 393-399.	5.2	31
23	Steam/CO₂Co-Electrolysis Performance of Reversible Solid Oxide Cell with La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-Î´}-Gd_{0.1}Ce_{0.9}O<s Electrode. Journal of the Electrochemical Society, 2015, 162, F54-F59.	2.9	31
24	Sensing Performance of a YSZ-Based Electrochemical NO₂ Sensor Using Nanocomposite Electrodes. Journal of the Electrochemical Society, 2019, 166, B799-B804.	2.9	31
25	Enhancing Gas Response Characteristics of Mixed Metal Oxide Gas Sensors. Journal of the Korean Ceramic Society, 2018, 55, 1-20.	2.3	31
26	PdO-doped BaZr0.8Y0.2O3â^’Î´ electrolyte for intermediate-temperature protonic ceramic fuel cells. Acta Materialia, 2014, 66, 273-283.	7.9	30
27	Surface decorated spinel-oxide electrodes for mixed-potential ammonia sensor: Performance and DRT analysis. Journal of Hazardous Materials, 2020, 396, 122601.	12.4	30
28	Structural, thermal and mechanical properties of aluminum nitride ceramics with CeO2 as a sintering aid. Ceramics International, 2016, 42, 11519-11524.	4.8	29
29	Influence of sintering temperature on the physical, electrochemical and sensing properties of Î±-Fe2O3-SnO2 nanocomposite sensing electrode for a mixed-potential type NOx sensor. Ceramics International, 2019, 45, 2309-2318.	4.8	29
30	Structural and electrical properties of novel phosphate based composite electrolyte for low-temperature fuel cells. Composites Part B: Engineering, 2020, 202, 108405.	12.0	29
31	Highly conductive barium zirconate-based carbonate composite electrolytes for intermediate temperature-protonic ceramic fuel cells. Journal of Alloys and Compounds, 2014, 585, 103-110.	5.5	27
32	Electrical and physical properties of composite BaZr0.85Y0.15O3â^’d-Nd0.1Ce0.9O2â^’Î´ electrolytes for intermediate temperature-solid oxide fuel cells. Journal of Power Sources, 2016, 336, 437-446.	7.8	27
33	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. Journal of Power Sources, 2015, 276, 120-132.	7.8	26
34	Electrical Behavior of CeP2O7Electrolyte for the Application in Low-Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2012, 159, F819-F825.	2.9	25
35	La2NiO4+Î´ as oxygen electrode in reversible solid oxide cells. Ceramics International, 2015, 41, 6448-6454.	4.8	25
36	Triple perovskite structured Nd1.5Ba1.5CoFeMnO9â^’ oxygen electrode materials for highly efficient and stable reversible protonic ceramic cells. Journal of Power Sources, 2021, 510, 230409.	7.8	24

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37	Addition effects of erbia-stabilized bismuth oxide on ceria-based carbonate composite electrolytes for intermediate temperature-â˜solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 16823-16834.	7.1	23
38	Investigation of Oxygen Reduction Reaction on La_{0.1}Sr_{0.9}Co_{0.8}Fe_{0.2}O_{3-Î´}Electrode by Electrochemical Impedance Spectroscopy. Journal of the Electrochemical Society, 2015, 162, F728-F735.	2.9	22
39	Anchoring of Ni₁₂P₅ Microbricks in Nitrogen- and Phosphorus-Enriched Carbon Frameworks: Engineering Bifunctional Active Sites for Efficient Water-Splitting Systems. ACS Sustainable Chemistry and Engineering, 2022, 10, 1182-1194.	6.7	22
40	Fabrication of Thinâ€Film SrCe_{0.9}Eu_{0.1}O_{3â^'Î´} Hydrogen Separation Membranes on Niâ€"SrCeO₃ Porous Tubular Supports. Journal of the American Ceramic Society, 2009, 92, 1849-1852.	3.8	21
41	Ionic Conductivity of Gd³⁺Doped Cerium Pyrophosphate Electrolytes with Core-Shell Structure. Journal of the Electrochemical Society, 2014, 161, F464-F472.	2.9	20
42	Effect of MnO doping in tetravalent metal pyrophosphate (MP2O7; M=Ce, Sn, Zr) electrolytes. Ceramics International, 2016, 42, 2983-2989.	4.8	20
43	Investigations on Defect Equilibrium, Thermodynamic Quantities, and Transport Properties of La_{0.5}Sr_{0.5}FeO_{3-Î´}. Journal of the Electrochemical Society, 2019, 166, F180-F189.	2.9	20
44	Degradation studies of ceria-based solid oxide fuel cells at intermediate temperature under various load conditions. Journal of Power Sources, 2020, 452, 227758.	7.8	20
45	A thermodynamically stable La2NiO4+Î´/ Gd0.1Ce0.9O1.95 bilayer oxygen transport membrane in membrane-assisted water splitting for hydrogen production. Ceramics International, 2013, 39, 3893-3899.	4.8	19
46	Study of Hydration/Dehydration Kinetics of SOFC Cathode Material Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-Î´}by Electrical Conductivity Relaxation Technique. Journal of the Electrochemical Society, 2013, 160, F764-F768.	2.9	19
47	Synthesis of Proton-Conducting, In-Doped SnP[sub 2]O[sub 7] Core-Shell-Structured Nanoparticles by Coprecipitation. Journal of the Electrochemical Society, 2009, 156, E23.	2.9	18
48	Highly Sensitive/Selective Miniature Potentiometric Carbon Monoxide Gas Sensors with Titaniaâ€Based Sensing Elements. Journal of the American Ceramic Society, 2010, 93, 1062-1068.	3.8	18
49	Effectiveness of Protonic Conduction in Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'Î´}Cathode in Intermediate Temperature Proton-Conducting Ceramic-Electrolyte Fuel Cell. Journal of the Electrochemical Society, 2014, 161, F754-F760.	2.9	18
50	Titaniaâ€Based Miniature Potentiometric Carbon Monoxide Gas Sensors with High Sensitivity. Journal of the American Ceramic Society, 2010, 93, 742-749.	3.8	17
51	Electrical conductivity of M2+-doped (M = Mg, Ca, Sr, Ba) cerium pyrophosphate-based composite electrolytes for low-temperature proton conducting electrolyte fuel cells. Journal of Alloys and Compounds, 2013, 578, 279-285.	5.5	17
52	Effects of electronic probeâ€™s architecture on the sensing performance of mixed-potential based NOX sensor. Sensors and Actuators B: Chemical, 2019, 282, 426-436.	7.8	17
53	The role of surface lattice defects of CeO2â^'Î´ nanoparticles as a scavenging redox catalyst in polymer electrolyte membrane fuel cells. Journal of Materials Chemistry A, 2020, 8, 26023-26034.	10.3	17
54	Transport properties of BaCe0.85Y0.15O3â^'Î´ at closed-cycle refrigerator temperature. Ceramics International, 2009, 35, 1769-1773.	4.8	16

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55	Ionic conductivity of Mn2+ doped dense tin pyrophosphate electrolytes synthesized by a new co-precipitation method. Journal of the European Ceramic Society, 2014, 34, 2967-2976.	5.7	16
56	Mixed prontonâ€“electron conducting properties of Yb doped strontium cerate. Journal of Materials Science, 2007, 42, 6177-6182.	3.7	15
57	Hydrogen separation by dual functional cermet membranes with self-repairing capability against the damage by H2S. Journal of Membrane Science, 2013, 428, 46-51.	8.2	15
58	Charge and Mass Transport Properties of BaCe_{0.45}Zr_{0.4}Y_{0.15}O_{3-Î´}. Journal of the Electrochemical Society, 2014, 161, F710-F716.	2.9	15
59	Fast ionic conduction in tetravalent metal pyrophosphate-alkali carbonate composites: New potential electrolytes for intermediate-temperature fuel cells. Journal of Power Sources, 2017, 345, 176-181.	7.8	15
60	High temperature polymer electrolyte membrane fuel cells with Polybenzimidazole-Ce0.9Gd0.1P2O7 and polybenzimidazole-Ce0.9Gd0.1P2O7-graphite oxide composite electrolytes. Journal of Power Sources, 2018, 401, 149-157.	7.8	15
61	Conductivity Relaxation in Mixed Perovskite-Type Oxide Ba3Ca1.18Nb1.82O8.73upon Oxidation/Reduction and Hydration/Dehydration. Journal of the Electrochemical Society, 2013, 160, F623-F628.	2.9	14
62	Mn2+-Doped CeP2O7Composite Electrolytes for Application in Low Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F133-F138.	2.9	14
63	Dependence of H₂O/CO₂Co-Electrolysis Performance of SOEC on Microstructural and Thermodynamic Parameters. Journal of the Electrochemical Society, 2016, 163, F728-F736.	2.9	14
64	Hydration of Proton-conducting BaCe0.9Y0.1O3â^'Î´ by Decoupled Mass Transport. Scientific Reports, 2017, 7, 486.	3.3	13
65	Correlation between defect structure and electrochemical properties of mixed conducting La0.1Sr0.9Co0.8Fe0.2O3â^'. Acta Materialia, 2014, 65, 373-382.	7.9	12
66	Enhanced mixed potential NOx gas response performance of surface modified and NiO nanoparticles infiltrated solid-state electrochemical-based NiO-YSZ composite sensing electrodes. Sensors and Actuators B: Chemical, 2018, 262, 664-677.	7.8	12
67	Thermodynamic Quantities and Defect Chemical Properties of La0.8Sr0.2FeO3-Î´. Journal of the Electrochemical Society, 2018, 165, F641-F651.	2.9	12
68	A Facile Combustion Synthesis Route for Performance Enhancement of La0.6Sr0.4Co0.2Fe0.8O3-Î´ (LSCF6428) as a Robust Cathode Material for IT-SOFC. Journal of the Korean Ceramic Society, 2019, 56, 497-505.	2.3	12
69	Preparation of Asymmetric Tubular Oxygen Separation Membrane with Oxygen Permeable Pr2Ni0.75Cu0.25Ga0.05O4+Î´. International Journal of Applied Ceramic Technology, 2011, 8, 800-808.	2.1	11
70	Oxygen excess nonstoichiometry and thermodynamic quantities of La2NiO4â€‰+â€‰Î´. Journal of Solid State Electrochemistry, 2012, 16, 785-793.	2.5	11
71	Dense composite electrolytes of Gd3+-doped cerium phosphates for low-temperature proton-conducting ceramic-electrolyte fuel cells. Ceramics International, 2015, 41, 4814-4821.	4.8	11
72	A chemically and mechanically stable dual-phase membrane with high oxygen permeation flux. Journal of Materials Chemistry A, 2020, 8, 23884-23893.	10.3	11

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73	Oxygen Non-Stoichiometry and Thermal?Chemical Expansion of Ce0.8Y0.2O1.9??Electrolytes by Neutron Diffraction. Journal of the American Ceramic Society, 2007, 90, 1208-1214.	3.8	10
74	Charge and mass transport properties of La2Ni0.95Al0.05O4.025+. Journal of Alloys and Compounds, 2014, 589, 572-578.	5.5	10
75	Fabrication of Dense Cerium Pyrophosphate-Polystyrene Composite for Application as Low-Temperature Proton-Conducting Electrolytes. Journal of the Electrochemical Society, 2015, 162, F1159-F1164.	2.9	10
76	Effect of partial substitution of Sn4+ by M4+ (M=Si, ti, and Ce) on sinterability and ionic conductivity of SnP2O7. Ceramics International, 2015, 41, 3339-3343.	4.8	10
77	Evaluation of the effects of nanocatalyst infiltration on the SOFC performance and electrode reaction kinetics using the transmission line model. Journal of Materials Chemistry A, 2020, 8, 23473-23487.	10.3	10
78	Impact of CeO₂ Nanoparticle Morphology: Radical Scavenging within the Polymer Electrolyte Membrane Fuel Cell. Journal of the Electrochemical Society, 2021, 168, 114521.	2.9	10
79	Partial Conductivities and Chemical Diffusivities of Multi-Ion Transporting BaZr_xCe_{0.85-x}Y_{0.15}O_{3-Î´}(x = 0, 0.2, 0.4 and 0.6). Journal of the Electrochemical Society, 2014, 161, F991-F1001.	2.9	9
80	Fabrication of dense Ce0.9Mg0.1P2O7-PmOn composites by microwave heating for application as electrolyte in intermediate-temperature fuel cells. Ceramics International, 2018, 44, 6170-6175.	4.8	9
81	The Electrochemical Properties of Nanocrystalline Gd_{0.1}Ce_{0.9}O_{1.95}Infiltrated Solid Oxide Co-Electrolysis Cells. Journal of the Electrochemical Society, 2018, 165, F132-F141.	2.9	9
82	Novel organic-inorganic polyphosphate based composite material as highly dense and robust electrolyte for low temperature fuel cells. Journal of Power Sources, 2021, 493, 229696.	7.8	9
83	A stable and active three-dimensional carbon based trimetallic electrocatalyst for efficient overall wastewater splitting. International Journal of Hydrogen Energy, 2021, 46, 30762-30779.	7.1	9
84	Design of tin polyphosphate for hydrogen evolution reaction and supercapacitor applications. Journal of the Korean Ceramic Society, 2021, 58, 688-699.	2.3	9
85	Polyol Synthesis of Pd/Ag Alloy Nanocrystalline. Journal of the Electrochemical Society, 2010, 157, E107.	2.9	8
86	Surface exchange kinetics and chemical diffusivities of BaZr0.2Ce0.65Y0.15O3âˆ’Î´ by electrical conductivity relaxation. Journal of Alloys and Compounds, 2014, 610, 301-307.	5.5	8
87	Oxygen permeation through dense La0.1Sr0.9Co0.8Fe0.2O3âˆ’Î´ perovskite membranes: Catalytic effect of porous La0.1Sr0.9Co0.8Fe0.2O3âˆ’Î´ layers. Ceramics International, 2015, 41, 7446-7452.	4.8	8
88	Spatial Distribution of Oxygen Chemical Potential under Potential Gradients and Theoretical Maximum Power Density with 8YSZ Electrolyte. Scientific Reports, 2016, 6, 18804.	3.3	8
89	Unraveling the problem associated with multi-cation oxide formation using urea based infiltration techniques for SOFC application. Journal of Alloys and Compounds, 2021, 852, 157037.	5.5	8
90	Measurement of Partial Conductivity of 8YSZ by Hebb-Wagner Polarization Method. Journal of the Korean Ceramic Society, 2015, 52, 299-303.	2.3	8

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91	Design of Novel transition metal based multiphase stannate: An efficient electrocatalyst for oxygen evolution reaction. Materials Chemistry and Physics, 2022, 279, 125613.	4.0	8
92	Non-galvanic Hydrogen Production Using High Steam Pressure Gradients. Chemistry Letters, 2006, 35, 1068-1069.	1.3	7
93	The possible failure mode and effect analysis of membrane electrode assemblies and their potential solutions in direct methanol fuel cell systems for portable applications. International Journal of Hydrogen Energy, 2010, 35, 7982-7990.	7.1	7
94	Study of electrochemical hydrogen charge/discharge properties of FePO4 for application as negative electrodes in hydrogen batteries. Ceramics International, 2013, 39, 6559-6568.	4.8	7
95	Comparative study of an experimental Portland cement and ProRoot MTA by electrochemical impedance spectroscopy. Ceramics International, 2014, 40, 1741-1746.	4.8	7
96	Electrical Behavior and Stability of K₂HPO₄-KH₅(PO₄)₂-Ce_{0.9}Gd_{0.1}P<sub>2</ Electrolytes for Intermediate Temperature Proton-Conducting Fuel Cells. Journal of the Electrochemical Society, 2016, 163, F225-F229.	2.9	7
97	Role of surface exchange kinetics in coated zirconia dual-phase membrane with high oxygen permeability. Journal of Membrane Science, 2020, 597, 117620.	8.2	7
98	Investigation on Hydration Process and Biocompatibility of Calcium Silicate-Based Experimental Portland Cements. Journal of the Korean Ceramic Society, 2019, 56, 403-411.	2.3	7
99	Novel Design of Dual Functional Hydrogen Separation Membranes. Chemistry Letters, 2009, 38, 344-345.	1.3	6
100	Oxygen Nonstoichiometry and Thermodynamic Quantities of <scp><scp>La</scp></scp>₂<scp><scp>Ni</scp></scp>_{0.95}<scp><scp>Al</scp></scp>_{0.05}<sc Journal of the American Ceramic Society, 2014, 97, 1489-1496.	3.8	6
101	An in-situ gas chromatography investigation into the suppression of oxygen gas evolution by coated amorphous cobalt-phosphate nanoparticles on oxide electrode. Scientific Reports, 2016, 6, 23394.	3.3	6
102	Energetically-favorable distribution of oxygen vacancies and metal atoms in perovskite BaCe Zr0.85â^'Y0.15O2.925 solid solutions using a genetic algorithm and lattice statics. Computational Materials Science, 2019, 170, 109184.	3.0	6
103	Sintering and electrical behavior of ZrP2O7â€"CeP2O7 solid solutions Zr1-xCexP2O7; xâ€‰=â€‰0â€"0.2 and (Zr0.92Y0.08)1-yCeyP2O7; yâ€‰=â€‰0â€"0.1 for application as electrolyte in intermediate temperature fuel cells. Ionics, 2019, 25, 155-162.	2.4	6
104	Influence of different parameters on total fluoride concentration evaluation in ex-situ chemical degradation of nafion based membrane. Korean Journal of Chemical Engineering, 2021, 38, 2057-2063.	2.7	6
105	Role of Different Oxide to Fuel Ratios in Solution Combustion Synthesis of SnO2 Nanoparticles. Journal of the Korean Ceramic Society, 2016, 53, 122-127.	2.3	6
106	Enhanced Crystalline and Magnetic Properties of Co-Doped TiO[sub 2] Films Grown by Ultraviolet-Assisted Pulsed Laser Deposition. Electrochemical and Solid-State Letters, 2004, 7, C4.	2.2	5
107	Growth of SiCâ€"C nanocables on SiO2 films derived by gaseous composition control using Ti. Journal of Crystal Growth, 2005, 281, 556-562.	1.5	5
108	Synthesis and characterization of MnO-doped titanium pyrophosphates (Ti1-x Mn x P2O7; xÂ=Â0â€"0.2) for intermediate-temperature proton-conducting ceramic-electrolyte fuel cells. Ionics, 2017, 23, 1675-1684.	2.4	5

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109	Spatial distribution of oxygen chemical potential under potential gradients and performance of solid oxide fuel cells with Ce0.9Gd0.1O2âˆ'Î´ electrolyte. Solid State Ionics, 2018, 324, 150-156.	2.7	5
110	A new solution phase synthesis of cerium(IV) pyrophosphate compounds of different morphologies using cerium(III) precursor. Journal of Alloys and Compounds, 2019, 793, 686-694.	5.5	5
111	Defect chemistry of highly defective La0.1Sr0.9Co0.8Fe0.2O3âˆ'Î´ by considering oxygen interstitials: Effect of hole degeneracy. Solid State Ionics, 2020, 347, 115251.	2.7	5
112	Defect Structure, Transport Properties, and Chemical Expansion in Ba0.95La0.05FeO3â€“Î´. Journal of the Electrochemical Society, 2021, 168, 034511.	2.9	5
113	Proton Conducting Material Ba[sub 3]Ce(PO[sub 4])[sub 3] Synthesized by Coprecipitation. Journal of the Electrochemical Society, 2007, 154, H566.	2.9	4
114	Determination of isothermal mass and charge transport properties of La 2 NiO 4+Î´ by ion-blocking cell method. Ceramics International, 2014, 40, 16785-16790.	4.8	4
115	High Capacity, Rate-Capability, and Power Delivery at High-Temperature by an Oxygen-Deficient Perovskite Oxide as Proton Insertion Anodes for Energy Storage Devices. Journal of the Electrochemical Society, 2021, 168, 070540.	2.9	4
116	Investigation of Effect of Al3+-Doping on Mass/Charge Transport Properties of La2NiO4+Î´by Blocking Cell Method. Journal of the Electrochemical Society, 2016, 163, F1302-F1307.	2.9	3
117	Defect Chemistry of Highly Defective La0.1Sr0.9Co0.8Fe0.2O3-Î´by Considering Oxygen Interstitials. Journal of the Electrochemical Society, 2016, 163, F1588-F1595.	2.9	3
118	Study of mass transport kinetics in co-doped Ba0.9Sr0.1Ce0.85Y0.15O3âˆ'Î´ by electrical conductivity relaxation. Solid State Ionics, 2016, 289, 9-16.	2.7	3
119	Cerium Pyrophosphate-based Proton-conducting Ceramic Electrolytes for Low Temperature Fuel Cells. Journal of the Korean Ceramic Society, 2014, 51, 248-259.	2.3	3
120	Annealing Effect of Cermet Membranes on Hydrogen Permeability. Chemistry Letters, 2006, 35, 1378-1379.	1.3	2
121	Study of Oxygen Nonstoichiometry and Transport in Y0.08Sr0.92Fe0.1Ti0.9O3-Î´for Application as SOFC Anode. Journal of the Electrochemical Society, 2013, 160, F1048-F1054.	2.9	2
122	Preparation and characterization of plasma-sprayed yttria stabilized zirconia as a potential substrate for NO x sensor. Ceramics International, 2017, 43, 4083-4089.	4.8	2
123	Spatial Distribution of Oxygen Chemical Potential Profile across Zr0.84Y0.16O1.92/Ce0.9Gd0.1O1.95Bilayer Electrolyte under SOFC Operating Conditions. ECS Transactions, 2017, 78, 343-348.	0.5	2
124	Effects of Yttria and Calcia Co-Doping on the Electrical Conductivity of Zirconia Ceramics. Journal of the Korean Ceramic Society, 2007, 44, 655-659.	2.3	2
125	Nonideal defect structure and high-temperature transport properties of misfit-layered cobalt oxide. Journal of Solid State Chemistry, 2022, 313, 123299.	2.9	2
126	Isothermal Charge Transport Properties of La_{0.1}Sr_{0.9}Co_{0.8}Fe_{0.2}O_{3-Î´}by Blocking Cell Method. Journal of the Electrochemical Society, 2017, 164, F400-F404.	2.9	1

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127	Lithium Ion Conductivity and Thermodynamic Activity of Li₂O in Li_{0.23}La_{0.61}TiO₃. Chemistry Letters, 2018, 47, 1032-1035.	1.3	1
128	Mixed-Conducting Membranes for Hydrogen Production and Separation. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	0
129	Microstructure Variation of Ni-YSZ by Infiltration Using Urea Precipitation Method and Their Electrochemical Properties. ECS Transactions, 2017, 78, 1463-1468.	0.5	0
130	Pd-YSZ cermet membranes with self-repairing capability in extreme H2S conditions. Ceramics International, 2017, 43, 2291-2296.	4.8	0
131	Mixed ionic-electronic conducting (MIEC) oxide ceramics for electrochemical applications. , 2022, , 201-230.		0