

Sun-Ju Song

List of Publications by Year in descending order

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131
papers

2,311
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185998

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all docs

131
docs citations

131
times ranked

1960
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect chemistry modeling of high-temperature proton-conducting cerates. <i>Solid State Ionics</i> , 2002, 149, 1-10.	1.3	78
2	Performance of $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ and $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ - $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_2$ oxygen electrodes with $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_2$ barrier layer in reversible solid oxide fuel cells. <i>Journal of Power Sources</i> , 2013, 239, 361-373.	4.0	78
3	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. <i>Journal of Alloys and Compounds</i> , 2015, 639, 435-444.	2.8	57
4	Transition from perovskite to misfit-layered structure materials: a highly oxygen deficient and stable oxygen electrode catalyst. <i>Energy and Environmental Science</i> , 2021, 14, 2472-2484.	15.6	53
5	Transition metal oxide (Ni, Co, Fe)-tin oxide nanocomposite sensing electrodes for a mixed-potential based NO_2 sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 534-544.	4.0	50
6	Chemical Constitution, Physical Properties, and Biocompatibility of Experimentally Manufactured Portland Cement. <i>Journal of Endodontics</i> , 2011, 37, 58-62.	1.4	49
7	Ultrahigh-sensitive mixed-potential ammonia sensor using dual-functional NiWO_4 electrocatalyst for exhaust environment monitoring. <i>Journal of Hazardous Materials</i> , 2021, 403, 123797.	6.5	48
8	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. <i>Journal of Power Sources</i> , 2015, 275, 563-572.	4.0	47
9	Performance of Proton-conducting Ceramic-electrolyte Fuel Cell with BZCY40 electrolyte and BSCF5582 cathode. <i>Ceramics International</i> , 2016, 42, 3776-3785.	2.3	44
10	Electrochemical Impedance Analysis of SOFC with Transmission Line Model Using Distribution of Relaxation Times (DRT). <i>Journal of the Electrochemical Society</i> , 2020, 167, 114504.	1.3	44
11	Studies on Ionic Conductivity of Sr^{2+} -Doped CeP_2O_7 Electrolyte in Humid Atmosphere. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2653-2661.	1.5	43
12	Determination of partial conductivities and computational analysis of the theoretical power density of $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.1}\text{Yb}_{0.1}\text{O}_{3-\delta}$ (BZCYYb1711) electrolyte under various PCFC conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21321-21328.	5.2	43
13	Pyro-Synthesis of Functional Nanocrystals. <i>Scientific Reports</i> , 2012, 2, 946.	1.6	42
14	Effect of oxygen vacancies on electrical conductivity of $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_{3-\delta}$ from first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4784-4789.	5.2	41
15	Synergistic enhancement in the sensing performance of a mixed-potential NH_3 sensor using $\text{SnO}_2@\text{CuFe}_2\text{O}_4$ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127748.	4.0	40
16	Effect of humidification on the performance of intermediate-temperature proton conducting ceramic fuel cells with ceramic composite cathodes. <i>Journal of Power Sources</i> , 2013, 232, 224-233.	4.0	37
17	Robust $\text{NdBa}_{0.5}\text{Sr}_{0.5}\text{Co}_{1.5}\text{Fe}_{0.5}\text{O}_{5+\delta}$ cathode material and its degradation prevention operating logic for intermediate temperature-solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016, 331, 495-506.	4.0	37
18	One step infiltration induced multi-cation oxide nanocatalyst for load proof SOFC application. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118374.	10.8	37

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19	An Enhanced High-Rate Na ₃ V ₂ (PO ₄) ₃ -Ni ₂ P Nanocomposite Cathode with Stable Lifetime for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 35235-35242.	4.0	35
20	Investigations on Electrochemical Performance of a Proton-Conducting Ceramic-Electrolyte Fuel Cell with La _{0.8} Sr _{0.2} MnO ₃ Cathode. Journal of the Electrochemical Society, 2015, 162, F547-F554.	1.3	34
21	Water as a hole-predatory instrument to create metal nanoparticles on triple-conducting oxides. Energy and Environmental Science, 2022, 15, 1097-1105.	15.6	33
22	Electrochemical hydrogen charge and discharge properties of La _{0.1} Sr _{0.9} Co _{1-γ} Fe _{γ} O ₃ (y= 0, 0.2, 1) electrodes in alkaline electrolyte solution. Electrochimica Acta, 2013, 102, 393-399.	2.6	31
23	Steam/CO ₂ Co-Electrolysis Performance of Reversible Solid Oxide Cell with La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} -Gd _{0.1} Ce _{0.9} O ₃ Electrode. Journal of the Electrochemical Society, 2015, 162, F54-F59.		
24	Sensing Performance of a YSZ-Based Electrochemical NO ₂ Sensor Using Nanocomposite Electrodes. Journal of the Electrochemical Society, 2019, 166, B799-B804.	1.3	31
25	Enhancing Gas Response Characteristics of Mixed Metal Oxide Gas Sensors. Journal of the Korean Ceramic Society, 2018, 55, 1-20.	1.1	31
26	PdO-doped BaZr _{0.8} Y _{0.2} O _{3-δ} electrolyte for intermediate-temperature protonic ceramic fuel cells. Acta Materialia, 2014, 66, 273-283.	3.8	30
27	Surface decorated spinel-oxide electrodes for mixed-potential ammonia sensor: Performance and DRT analysis. Journal of Hazardous Materials, 2020, 396, 122601.	6.5	30
28	Structural, thermal and mechanical properties of aluminum nitride ceramics with CeO ₂ as a sintering aid. Ceramics International, 2016, 42, 11519-11524.	2.3	29
29	Influence of sintering temperature on the physical, electrochemical and sensing properties of $\text{In}_x\text{Fe}_2\text{O}_3\text{-SnO}_2$ nanocomposite sensing electrode for a mixed-potential type NO _x sensor. Ceramics International, 2019, 45, 2309-2318.	2.3	29
30	Structural and electrical properties of novel phosphate based composite electrolyte for low-temperature fuel cells. Composites Part B: Engineering, 2020, 202, 108405.	5.9	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.	2.8	27
32	Electrical and physical properties of composite BaZr _{0.85} Y _{0.15} O _{3-δ} -Nd _{0.1} Ce _{0.9} O _{2-δ} electrolytes for intermediate temperature-solid oxide fuel cells. Journal of Power Sources, 2016, 336, 437-446.	4.0	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.	4.0	26
34	Electrical Behavior of CeP ₂ O ₇ Electrolyte for the Application in Low-Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2012, 159, F819-F825.	1.3	25
35	La ₂ NiO _{4+δ} as oxygen electrode in reversible solid oxide cells. Ceramics International, 2015, 41, 6448-6454.	2.3	25
36	Triple perovskite structured Nd _{1.5} Ba _{1.5} CoFeMnO _{9-δ} oxygen electrode materials for highly efficient and stable reversible protonic ceramic cells. Journal of Power Sources, 2021, 510, 230409.	4.0	24

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37	Addition effects of erbia-stabilized bismuth oxide on ceria-based carbonate composite electrolytes for intermediate temperature- $\hat{\sim}$ solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16823-16834.	3.8	23
38	Investigation of Oxygen Reduction Reaction on $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\hat{\sim}}$ Electrode by Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2015, 162, F728-F735.	1.3	22
39	Anchoring of Ni_{12}P_5 Microbricks in Nitrogen- and Phosphorus-Enriched Carbon Frameworks: Engineering Bifunctional Active Sites for Efficient Water-Splitting Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1182-1194.	3.2	22
40	Fabrication of Thin-Film $\text{SrCe}_{0.9}\text{Eu}_{0.1}\text{O}_{3-\hat{\sim}}$ Hydrogen Separation Membranes on Ni-SrCeO_3 Porous Tubular Supports. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1849-1852.	1.9	21
41	Ionic Conductivity of Gd^{3+} -Doped Cerium Pyrophosphate Electrolytes with Core-Shell Structure. <i>Journal of the Electrochemical Society</i> , 2014, 161, F464-F472.	1.3	20
42	Effect of MnO doping in tetravalent metal pyrophosphate (MP_2O_7 ; M=Ce, Sn, Zr) electrolytes. <i>Ceramics International</i> , 2016, 42, 2983-2989.	2.3	20
43	Investigations on Defect Equilibrium, Thermodynamic Quantities, and Transport Properties of $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_{3-\hat{\sim}}$. <i>Journal of the Electrochemical Society</i> , 2019, 166, F180-F189.	1.3	20
44	Degradation studies of ceria-based solid oxide fuel cells at intermediate temperature under various load conditions. <i>Journal of Power Sources</i> , 2020, 452, 227758.	4.0	20
45	A thermodynamically stable $\text{La}_2\text{NiO}_4/\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ bilayer oxygen transport membrane in membrane-assisted water splitting for hydrogen production. <i>Ceramics International</i> , 2013, 39, 3893-3899.	2.3	19
46	Study of Hydration/Dehydration Kinetics of SOFC Cathode Material $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\hat{\sim}}$ by Electrical Conductivity Relaxation Technique. <i>Journal of the Electrochemical Society</i> , 2013, 160, F764-F768.	1.3	19
47	Synthesis of Proton-Conducting, In-Doped SnP_2O_7 Core-Shell-Structured Nanoparticles by Coprecipitation. <i>Journal of the Electrochemical Society</i> , 2009, 156, E23.	1.3	18
48	Highly Sensitive/Selective Miniature Potentiometric Carbon Monoxide Gas Sensors with Titania-Based Sensing Elements. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1062-1068.	1.9	18
49	Effectiveness of Protonic Conduction in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\hat{\sim}}$ Cathode in Intermediate Temperature Proton-Conducting Ceramic-Electrolyte Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2014, 161, F754-F760.	1.3	18
50	Titania-Based Miniature Potentiometric Carbon Monoxide Gas Sensors with High Sensitivity. <i>Journal of the American Ceramic Society</i> , 2010, 93, 742-749.	1.9	17
51	Electrical conductivity of M^{2+} -doped (M = Mg, Ca, Sr, Ba) cerium pyrophosphate-based composite electrolytes for low-temperature proton conducting electrolyte fuel cells. <i>Journal of Alloys and Compounds</i> , 2013, 578, 279-285.	2.8	17
52	Effects of electronic probe-TM's architecture on the sensing performance of mixed-potential based NOX sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 426-436.	4.0	17
53	The role of surface lattice defects of CeO_2 nanoparticles as a scavenging redox catalyst in polymer electrolyte membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26023-26034.	5.2	17
54	Transport properties of $\text{BaCe}_{0.85}\text{Y}_{0.15}\text{O}_{3-\hat{\sim}}$ at closed-cycle refrigerator temperature. <i>Ceramics International</i> , 2009, 35, 1769-1773.	2.3	16

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55	Ionic conductivity of Mn ²⁺ doped dense tin pyrophosphate electrolytes synthesized by a new co-precipitation method. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2967-2976.	2.8	16
56	Mixed proton—electron conducting properties of Yb doped strontium cerate. <i>Journal of Materials Science</i> , 2007, 42, 6177-6182.	1.7	15
57	Hydrogen separation by dual functional cermet membranes with self-repairing capability against the damage by H ₂ S. <i>Journal of Membrane Science</i> , 2013, 428, 46-51.	4.1	15
58	Charge and Mass Transport Properties of BaCe _{0.45} Zr _{0.4} Y _{0.15} O _{3-δ} . <i>Journal of the Electrochemical Society</i> , 2014, 161, F710-F716.	1.3	15
59	Fast ionic conduction in tetravalent metal pyrophosphate-alkali carbonate composites: New potential electrolytes for intermediate-temperature fuel cells. <i>Journal of Power Sources</i> , 2017, 345, 176-181.	4.0	15
60	High temperature polymer electrolyte membrane fuel cells with Polybenzimidazole-Ce _{0.9} Gd _{0.1} P ₂ O ₇ and polybenzimidazole-Ce _{0.9} Gd _{0.1} P ₂ O ₇ -graphite oxide composite electrolytes. <i>Journal of Power Sources</i> , 2018, 401, 149-157.	4.0	15
61	Conductivity Relaxation in Mixed Perovskite-Type Oxide Ba ₃ Ca _{1.18} Nb _{1.82} O _{8.73} upon Oxidation/Reduction and Hydration/Dehydration. <i>Journal of the Electrochemical Society</i> , 2013, 160, F623-F628.	1.3	14
62	Mn ²⁺ -Doped CeP ₂ O ₇ Composite Electrolytes for Application in Low Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F133-F138.	1.3	14
63	Dependence of H ₂ /CO ₂ Co-Electrolysis Performance of SOEC on Microstructural and Thermodynamic Parameters. <i>Journal of the Electrochemical Society</i> , 2016, 163, F728-F736.	1.3	14
64	Hydration of Proton-conducting BaCe _{0.9} Y _{0.1} O _{3-δ} by Decoupled Mass Transport. <i>Scientific Reports</i> , 2017, 7, 486.	1.6	13
65	Correlation between defect structure and electrochemical properties of mixed conducting La _{0.1} Sr _{0.9} Co _{0.8} Fe _{0.2} O _{3-δ} . <i>Acta Materialia</i> , 2014, 65, 373-382.	3.8	12
66	Enhanced mixed potential NO _x gas response performance of surface modified and NiO nanoparticles infiltrated solid-state electrochemical-based NiO-YSZ composite sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 664-677.	4.0	12
67	Thermodynamic Quantities and Defect Chemical Properties of La _{0.8} Sr _{0.2} FeO _{3-δ} . <i>Journal of the Electrochemical Society</i> , 2018, 165, F641-F651.	1.3	12
68	A Facile Combustion Synthesis Route for Performance Enhancement of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} (LSCF6428) as a Robust Cathode Material for IT-SOFC. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 497-505.	1.1	12
69	Preparation of Asymmetric Tubular Oxygen Separation Membrane with Oxygen Permeable Pr ₂ Ni _{0.75} Cu _{0.25} Ga _{0.05} O _{4+δ} . <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 800-808.	1.1	11
70	Oxygen excess nonstoichiometry and thermodynamic quantities of La ₂ NiO _{4-δ} . <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 785-793.	1.2	11
71	Dense composite electrolytes of Gd ³⁺ -doped cerium phosphates for low-temperature proton-conducting ceramic-electrolyte fuel cells. <i>Ceramics International</i> , 2015, 41, 4814-4821.	2.3	11
72	A chemically and mechanically stable dual-phase membrane with high oxygen permeation flux. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23884-23893.	5.2	11

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73	Oxygen Non-Stoichiometry and Thermal-Chemical Expansion of $\text{Ce}_{0.8}\text{Y}_{0.2}\text{O}_{1.9}$ Electrolytes by Neutron Diffraction. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1208-1214.	1.9	10
74	Charge and mass transport properties of $\text{La}_2\text{Ni}_{0.95}\text{Al}_{0.05}\text{O}_{4.025}$. <i>Journal of Alloys and Compounds</i> , 2014, 589, 572-578.	2.8	10
75	Fabrication of Dense Cerium Pyrophosphate-Polystyrene Composite for Application as Low-Temperature Proton-Conducting Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1159-F1164.	1.3	10
76	Effect of partial substitution of Sn^{4+} by M^{4+} (M=Si, Ti, and Ce) on sinterability and ionic conductivity of SnP_2O_7 . <i>Ceramics International</i> , 2015, 41, 3339-3343.	2.3	10
77	Evaluation of the effects of nanocatalyst infiltration on the SOFC performance and electrode reaction kinetics using the transmission line model. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23473-23487.	5.2	10
78	Impact of CeO_2 Nanoparticle Morphology: Radical Scavenging within the Polymer Electrolyte Membrane Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2021, 168, 114521.	1.3	10
79	Partial Conductivities and Chemical Diffusivities of Multi-Ion Transporting $\text{BaZr}_{1-x}\text{Ce}_{0.85-x}\text{Y}_{0.15}\text{O}_{3-\delta}$ ($x = 0, 0.2, 0.4$ and 0.6). <i>Journal of the Electrochemical Society</i> , 2014, 161, F991-F1001.	1.3	9
80	Fabrication of dense $\text{Ce}_{0.9}\text{Mg}_{0.1}\text{P}_2\text{O}_7$ - PmOn composites by microwave heating for application as electrolyte in intermediate-temperature fuel cells. <i>Ceramics International</i> , 2018, 44, 6170-6175.	2.3	9
81	The Electrochemical Properties of Nanocrystalline $\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ Infiltrated Solid Oxide Co-Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, F132-F141.	1.3	9
82	Novel organic-inorganic polyphosphate based composite material as highly dense and robust electrolyte for low temperature fuel cells. <i>Journal of Power Sources</i> , 2021, 493, 229696.	4.0	9
83	A stable and active three-dimensional carbon based trimetallic electrocatalyst for efficient overall wastewater splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30762-30779.	3.8	9
84	Design of tin polyphosphate for hydrogen evolution reaction and supercapacitor applications. <i>Journal of the Korean Ceramic Society</i> , 2021, 58, 688-699.	1.1	9
85	Polyol Synthesis of Pd/Ag Alloy Nanocrystalline. <i>Journal of the Electrochemical Society</i> , 2010, 157, E107.	1.3	8
86	Surface exchange kinetics and chemical diffusivities of $\text{BaZr}_{0.2}\text{Ce}_{0.65}\text{Y}_{0.15}\text{O}_{3-\delta}$ by electrical conductivity relaxation. <i>Journal of Alloys and Compounds</i> , 2014, 610, 301-307.	2.8	8
87	Oxygen permeation through dense $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ perovskite membranes: Catalytic effect of porous $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ layers. <i>Ceramics International</i> , 2015, 41, 7446-7452.	2.3	8
88	Spatial Distribution of Oxygen Chemical Potential under Potential Gradients and Theoretical Maximum Power Density with 8YSZ Electrolyte. <i>Scientific Reports</i> , 2016, 6, 18804.	1.6	8
89	Unraveling the problem associated with multi-cation oxide formation using urea based infiltration techniques for SOFC application. <i>Journal of Alloys and Compounds</i> , 2021, 852, 157037.	2.8	8
90	Measurement of Partial Conductivity of 8YSZ by Hebb-Wagner Polarization Method. <i>Journal of the Korean Ceramic Society</i> , 2015, 52, 299-303.	1.1	8

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91	Design of Novel transition metal based multiphase stannate: An efficient electrocatalyst for oxygen evolution reaction. <i>Materials Chemistry and Physics</i> , 2022, 279, 125613.	2.0	8
92	Non-galvanic Hydrogen Production Using High Steam Pressure Gradients. <i>Chemistry Letters</i> , 2006, 35, 1068-1069.	0.7	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. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7982-7990.	3.8	7
94	Study of electrochemical hydrogen charge/discharge properties of FePO ₄ for application as negative electrodes in hydrogen batteries. <i>Ceramics International</i> , 2013, 39, 6559-6568.	2.3	7
95	Comparative study of an experimental Portland cement and ProRoot MTA by electrochemical impedance spectroscopy. <i>Ceramics International</i> , 2014, 40, 1741-1746.	2.3	7
96	Electrical Behavior and Stability of K ₂ HPO ₄ -KH ₅ (PO ₄) ₂ -Ce _{0.9} Gd _{0.1} P ₂ Electrolytes for Intermediate Temperature Proton-Conducting Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, F225-F229.	1.3	7
97	Role of surface exchange kinetics in coated zirconia dual-phase membrane with high oxygen permeability. <i>Journal of Membrane Science</i> , 2020, 597, 117620.	4.1	7
98	Investigation on Hydration Process and Biocompatibility of Calcium Silicate-Based Experimental Portland Cements. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 403-411.	1.1	7
99	Novel Design of Dual Functional Hydrogen Separation Membranes. <i>Chemistry Letters</i> , 2009, 38, 344-345.	0.7	6
100	Oxygen Nonstoichiometry and Thermodynamic Quantities of La ₂ Ni _{0.95} Al _{0.05} Journal of the American Ceramic Society, 2014, 97, 1489-1496.	1.9	6
101	An in-situ gas chromatography investigation into the suppression of oxygen gas evolution by coated amorphous cobalt-phosphate nanoparticles on oxide electrode. <i>Scientific Reports</i> , 2016, 6, 23394.	1.6	6
102	Energetically-favorable distribution of oxygen vacancies and metal atoms in perovskite BaCe _{0.85} Y _{0.15} O _{2.925} solid solutions using a genetic algorithm and lattice statics. <i>Computational Materials Science</i> , 2019, 170, 109184.	1.4	6
103	Sintering and electrical behavior of ZrP ₂ O ₇ -CeP ₂ O ₇ solid solutions Zr _{1-x} Ce _x P ₂ O ₇ ; x=0.2 and (Zr _{0.92} Y _{0.08}) _{1-y} Ce _y P ₂ O ₇ ; y=0.1 for application as electrolyte in intermediate temperature fuel cells. <i>Ionics</i> , 2019, 25, 155-162.	1.2	6
104	Influence of different parameters on total fluoride concentration evaluation in ex-situ chemical degradation of nafion based membrane. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 2057-2063.	1.2	6
105	Role of Different Oxide to Fuel Ratios in Solution Combustion Synthesis of SnO ₂ Nanoparticles. <i>Journal of the Korean Ceramic Society</i> , 2016, 53, 122-127.	1.1	6
106	Enhanced Crystalline and Magnetic Properties of Co-Doped TiO ₂ Films Grown by Ultraviolet-Assisted Pulsed Laser Deposition. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C4.	2.2	5
107	Growth of SiC nanocables on SiO ₂ films derived by gaseous composition control using Ti. <i>Journal of Crystal Growth</i> , 2005, 281, 556-562.	0.7	5
108	Synthesis and characterization of MnO-doped titanium pyrophosphates (Ti _{1-x} Mn _x P ₂ O ₇ ; x=0.2) for intermediate-temperature proton-conducting ceramic-electrolyte fuel cells. <i>Ionics</i> , 2017, 23, 1675-1684.	1.2	5

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109	Spatial distribution of oxygen chemical potential under potential gradients and performance of solid oxide fuel cells with $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{2-\delta}$ electrolyte. <i>Solid State Ionics</i> , 2018, 324, 150-156.	1.3	5
110	A new solution phase synthesis of cerium(IV) pyrophosphate compounds of different morphologies using cerium(III) precursor. <i>Journal of Alloys and Compounds</i> , 2019, 793, 686-694.	2.8	5
111	Defect chemistry of highly defective $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ by considering oxygen interstitials: Effect of hole degeneracy. <i>Solid State Ionics</i> , 2020, 347, 115251.	1.3	5
112	Defect Structure, Transport Properties, and Chemical Expansion in $\text{Ba}_{0.95}\text{La}_{0.05}\text{FeO}_{3-\delta}$. <i>Journal of the Electrochemical Society</i> , 2021, 168, 034511.	1.3	5
113	Proton Conducting Material $\text{Ba}_3\text{Ce}(\text{PO}_4)_3$ Synthesized by Coprecipitation. <i>Journal of the Electrochemical Society</i> , 2007, 154, H566.	1.3	4
114	Determination of isothermal mass and charge transport properties of $\text{La}_2\text{NiO}_{4+\delta}$ by ion-blocking cell method. <i>Ceramics International</i> , 2014, 40, 16785-16790.	2.3	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. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070540.	1.3	4
116	Investigation of Effect of Al^{3+} -Doping on Mass/Charge Transport Properties of $\text{La}_2\text{NiO}_{4+\delta}$ by Blocking Cell Method. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1302-F1307.	1.3	3
117	Defect Chemistry of Highly Defective $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ by Considering Oxygen Interstitials. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1588-F1595.	1.3	3
118	Study of mass transport kinetics in co-doped $\text{Ba}_{0.9}\text{Sr}_{0.1}\text{Ce}_{0.85}\text{Y}_{0.15}\text{O}_{3-\delta}$ by electrical conductivity relaxation. <i>Solid State Ionics</i> , 2016, 289, 9-16.	1.3	3
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