

Sun-Ju Song

List of Publications by Year in descending order

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131
all docs

131
docs citations

131
times ranked

1960
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Mixed ionic-electronic conducting (MIEC) oxide ceramics for electrochemical applications. , 2022, , 201-230.		0
4	Anchoring of Ni ₁₂ P ₅ 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
5	Nonideal defect structure and high-temperature transport properties of misfit-layered cobalt oxide. Journal of Solid State Chemistry, 2022, 313, 123299.	2.9	2
6	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
7	Ultrahigh-sensitive mixed-potential ammonia sensor using dual-functional NiWO ₄ electrocatalyst for exhaust environment monitoring. Journal of Hazardous Materials, 2021, 403, 123797.	12.4	48
8	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
9	Defect Structure, Transport Properties, and Chemical Expansion in Ba _{0.95} La _{0.05} FeO ₃ . Journal of the Electrochemical Society, 2021, 168, 034511.	2.9	5
10	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
11	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
12	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
13	Design of tin polyphosphate for hydrogen evolution reaction and supercapacitor applications. Journal of the Korean Ceramic Society, 2021, 58, 688-699.	2.3	9
14	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
15	Triple perovskite structured Nd _{1.5} Ba _{1.5} CoFeMnO ₉ oxygen electrode materials for highly efficient and stable reversible protonic ceramic cells. Journal of Power Sources, 2021, 510, 230409.	7.8	24
16	Impact of CeO ₂ Nanoparticle Morphology: Radical Scavenging within the Polymer Electrolyte Membrane Fuel Cell. Journal of the Electrochemical Society, 2021, 168, 114521.	2.9	10
17	One step infiltration induced multi-cation oxide nanocatalyst for load proof SOFC application. Applied Catalysis B: Environmental, 2020, 267, 118374.	20.2	37
18	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

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19	A chemically and mechanically stable dual-phase membrane with high oxygen permeation flux. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23884-23893.	10.3	11
20	Structural and electrical properties of novel phosphate based composite electrolyte for low-temperature fuel cells. <i>Composites Part B: Engineering</i> , 2020, 202, 108405.	12.0	29
21	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.	10.3	17
22	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.	10.3	10
23	Defect chemistry of highly defective La _{0.1} Sr _{0.9} Co _{0.8} Fe _{0.2} O ₃ by considering oxygen interstitials: Effect of hole degeneracy. <i>Solid State Ionics</i> , 2020, 347, 115251.	2.7	5
24	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.	2.9	44
25	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.	7.8	20
26	Synergistic enhancement in the sensing performance of a mixed-potential NH ₃ sensor using SnO ₂ @CuFe ₂ O ₄ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127748.	7.8	40
27	Effect of oxygen vacancies on electrical conductivity of La _{0.5} Sr _{0.5} FeO ₃ from first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4784-4789.	10.3	41
28	Surface decorated spinel-oxide electrodes for mixed-potential ammonia sensor: Performance and DRT analysis. <i>Journal of Hazardous Materials</i> , 2020, 396, 122601.	12.4	30
29	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 ₃ (BZCYb1711) electrolyte under various PCFC conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21321-21328.	10.3	43
30	Sensing Performance of a YSZ-Based Electrochemical NO ₂ Sensor Using Nanocomposite Electrodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, B799-B804.	2.9	31
31	Energetically-favorable distribution of oxygen vacancies and metal atoms in perovskite BaCeZr _{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.	3.0	6
32	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.	5.5	5
33	Investigations on Defect Equilibrium, Thermodynamic Quantities, and Transport Properties of La _{0.5} Sr _{0.5} FeO ₃ . <i>Journal of the Electrochemical Society</i> , 2019, 166, F180-F189.	2.9	20
34	Effects of electronic probe™s architecture on the sensing performance of mixed-potential based NO _x sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 426-436.	7.8	17
35	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.	7.8	50
36	Influence of sintering temperature on the physical, electrochemical and sensing properties of λ -Fe ₂ O ₃ -SnO ₂ nanocomposite sensing electrode for a mixed-potential type NO _x sensor. <i>Ceramics International</i> , 2019, 45, 2309-2318.	4.8	29

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37	Sintering and electrical behavior of ZrP2O7/CeP2O7 solid solutions Zr _{1-x} Ce _x P2O7; x=0.2 and (Zr _{0.92} Y _{0.08}) _{1-y} Ce _y P2O7; y=0.1 for application as electrolyte in intermediate temperature fuel cells. <i>Ionics</i> , 2019, 25, 155-162.	3.4	6
38	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.	2.3	7
39	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.	2.3	12
40	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.	7.8	12
41	Fabrication of dense Ce _{0.9} Mg _{0.1} P2O7-PmOn composites by microwave heating for application as electrolyte in intermediate-temperature fuel cells. <i>Ceramics International</i> , 2018, 44, 6170-6175.	4.8	9
42	The Electrochemical Properties of Nanocrystalline Gd _{0.1} Ce _{0.9} O _{1.95} Infiltrated Solid Oxide Co-Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, F132-F141.	2.9	9
43	High temperature polymer electrolyte membrane fuel cells with Polybenzimidazole-Ce _{0.9} Gd _{0.1} P2O7 and polybenzimidazole-Ce _{0.9} Gd _{0.1} P2O7-graphite oxide composite electrolytes. <i>Journal of Power Sources</i> , 2018, 401, 149-157.	7.8	15
44	Lithium Ion Conductivity and Thermodynamic Activity of Li ₂ O in Li _{0.23} La _{0.61} TiO ₃ . <i>Chemistry Letters</i> , 2018, 47, 1032-1035.	1.3	1
45	Spatial distribution of oxygen chemical potential under potential gradients and performance of solid oxide fuel cells with Ce _{0.9} Gd _{0.1} O _{2-δ} electrolyte. <i>Solid State Ionics</i> , 2018, 324, 150-156.	2.7	5
46	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.	2.9	12
47	Enhancing Gas Response Characteristics of Mixed Metal Oxide Gas Sensors. <i>Journal of the Korean Ceramic Society</i> , 2018, 55, 1-20.	2.3	31
48	Preparation and characterization of plasma-sprayed yttria stabilized zirconia as a potential substrate for NO _x sensor. <i>Ceramics International</i> , 2017, 43, 4083-4089.	4.8	2
49	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.	7.8	15
50	Isothermal Charge Transport Properties of La _{0.1} Sr _{0.9} Co _{0.8} Fe _{0.2} O _{3-δ} by Blocking Cell Method. <i>Journal of the Electrochemical Society</i> , 2017, 164, F400-F404.	2.9	1
51	Synthesis and characterization of MnO-doped titanium pyrophosphates (Ti _{1-x} Mn _x P2O7; x=0.2) for intermediate-temperature proton-conducting ceramic-electrolyte fuel cells. <i>Ionics</i> , 2017, 23, 1675-1684.	2.4	5
52	Spatial Distribution of Oxygen Chemical Potential Profile across Zr _{0.84} Y _{0.16} O _{1.92} /Ce _{0.9} Gd _{0.1} O _{1.95} Bilayer Electrolyte under SOFC Operating Conditions. <i>ECS Transactions</i> , 2017, 78, 343-348.	0.5	2
53	Hydration of Proton-conducting BaCe _{0.9} Y _{0.1} O _{3-δ} by Decoupled Mass Transport. <i>Scientific Reports</i> , 2017, 7, 486.	3.3	13
54	Microstructure Variation of Ni-YSZ by Infiltration Using Urea Precipitation Method and Their Electrochemical Properties. <i>ECS Transactions</i> , 2017, 78, 1463-1468.	0.5	0

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55	Pd-YSZ cermet membranes with self-repairing capability in extreme H ₂ S conditions. <i>Ceramics International</i> , 2017, 43, 2291-2296.	4.8	0
56	An Enhanced High-Rate Na ₃ V ₂ (PO ₄) ₃ -Ni ₂ P Nanocomposite Cathode with Stable Lifetime for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35235-35242.	8.0	35
57	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.	3.3	6
58	Dependence of H ₂ O/CO ₂ -Co-Electrolysis Performance of SOEC on Microstructural and Thermodynamic Parameters. <i>Journal of the Electrochemical Society</i> , 2016, 163, F728-F736.	2.9	14
59	Investigation of Effect of Al ³⁺ -Doping on Mass/Charge Transport Properties of La ₂ NiO ₄ by Blocking Cell Method. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1302-F1307.	2.9	3
60	Robust NdBa _{0.5} Sr _{0.5} Co _{1.5} Fe _{0.5} O ₅ 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.	7.8	37
61	Spatial Distribution of Oxygen Chemical Potential under Potential Gradients and Theoretical Maximum Power Density with 8YSZ Electrolyte. <i>Scientific Reports</i> , 2016, 6, 18804.	3.3	8
62	Defect Chemistry of Highly Defective La _{0.1} Sr _{0.9} Co _{0.8} Fe _{0.2} O ₃ by Considering Oxygen Interstitials. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1588-F1595.	2.9	3
63	Electrical and physical properties of composite BaZr _{0.85} Y _{0.15} O ₃ -Nd _{0.1} Ce _{0.9} O ₂ electrolytes for intermediate temperature-solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016, 336, 437-446.	7.8	27
64	Structural, thermal and mechanical properties of aluminum nitride ceramics with CeO ₂ as a sintering aid. <i>Ceramics International</i> , 2016, 42, 11519-11524.	4.8	29
65	Study of mass transport kinetics in co-doped Ba _{0.9} Sr _{0.1} Ce _{0.85} Y _{0.15} O ₃ by electrical conductivity relaxation. <i>Solid State Ionics</i> , 2016, 289, 9-16.	2.7	3
66	Effect of MnO doping in tetravalent metal pyrophosphate (MP ₂ O ₇ ; M=Ce, Sn, Zr) electrolytes. <i>Ceramics International</i> , 2016, 42, 2983-2989.	4.8	20
67	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.	2.9	7
68	Performance of Proton-conducting Ceramic-electrolyte Fuel Cell with BZCY40 electrolyte and BSCF5582 cathode. <i>Ceramics International</i> , 2016, 42, 3776-3785.	4.8	44
69	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.	2.3	6
70	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.	4.8	11
71	Oxygen permeation through dense La _{0.1} Sr _{0.9} Co _{0.8} Fe _{0.2} O ₃ perovskite membranes: Catalytic effect of porous La _{0.1} Sr _{0.9} Co _{0.8} Fe _{0.2} O ₃ layers. <i>Ceramics International</i> , 2015, 41, 7446-7452.	4.8	8
72	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.	2.9	10

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73	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.	5.5	57
74	Investigation of Oxygen Reduction Reaction on $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ Electrode by Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2015, 162, F728-F735.	2.9	22
75	Investigations on Electrochemical Performance of a Proton-Conducting Ceramic-Electrolyte Fuel Cell with $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ Cathode. <i>Journal of the Electrochemical Society</i> , 2015, 162, F547-F554.	2.9	34
76	La_2NiO_4 as oxygen electrode in reversible solid oxide cells. <i>Ceramics International</i> , 2015, 41, 6448-6454.	4.8	25
77	Steam/ CO_2 Co-Electrolysis Performance of Reversible Solid Oxide Cell with $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ - $\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ Electrode. <i>Journal of the Electrochemical Society</i> , 2015, 162, F54-F59.		
78	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. <i>Journal of Power Sources</i> , 2015, 276, 120-132.	7.8	26
79	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.	4.8	10
80	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.	7.8	47
81	Measurement of Partial Conductivity of 8YSZ by Hebb-Wagner Polarization Method. <i>Journal of the Korean Ceramic Society</i> , 2015, 52, 299-303.	2.3	8
82	Oxygen Nonstoichiometry and Thermodynamic Quantities of $\text{La}_2\text{Ni}_{0.95}\text{Al}_{0.05}\text{O}_{3-\delta}$. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1489-1496.		
83	Ionic Conductivity of Gd^{3+} -Doped Cerium Pyrophosphate Electrolytes with Core-Shell Structure. <i>Journal of the Electrochemical Society</i> , 2014, 161, F464-F472.	2.9	20
84	Mn^{2+} -Doped CeP_2O_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.	2.9	14
85	Partial Conductivities and Chemical Diffusivities of Multi-Ion Transporting $\text{BaZr}_x\text{Ce}_{0.85-x}\text{Y}_{0.15}\text{O}_{3-\delta}$ ($x = 0, 0.2, 0.4$ and 0.6). <i>Journal of the Electrochemical Society</i> , 2014, 161, F991-F1001.	2.9	9
86	Charge and Mass Transport Properties of $\text{BaCe}_{0.45}\text{Zr}_{0.4}\text{Y}_{0.15}\text{O}_{3-\delta}$. <i>Journal of the Electrochemical Society</i> , 2014, 161, F710-F716.	2.9	15
87	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.	5.7	16
88	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.	5.5	10
89	Comparative study of an experimental Portland cement and ProRoot MTA by electrochemical impedance spectroscopy. <i>Ceramics International</i> , 2014, 40, 1741-1746.	4.8	7
90	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.	5.5	8

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91	Correlation between defect structure and electrochemical properties of mixed conducting $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$. <i>Acta Materialia</i> , 2014, 65, 373-382.	7.9	12
92	PdO-doped $\text{BaZr}_{0.8}\text{Y}_{0.2}\text{O}_{3-\delta}$ electrolyte for intermediate-temperature protonic ceramic fuel cells. <i>Acta Materialia</i> , 2014, 66, 273-283.	7.9	30
93	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.	4.8	4
94	Effectiveness of Protonic Conduction in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ Cathode in Intermediate Temperature Proton-Conducting Ceramic-Electrolyte Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2014, 161, F754-F760.	2.9	18
95	Highly conductive barium zirconate-based carbonate composite electrolytes for intermediate temperature-protonic ceramic fuel cells. <i>Journal of Alloys and Compounds</i> , 2014, 585, 103-110.	5.5	27
96	Cerium Pyrophosphate-based Proton-conducting Ceramic Electrolytes for Low Temperature Fuel Cells. <i>Journal of the Korean Ceramic Society</i> , 2014, 51, 248-259.	2.3	3
97	A thermodynamically stable $\text{La}_{2}\text{NiO}_{4+\delta}/\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ bilayer oxygen transport membrane in membrane-assisted water splitting for hydrogen production. <i>Ceramics International</i> , 2013, 39, 3893-3899.	4.8	19
98	Hydrogen separation by dual functional cermet membranes with self-repairing capability against the damage by H_2S . <i>Journal of Membrane Science</i> , 2013, 428, 46-51.	8.2	15
99	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.	5.5	17
100	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.	7.8	78
101	Study of Oxygen Nonstoichiometry and Transport in $\text{Y}_{0.08}\text{Sr}_{0.92}\text{Fe}_{0.1}\text{Ti}_{0.9}\text{O}_{3-\delta}$ for Application as SOFC Anode. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1048-F1054.	2.9	2
102	Electrochemical hydrogen charge and discharge properties of $\text{La}_{0.1}\text{Sr}_{0.9}\text{Co}_{1-\gamma}\text{Fe}_{\gamma}\text{O}_{3-\delta}$ ($\gamma = 0, 0.2, 1$) electrodes in alkaline electrolyte solution. <i>Electrochimica Acta</i> , 2013, 102, 393-399.	5.2	31
103	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.	4.8	7
104	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.	7.8	37
105	Studies on Ionic Conductivity of Sr^{2+} -Doped CeP_{2}O_7 Electrolyte in Humid Atmosphere. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2653-2661.	3.1	43
106	Conductivity Relaxation in Mixed Perovskite-Type Oxide $\text{Ba}_3\text{Ca}_{1.18}\text{Nb}_{1.82}\text{O}_{8.73}$ upon Oxidation/Reduction and Hydration/Dehydration. <i>Journal of the Electrochemical Society</i> , 2013, 160, F623-F628.	2.9	14
107	Study of Hydration/Dehydration Kinetics of SOFC Cathode Material $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ by Electrical Conductivity Relaxation Technique. <i>Journal of the Electrochemical Society</i> , 2013, 160, F764-F768.	2.9	19
108	Pyro-Synthesis of Functional Nanocrystals. <i>Scientific Reports</i> , 2012, 2, 946.	3.3	42

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109	Electrical Behavior of CeP2O7 Electrolyte for the Application in Low-Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, F819-F825.	2.9	25
110	Addition effects of erbia-stabilized bismuth oxide on ceria-based carbonate composite electrolytes for intermediate temperature- $\hat{\alpha}$ 'solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16823-16834.	7.1	23
111	Oxygen excess nonstoichiometry and thermodynamic quantities of La_2NiO_4 . <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 785-793.	2.5	11
112	Chemical Constitution, Physical Properties, and Biocompatibility of Experimentally Manufactured Portland Cement. <i>Journal of Endodontics</i> , 2011, 37, 58-62.	3.1	49
113	Preparation of Asymmetric Tubular Oxygen Separation Membrane with Oxygen Permeable $\text{Pr}_2\text{NiO}_{0.75}\text{Cu}_{0.25}\text{Ga}_{0.05}\text{O}_4$. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 800-808.	2.1	11
114	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.	7.1	7
115	Titania-Based Miniature Potentiometric Carbon Monoxide Gas Sensors with High Sensitivity. <i>Journal of the American Ceramic Society</i> , 2010, 93, 742-749.	3.8	17
116	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.	3.8	18
117	Polyol Synthesis of Pd/Ag Alloy Nanocrystalline. <i>Journal of the Electrochemical Society</i> , 2010, 157, E107.	2.9	8
118	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.	2.9	18
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