Progress in material selection for solid oxide fuel cell te

Progress in Materials Science 72, 141-337 DOI: 10.1016/j.pmatsci.2015.01.001

Citation Report

#	Article	IF	CITATIONS
2	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. Advanced Energy Materials, 2015, 5, 1500537.	10.2	229
3	Dopant Clusterization and Oxygen Coordination in Ta-Doped Bismuth Oxide: A Structural and Computational Insight into the Mechanism of Anion Conduction. Journal of Physical Chemistry C, 2015, 119, 26367-26373.	1.5	10
4	Doped ceria anode interlayer for low-temperature solid oxide fuel cells with nanothin electrolyte. Thin Solid Films, 2015, 591, 250-254.	0.8	18
5	Phase transitions and microstructure of ferroelastic MIEC oxide SrCo _{0.8} Fe _{0.2} O _{2.5} doped with highly charged Nb/Ta(<scp>v</scp>) cations. Journal of Materials Chemistry A, 2015, 3, 23240-23251.	5.2	24
6	Enhancing the dual magnetic and optical properties of co-doped cerium oxide nanostructures. RSC Advances, 2015, 5, 103465-103473.	1.7	27
7	Utilization of Compounds of Phosphorus. , 2016, , .		0
8	The Sulphur Poisoning Behaviour of Gadolinia Doped Ceria Model Systems in Reducing Atmospheres. Materials, 2016, 9, 649.	1.3	21
9	Constrained Sintering in Fabrication of Solid Oxide Fuel Cells. Materials, 2016, 9, 675.	1.3	13
10	Perovskites Used in Fuel Cells. , 0, , .		5
11	Investigation into the effect on structure of oxoanion doping in Na2M(SO4)2·2H2O. Journal of Solid State Chemistry, 2016, 242, 103-111.	1.4	9
12	Preserving Nanomorphology in YSZ Scaffolds at High Temperatures via <i>In Situ</i> Carbon Templating of Hybrid Materials. Journal of the American Ceramic Society, 2016, 99, 2625-2631.	1.9	6
13	The phase evolution, electrical stability and chemical compatibility of sealing glass–ceramics for solid oxide fuel cell applications: effect of La ₂ O ₃ or CeO ₂ . RSC Advances, 2016, 6, 17151-17157.	1.7	6
14	Effect of SrO Doping on LaGaO ₃ Synthesis via Magnetron Sputtering. Crystal Growth and Design, 2016, 16, 6812-6816.	1.4	1
15	Effects of impregnating palladium on catalytic performance of LSCF-GDC composite cathodes for intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2016, 41, 6486-6492.	3.8	21
16	Crystal-isotropicity dependence of ionic conductivity enhancement at strained interfaces. Solid State lonics, 2016, 289, 168-172.	1.3	2
17	Stability and electrochemical performance of lanthanum ferrite-based composite SOFC anodes in hydrogen and carbon monoxide. Electrochimica Acta, 2016, 208, 164-173.	2.6	25
18	Scandia stabilized zirconia-ceria solid electrolyte (xSc1CeSZ, 5 <x< 10-13.<="" 11)="" 121,="" 2016,="" and="" conductivity="" for="" it-sofcs:="" materialia,="" scripta="" structure="" studies.="" td=""><td>2.6</td><td>43</td></x<>	2.6	43
19	Efficient and stable iron based perovskite La0.9Ca0.1Fe0.9Nb0.1O3-δ anode material for solid oxide fuel cells. Journal of Power Sources, 2016, 316, 224-231.	4.0	27

#	Article	IF	CITATIONS
20	Continuous conversion of biomass wastes in a La0.75Sr0.25Cr0.5Mn0.5O3–δ based carbon–air battery. International Journal of Hydrogen Energy, 2016, 41, 5057-5062.	3.8	28
21	Solid oxide fuel cell interconnect design optimization considering the thermal stresses. Science Bulletin, 2016, 61, 1333-1344.	4.3	50
22	A computational study of doped olivine structured Cd ₂ GeO ₄ : local defect trapping of interstitial oxide ions. Physical Chemistry Chemical Physics, 2016, 18, 26284-26290.	1.3	5
23	Grain orientation dependent Nb–Ti microalloying mediated surface segregation on ferritic stainless steel. Corrosion Science, 2016, 112, 204-213.	3.0	16
24	Isolated hydrogen configurations in zirconia as seen by muon spin spectroscopy and <i>ab initio</i> calculations. Physical Review B, 2016, 94, .	1.1	24
25	Calculation of thermal expansion coefficient of glasses based on topological constraint theory. Chemical Physics Letters, 2016, 662, 268-272.	1.2	5
26	Structural, thermal, electrical and morphological characterization of (Bi 2 O 3) 1â^'xâ^'y (Sm 2 O 3) x (Yb 2 O 3) y nanostructures prepared by solid state synthesis. Current Applied Physics, 2016, 16, 1588-1596.	1.1	15
27	Structure and Reducibility of CeO ₂ Doped with Trivalent Cations. Journal of Physical Chemistry C, 2016, 120, 23430-23440.	1.5	66
28	Performance and long-term stability of nickel/yttria-stabilized zirconia anode-supported solid oxide fuel cell in simulated biosyngas. Energy, 2016, 114, 1-9.	4.5	10
29	Synthesis and characterization of Sm _{0.5} Ba _{0.5} MnO _{3-δ} as anode materials for solid oxide fuel cells. IOP Conference Series: Materials Science and Engineering, 2016, 121, 012001.	0.3	3
30	Impregnation versus exsolution: Using metal catalysts to improve electrocatalytic properties of LSCM-based anodes operating at 600°C. International Journal of Hydrogen Energy, 2016, 41, 14207-14216.	3.8	39
31	A new Dy-doped BaCeO ₃ –BaZrO ₃ proton-conducting material as a promising electrolyte for reversible solid oxide fuel cells. Journal of Materials Chemistry A, 2016, 4, 15390-15399.	5.2	97
32	Preparation of one-step NiO/Ni-CGO composites using factorial design. Ceramics International, 2016, 42, 18166-18172.	2.3	12
33	Conceptual energy and water recovery system for self-sustained nano membrane toilet. Energy Conversion and Management, 2016, 126, 352-361.	4.4	29
34	Glass-ceramic sealant for solid oxide fuel cells application: Characterization and performance in dual atmosphere. Journal of Power Sources, 2016, 328, 262-270.	4.0	50
35	Modification of mixed conducting Ba0.5Sr0.5Co0.8Fe0.2O3–î [^] by partial substitution of cobalt with tungsten. Russian Journal of Electrochemistry, 2016, 52, 648-654.	0.3	4
36	Crystal structure, thermal expansion and electrical conductivity of LaCoxNiyMozO3. Dalton Transactions, 2016, 45, 15290-15293.	1.6	0
37	Study of sealants for SOFC. International Journal of Hydrogen Energy, 2016, 41, 21812-21819.	3.8	32

#	Article	IF	CITATIONS
38	Model composite microelectrodes as a pathfinder for fully oxidic SOFC anodes. Solid State Ionics, 2016, 298, 1-8.	1.3	10
39	Elucidating the Role of the Electric Field at the Ni/YSZ Electrode: A DFT Study. Journal of Physical Chemistry C, 2016, 120, 14608-14620.	1.5	12
40	A tape calendering method as an effective way for the preparation of proton ceramic fuel cells with enhanced performance. Electrochimica Acta, 2016, 210, 681-688.	2.6	43
41	Improving physical properties of cubic InO1.5-stabilized zirconia by alloying with MoO3. Journal of Alloys and Compounds, 2016, 685, 593-603.	2.8	5
42	Facile synthesis of Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3â َ (BSCF) perovskite nanowires by templating from nanoporous anodic aluminium oxide membranes. Materials Chemistry and Physics, 2016, 177, 371-378.	2.0	9
43	A High Performance Ni-Free Redox Reversible Ceramic Anode R-La _{0.5} Sr _{0.5} Pe _{0.8} Cu _{0.1} Ti _{0.1} O _{3-î´} Intermediate Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2016, 163, F737-F743.	for 1.3	16
44	Gas leak diffusion induced polarization in submicro/nanoscale non-tight electrolytes of solid oxide fuel cells. RSC Advances, 2016, 6, 62052-62061.	1.7	3
45	Acceptor doping effects on microstructure, thermal and electrical properties of proton-conducting BaCe0.5Zr0.3Ln0.2O3â°Î´ (Ln = Yb, Gd, Sm, Nd, La or Y) ceramics for solid oxide fuel cell applications. Electrochimica Acta, 2016, 192, 80-88.	2.6	45
46	Glass ceramic sealants belonging to BAS (BaO–Al 2 O 3 –SiO 2) ternary system modified with B 2 O 3 addition: A different approach to access the SOFC seal issue. Journal of the European Ceramic Society, 2016, 36, 631-644.	2.8	64
47	Controlling the surface chemistry of cerium oxide nanoparticles for biological applications. Journal of Materials Chemistry B, 2016, 4, 3195-3202.	2.9	111
48	Mn-doped La _{0.6} Sr _{0.4} CoO ₃ perovskite catalysts with enhanced performances for non-aqueous electrolyte Li–O ₂ batteries. RSC Advances, 2016, 6, 13522-13530.	1.7	18
49	Solid oxide fuel cell operating with biomass derived producer gas: Status and challenges. Renewable and Sustainable Energy Reviews, 2016, 60, 450-463.	8.2	37
50	Electrical conductivities of translucent BaZrxCe0.8-xY0.2O3-δ (x = 0.5, 0.6, 0.7) ceramics. Scripta Materialia, 2016, 115, 87-90.	2.6	3
51	Facile preparation of BIMEVOX powders via melting process: From synthesis to sintering optimization. Ceramics International, 2016, 42, 7088-7098.	2.3	3
52	Advanced materials for SOFC application: Strategies for the development of highly conductive and stable solid oxide proton electrolytes. Progress in Materials Science, 2016, 75, 38-79.	16.0	285
53	CO ₂ as a hydrogen vector – transition metal diamine catalysts for selective HCOOH dehydrogenation. Dalton Transactions, 2017, 46, 1670-1676.	1.6	36
54	Corn-cob like nanofibres as cathode catalysts for an effective microstructure design in solid oxide fuel cells. Journal of Materials Chemistry A, 2017, 5, 3966-3973.	5.2	29
55	Electrochemical moisture analysis by combining oxygen- and proton-conducting ceramic electrolytes. Electrochemistry Communications, 2017, 76, 55-58.	2.3	14

#	Article	IF	CITATIONS
56	Preparation and electrochemical properties of Ba0.8La0.2FeO3-δ cathode for intermediate-temperature solid oxide fuel cells. Journal of Sol-Gel Science and Technology, 2017, 82, 233-238.	1.1	4
57	Design and applications of potentiometric sensors based on proton-conducting ceramic materials. A brief review. Sensors and Actuators B: Chemical, 2017, 244, 1004-1015.	4.0	51
58	Thermo-stimulated evolution of crystalline structure and dopant distribution in Cu-doped Y-stabilized ZrO ₂ nanopowders. Materials Research Express, 2017, 4, 035024.	0.8	12
59	Phase field modeling of microstructure evolution and concomitant effective conductivity change in solid oxide fuel cell electrodes. Journal of Power Sources, 2017, 345, 275-289.	4.0	34
60	Three dimensional printing of components and functional devices for energy and environmental applications. Energy and Environmental Science, 2017, 10, 846-859.	15.6	228
61	Features of structural, thermal and electrical properties of Mo-based composite materials as fuel electrodes for high-temperature applications. Journal of Alloys and Compounds, 2017, 705, 854-861.	2.8	11
62	Calcium-doped ceria materials for anode of solid oxide fuel cells running on methane fuel. Journal of Power Sources, 2017, 347, 79-85.	4.0	34
63	Impurity-Governed Modification of Optical and Structural Properties of ZrO2-Based Composites Doped with Cu and Y. Nanoscale Research Letters, 2017, 12, 157.	3.1	12
64	Infiltrated Sr 2 Fe 1.5 Mo 0.5 O 6 /La 0.9 Sr 0.1 Ga 0.8 Mg 0.2 O 3 electrodes towards high performance symmetrical solid oxide fuel cells fabricated by an ultra-fast and time-saving procedure. Electrochemistry Communications, 2017, 78, 6-10.	2.3	24
65	Experience curve development and cost reduction disaggregation for fuel cell markets in Japan and the US. Applied Energy, 2017, 191, 346-357.	5.1	72
66	Pt thin film transient mobility over yttria stabilized zirconia. Thin Solid Films, 2017, 626, 17-24.	0.8	2
67	Influence of ionic conductivity of the nano-particulate coating phase on oxygen surface exchange of La _{0.58} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3â^î´} . Journal of Materials Chemistry A, 2017, 5, 4991-4999.	5.2	38
68	Influence of Surface Finishing on High-Temperature Oxidation of AISI Type 444 Ferritic Stainless Steel Used in SOFC Stacks. Acta Metallurgica Sinica (English Letters), 2017, 30, 697-711.	1.5	11
69	Ionic–gelation synthesis of gadolinium doped ceria (Ce 0.8 Gd 0.2 O 1.90) nanocomposite powder using sodium-alginate. Ceramics International, 2017, 43, 7123-7135.	2.3	10
70	Conformal bi-layered perovskite/spinel coating on a metallic wire network for solid oxide fuel cells via an electrodeposition-based route. Journal of Power Sources, 2017, 348, 40-47.	4.0	18
71	Development of electrochemically active electrodes for BaCe0.89Gd0.1Cu0.01O3â^î´proton conducting electrolyte. Solid State Ionics, 2017, 306, 55-61.	1.3	25
73	Modeling of complex interfaces: Gadoliniumâ€doped ceria in contact with yttriaâ€stabilized zirconia. Journal of the American Ceramic Society, 2017, 100, 3329-3339.	1.9	9
74	Enhanced performance of solid oxide fuel cells using BaZr0.2Ce0.7Y0.1O3â^î´thin films. Journal of Power Sources, 2017, 353, 254-259.	4.0	23

#	Article	IF	Citations
75	A Highly Active Perovskite Cathode for Lowâ€Temperature Solid Oxide Fuel Cells: BaCo _{0.7} Fe _{0.22} Sc _{0.08} O _{3–} <i>_δ</i> . Advanced Sustainable Systems, 2017, 1, 1700005.	2.7	6
76	Degradation mechanism of La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3-δ/Gd 0.1 Ce 0.9 O 2-δ composite electrode operated under solid oxide electrolysis and fuel cell conditions. Electrochimica Acta, 2017, 241, 459-476.	2.6	87
77	Dealing with fuel contaminants in biogas-fed solid oxide fuel cell (SOFC) and molten carbonate fuel cell (MCFC) plants: Degradation of catalytic and electro-catalytic active surfaces and related gas purification methods. Progress in Energy and Combustion Science, 2017, 61, 150-188.	15.8	122
78	Mechanical properties of solid oxide fuel cell glass-ceramic sealants in the system BaO/SrO-MgO-B2O3-SiO2. Journal of the European Ceramic Society, 2017, 37, 3579-3594.	2.8	48
79	Effect of anode thickness and Cu content on consolidation and performance of planar copper-based anode-supported SOFC. International Journal of Hydrogen Energy, 2017, 42, 12543-12550.	3.8	15
80	Análisis de la estructura perovskita La x Sr 1-x Cr y Mn 1-y O 3-δ con potencial aplicación como ánodo para celdas de combustible de óxido sólido. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2017, 56, 73-82.	0.9	5
81	Unusual properties of a model of an intergrain boundary in solid oxide ceramic electrolytes. Solid State Ionics, 2017, 302, 25-29.	1.3	2
82	Molecular and Dissociative Adsorption of Oxygen on Solid Oxide Fuel Cell Cathode Materials of La _{1–<i>x</i>} Sr _{<i>x</i>} CoO ₃ , La _{1–<i>x</i>} Sr _{<i>x</i>} Co _{1–<i>y</i>} Fe _{<i>y</i>} O _{3 and La_{1–<i>x</i>}St_{<i>x</i>}MnO₃Studied by}	<‡s∎ab>,	8
83	Temperature Programmed Desorption, Journal of Physical Chemistry C, 2017, 121, 14501 14508. High performance LaNi 1-x Co x O 3-δ (xÂ=Â0.4 to 0.7) infiltrated oxygen electrodes for reversible solid oxide cells. Journal of Power Sources, 2017, 353, 67-76.	4.0	35
84	Investigation of La1â^'Smâ^'Sr CoO3â^'δ cathode for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2017, 349, 130-137.	4.0	20
85	Improved electrochemical activity and stability of LaNi 0.6 Fe 0.4 O 3-δ cathodes achieved by an in - situ reaction. Electrochimica Acta, 2017, 236, 378-383.	2.6	8
86	Diversification Studies on Samarium Strontium Cobaltite Regarding Thermal & Structural Properties as Based Composite Cathode of SOFC. Materials Science Forum, 0, 888, 162-166.	0.3	1
87	Thermodynamic assessment of advanced SOFC-blade cooled gas turbine hybrid cycle. International Journal of Hydrogen Energy, 2017, 42, 10248-10263.	3.8	61
88	A phenomenological study of yttria-stabilized zirconia at 1300 K with the Green-Kubo formulation and equilibrium molecular dynamics. Chemical Physics, 2017, 485-486, 108-117.	0.9	9
89	Catalysts and Processes in Solid Oxide Fuel Cells. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , 155-221.	0.3	4
90	Coupling between creep and redox behavior in nickel - yttria stabilized zirconia observed in-situ by monochromatic neutron imaging. Journal of Power Sources, 2017, 340, 167-175.	4.0	17
91	Synergistic effects of thermal expansion-induced variation in the electrode microstructure on polarization loss in solid oxide fuel cells. Journal of Materials Chemistry A, 2017, 5, 2768-2773.	5.2	6
92	Direct thermolysis of CO ₂ into CO and O ₂ . Chemical Communications, 2017, 53, 1188-1191.	2.2	32

#	Article	IF	CITATIONS
93	A 2D and 3D X-ray μ-diffraction and μ-fluorescence study of a mixed ionic electronic conductor. International Journal of Hydrogen Energy, 2017, 42, 1203-1211.	3.8	15
94	Rapid, cool sintering of wet processed yttria-stabilized zirconia ceramic electrolyte thin films. Scientific Reports, 2017, 7, 12458.	1.6	9
95	Effect of Aluminum Titanate (Al 2 TiO 5) Doping on the Mechanical Performance of Solid Oxide Fuel Cell Ni‥SZ Anode. Fuel Cells, 2017, 17, 862-868.	1.5	7
96	BaO-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ Glass-Ceramic SOFCs Sealant: Effect of ZnO Additive. Key Engineering Materials, 2017, 751, 455-460.	0.4	5
97	Defect interaction and local structural distortions in Mg-doped LaGaO3: A combined experimental and theoretical study. Journal of Chemical Physics, 2017, 147, 144702.	1.2	4
98	Microstructure-scaled active sites imaging of a solid oxide fuel cell composite cathode. Journal of Power Sources, 2017, 367, 57-62.	4.0	14
99	Cathode-side electrical contact and contact materials for solid oxide fuel cell stacking: A review. International Journal of Hydrogen Energy, 2017, 42, 24278-24300.	3.8	50
100	NdBaMn2O5+l̃ layered perovskite as an active cathode material for solid oxide fuel cells. Ceramics International, 2017, 43, 15932-15938.	2.3	17
101	Energy related CO2 conversion and utilization: Advanced materials/nanomaterials, reaction mechanisms and technologies. Nano Energy, 2017, 40, 512-539.	8.2	221
102	Evaluation and Application of a Novel BaO–CaO–SiO2–CoO–B2O3 Based Glass-Ceramic Sealing Material for Solid Oxide Fuel Cells. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	1.1	3
103	Conductingâ€Polymerâ€Based Materials for Electrochemical Energy Conversion and Storage. Advanced Materials, 2017, 29, 1703044.	11.1	88
104	Novel materials for solid oxide fuel cell technologies: A literature review. International Journal of Hydrogen Energy, 2017, 42, 26020-26036.	3.8	297
105	High performance of protonic solid oxide fuel cell with BaCo0.7Fe0.22Sc0.08O3â^1̂ electrode. International Journal of Hydrogen Energy, 2017, 42, 25021-25025.	3.8	20
106	Modelling Microstructural and Chemical Degradation of Ferritic Stainless Steels for SOFC Interconnects. ECS Transactions, 2017, 78, 1565-1574.	0.3	2
107	A Novel SOFC/SOEC Sealing Glass with a Low SiO ₂ Content and a High Thermal Expansion Coefficient. ECS Transactions, 2017, 78, 1739-1747.	0.3	15
108	Life Cycle Assessment of microtubular solid oxide fuel cell based auxiliary power unit systems for recreational vehicles. Journal of Cleaner Production, 2017, 165, 312-322.	4.6	27
109	A novel layered perovskite electrode for symmetrical solid oxide fuel cells: PrBa(Fe0.8Sc0.2)2O5+δ. Journal of Power Sources, 2017, 363, 16-19.	4.0	46
110	Application of cascading thermoelectric generator and cooler for waste heat recovery from solid oxide fuel cells. Energy Conversion and Management, 2017, 148, 1382-1390.	4.4	148

#	ARTICLE	IF	CITATIONS
111	One new route to optimize the oxidation resistance of TiC/hastelloy (Ni-based alloy) composites applied for intermediate temperature solid oxide fuel cell interconnect by increasing graphite particle size. Journal of Power Sources, 2017, 362, 57-63.	4.0	11
112	In-depth study of the Ruddlesden-Popper LaxSr2â^'xMnO4±δ family as possible electrode materials for symmetrical SOFC. International Journal of Hydrogen Energy, 2017, 42, 21930-21943.	3.8	43
113	Comment for the discovery of a new type of solid oxide electrolyte. National Science Review, 2017, 4, 285-286.	4.6	0
114	High performance novel gadolinium doped ceria/yttria stabilized zirconia/nickel layered and hybrid thin film anodes for application in solid oxide fuel cells. Journal of Power Sources, 2017, 363, 251-259.	4.0	24
115	Advanced low-temperature ceramic nanocomposite fuel cells using ultra high ionic conductivity electrolytes synthesized through freeze-dried method and solid-route. Materials Today Energy, 2017, 5, 338-346.	2.5	38
116	Cellulose Microfibrils as a Pore Former in Electroless Co-Deposited Anodes for Solid Oxide Fuel Cells. ECS Transactions, 2017, 78, 1447-1456.	0.3	Ο
117	First principles DFT study of interstitial hydrogen and oxygen atoms in the MAX phase Ti ₂ AlN. RSC Advances, 2017, 7, 37852-37857.	1.7	10
118	Electrical Conductivity of NiO-Gadolinia Doped Ceria Anode Material for Intermediate Temperature Solid Oxide Fuel Cells. Nano Hybrids and Composites, 0, 17, 224-236.	0.8	13
119	Triode Solid Oxide Fuel Cell Operation Under Sulfurâ€Poisoning Conditions. Fuel Cells, 2017, 17, 457-463.	1.5	2
120	Converting Waste Toilet Paper into Electricity: A First‣tage Technoeconomic Feasibility Study. Energy Technology, 2017, 5, 2189-2197.	1.8	8
121	Affinity of YBaCo4O7+δ-based layered cobaltites with protonic conductors of cerate-zirconate family. Ceramics International, 2017, 43, 15418-15423.	2.3	19
122	The effect of powder grain size on the microstructure and electrical properties of 8 mol% Y ₂ O ₃ -stabilized ZrO ₂ . RSC Advances, 2017, 7, 39153-39159.	1.7	18
123	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. Carbon, 2017, 123, 605-615.	5.4	23
124	Cation Diffusion and Segregation at the Interface between Samarium-Doped Ceria and LSCF or LSFCu Cathodes Investigated with X-ray Microspectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 44466-44477.	4.0	19
125	A new route of synthesizing perovskite nanotubes by templating approach. AIP Conference Proceedings, 2017, , .	0.3	2
126	Study of the effect of methods for liquid-phase synthesis of nanopowders on the structure and physicochemical properties of ceramics in the CeO2–Y2O3 system. Russian Journal of Inorganic Chemistry, 2017, 62, 1275-1285.	0.3	18
127	Direct AC heating of oxygen transport membranes. Solid State Ionics, 2017, 312, 73-79.	1.3	15
128	Research on a low temperature reversible solid oxide cell. International Journal of Hydrogen Energy, 2017, 42, 29881-29887.	3.8	19

#	Article	IF	CITATIONS
129	A high performance supercapacitor based on decoration of MoS ₂ /reduced graphene oxide with NiO nanoparticles. RSC Advances, 2017, 7, 52772-52781.	1.7	65
130	Evaluation of Ag-doped (MnCo)3O4 spinel as a solid oxide fuel cell metallic interconnect coating material. International Journal of Hydrogen Energy, 2017, 42, 29511-29517.	3.8	21
131	Synthesis & characterization of Ti and Fe co-doped Ta2O5 based solid electrolytes for SOFC. Solid State Ionics, 2017, 312, 106-111.	1.3	2
132	Operando observation of nickel/ceria electrode surfaces during intermediate temperature steam electrolysis. Journal of Catalysis, 2017, 352, 305-313.	3.1	32
133	High figure of merit hydrogen sensor using multipolar plasmon resonance modes. Sensors and Actuators B: Chemical, 2017, 252, 385-390.	4.0	10
134	Advancements and confinements in hydrogen production technologies. , 2017, , 373-418.		13
135	Effect of Samaria Doped Ceria Impregnation on the Electrochemical Performance of Strontium Doped Lanthanum Chromium Manganite Anode for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F916-F922.	1.3	7
136	Water Splitting Using High Temperature Solid Oxide Photoelectrochemical Cell and Visible Sunlight: Searching for the Appropriate Semiconductor Materials. Journal of the Electrochemical Society, 2017, 164, H497-H502.	1.3	4
137	Texture-engineered ceramics—Property enhancements through crystallographic tailoring. Journal of Materials Research, 2017, 32, 3219-3241.	1.2	110
138	The oxidation resistance optimization of titanium carbide/hastelloy (Ni-based alloy) composites applied for intermediate-temperature solid oxide fuel cell interconnects. Journal of Power Sources, 2017, 359, 626-633.	4.0	8
139	Oxygenâ€ion conduction in scandiaâ€stabilized zirconiaâ€ceria solid electrolyte (<i>x</i> Sc ₂ O ₃ –1CeO ₂ –(99â~' <i>x</i>)ZrO ₂ ,) Tj ETQq	0 0.0 rgBT	/ Qv rerlock 10
140	One-step hydrothermal synthesis of LaFeO3 perovskite for methane steam reforming. Reaction Kinetics, Mechanisms and Catalysis, 2017, 120, 167-179.	0.8	24
141	Nanostructured zirconia thin film fabricated by electrophoretic deposition technique. Journal of Alloys and Compounds, 2017, 693, 1220-1230.	2.8	49
142	Degradation of oxygen reduction reaction kinetics in porous La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3-δ cathodes due to aging-induced changes in surface chemistry. Journal of Power Sources, 2017, 337, 166-172.	4.0	24
143	A detailed analysis of thermal and chemical compatibility of cathode materials suitable for BaCe0.8Y0.2O3â^î^´and BaZr0.8Y0.2O3â^îî´ proton electrolytes for solid oxide fuel cell application. International Journal of Hydrogen Energy, 2017, 42, 1715-1723.	3.8	53
144	Gd 0.8 Sr 0.2 CoO 3- δ–Sm 0.1 Ce 0.9 O 1.95 composite cathode for intermediate temperature solid oxide fuel cells. Materials Research Bulletin, 2017, 85, 30-34.	2.7	6
145	Proton-Conducting Electrolytes for Solid Oxide Fuel Cell Applications. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , 77-118.	0.3	12
146	Advances in Medium and High Temperature Solid Oxide Fuel Cell Technology. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , .	0.3	15

#	Article	IF	CITATIONS
147	Ceria-based electrolytes with high surface area and improved conductivity for intermediate temperature solid oxide fuel cells. Journal of Materials Science, 2017, 52, 519-532.	1.7	29
148	Preparation and characterization of nanopowder nickel oxide/gadolinium-doped ceria via the sol-gel method by NiLH2 precursor. Journal of Sol-Gel Science and Technology, 2017, 81, 236-246.	1.1	2
149	Thermo-electrical and structural properties of Gd2O3 and Lu2O3 double-doped Bi2O3. International Journal of Hydrogen Energy, 2017, 42, 614-622.	3.8	21
150	Protons and the hydrogen economy. MRS Energy & Sustainability, 2017, 4, 1.	1.3	1
152	Chemical potential distribution of nonhomogeneous solid electrolyte. , 2017, , .		0
153	Influence of cerium oxide on properties of glass–ceramic sealants for solid oxide fuel cells. Russian Journal of Applied Chemistry, 2017, 90, 1278-1284.	0.1	11
154	Volatile zirconium complexes with sterically hindered β-diketonates: Structure and thermal properties. Journal of Structural Chemistry, 2017, 58, 1530-1537.	0.3	3
155	Performance and evolution of planar copper-based anode-supported solid oxide fuel cells. Journal of the Ceramic Society of Japan, 2017, 125, 313-316.	0.5	4
156	Morphological and Physical Behaviour of LSCF-SDCC-Ag Composite Cathode with the Incorporation of Ag as an Additive Element. Journal of Physics: Conference Series, 2017, 914, 012011.	0.3	1
157	Heat Modeling and Material Development of Mg-Based Nanomaterials Combined with Solid Oxide Fuel Cell for Stationary Energy Storage. Energies, 2017, 10, 1767.	1.6	18
158	1.12 Microstructured Ceramic Hollow Fiber Membranes and Their Applications. , 2017, , 298-329.		6
159	Improved polarization behaviour of nanostructured La0.65Sr0.3MnO3 cathode withÂengineered morphology. International Journal of Hydrogen Energy, 2017, 42, 15347-15358.	3.8	17
160	Electrical and microstructural characterization of Gd-doped Ceria/Y-doped Zirconia bi-layer electrolyte prepared by tape casting. Revista Materia, 2017, 22, .	0.1	0
161	Characteristics of La0.8Sr0.2Ga0.8Mg0.2O3-δ-supported micro-tubular solid oxide fuel cells with LaCo0.4Ni0.6-xCuxO3-δ cathodes. International Journal of Hydrogen Energy, 2018, 43, 5703-5713.	3.8	4
163	Emission of white-light in cubic Y4Zr3O12:Yb3+ induced by a continuous infrared laser. Journal of Luminescence, 2018, 198, 320-326.	1.5	14
164	Preparation and properties of LSB-doped GDC electrolytes for intermediate temperature solid oxide fuel cells. Ionics, 2018, 24, 3543-3554.	1.2	2
165	Nanocrystalline gadolinium-doped ceria (GDC) for SOFCs by an environmentally-friendly single step method. Ceramics International, 2018, 44, 13286-13292.	2.3	25
166	Dense yttria-stabilized zirconia obtained by direct selective laser sintering. Additive Manufacturing, 2018, 21, 472-478.	1.7	41

#	Article	IF	CITATIONS
167	Electrode design for direct-methane micro-tubular solid oxide fuel cell (MT-SOFC). Journal of Power Sources, 2018, 384, 287-294.	4.0	30
168	Fuel Processing for Solid Oxide Fuel Cells. Green Energy and Technology, 2018, , 97-141.	0.4	1
169	Fabrication of aligned porous LaNi0.6Fe0.4O3 perovskite by water based freeze casting. Chemical Physics Letters, 2018, 700, 138-144.	1.2	18
170	Pd-impregnated Sr1.9VMoO6– double perovskite as an efficient and stable anode for solid-oxide fuel cells operating on sulfur-containing syngas. Electrochimica Acta, 2018, 274, 91-102.	2.6	44
171	Design of an innovative distributor to improve flow uniformity using cylindrical obstacles in header of a fuel cell. Energy, 2018, 152, 719-731.	4.5	40
172	Influence of excess sodium addition on the structural characteristics and electrical conductivity of Na0.5Bi0.5TiO3. Solid State Ionics, 2018, 317, 115-121.	1.3	25
173	Effect of nanograin–boundary networks generation on corrosion of carburized martensitic stainless steel. Scientific Reports, 2018, 8, 2289.	1.6	7
174	Oxidation, electrical and mechanical properties of Crofer ® 22 solid oxide fuel cell metallic interconnects manufactured through powder metallurgy. International Journal of Hydrogen Energy, 2018, 43, 10822-10833.	3.8	22
175	Direct Performance Simulation Based on the Microstructure of SOFC Electrodes: A Phase Field Approach. Minerals, Metals and Materials Series, 2018, , 503-513.	0.3	1
176	Effect of nano-size of functionalized silica on overall performance of swelling-filling modified Nafion membrane for direct methanol fuel cell application. Applied Energy, 2018, 213, 408-414.	5.1	73
177	Structure and chemistry of interfaces between ceria and yttria-stabilized zirconia studied by analytical STEM. Ultramicroscopy, 2018, 188, 90-100.	0.8	5
178	Resisting coking and sulfur poisoning of double perovskite Sr 2 TiFe 0.5 Mo 0.5 O 6â€"î´ anode material for solid oxide fuel cells. International Journal of Hydrogen Energy, 2018, 43, 3280-3290.	3.8	41
179	Conductive Nature of Grain Boundaries in Nanocrystalline Stabilized Bi ₂ O ₃ Thin-Film Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 6269-6275.	4.0	11
180	Nonprecious Metal Catalysts for Oxygen Reduction in Heterogeneous Aqueous Systems. Chemical Reviews, 2018, 118, 2313-2339.	23.0	642
181	Effects of zinc nitrate as a sintering aid on the electrochemical characteristics of Sr0.92Y0.08TiO3–δ and Sr0.92Y0.08Ti0.6Fe0.4O3–l´anodes. Ceramics International, 2018, 44, 4262-4270.	2.3	1
182	The role of (FeCrSi)2(MoNb)-type Laves phase on the formation of Mn-rich protective oxide scale on ferritic stainless steel. Corrosion Science, 2018, 132, 214-222.	3.0	21
183	Power unit SOFC-MTG model in Electromagnetic Transient Software PSCAD. International Journal of Hydrogen Energy, 2018, 43, 5386-5397.	3.8	5
184	Nanomaterials and technologies for low temperature solid oxide fuel cells: Recent advances, challenges and opportunities. Nano Energy, 2018, 45, 148-176.	8.2	363

#	Article	IF	CITATIONS
185	Strontium-free rare earth perovskite ferrites with fast oxygen exchange kinetics: Experiment and theory. Journal of Solid State Chemistry, 2018, 259, 57-66.	1.4	21
186	Approach to the Coulomb Contribution of Thermodynamic Properties from the Mean Electrostatic Potential of the Ions in (ZrO2)1–x(Y2O3)x. Journal of Physical Chemistry C, 2018, 122, 62-70.	1.5	3
187	Hydrothermal Synthesis and Characterization of an Apatiteâ€Type Lanthanum Silicate Ceramic for Solid Oxide Fuel Cell Electrolyte Applications. Energy Technology, 2018, 6, 1739-1746.	1.8	8
188	Fabrication of 3D Ni nanosheet array on Crofer22APU interconnect and NiO-YSZ anode support to sinter with small-size Ag nanoparticles for low-temperature sealing SOFCs. International Journal of Hydrogen Energy, 2018, 43, 2977-2989.	3.8	23
189	Rigid-resilient transition in calcium borosilicate sealing glass–ceramics: Effect of preferred orientation. Journal of the European Ceramic Society, 2018, 38, 2410-2416.	2.8	3
190	Structural analysis of Ce0.83Dy0.14Ca0.03O1.90 (CDC) and enhanced electrical conductivity of its composites with alkali carbonates for LT-SOFCs. Journal of Alloys and Compounds, 2018, 741, 532-541.	2.8	8
191	Electrochemical and thermal characterization of doped ceria electrolyte with lanthanum and zirconium. Ceramics International, 2018, 44, 6493-6499.	2.3	22
192	Specifics of the Electrical Properties of Composite Solid Oxide Membranes Based on SrTi0.5Fe0.5O3–δ. Technical Physics, 2018, 63, 398-406.	0.2	0
193	Electrochemical and electrical properties of doped CeO2-ZnO composite for low-temperature solid oxide fuel cell applications. Journal of Power Sources, 2018, 392, 33-40.	4.0	101
194	A novel in situ diffusion strategy to fabricate high performance cathodes for low temperature proton-conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2018, 6, 10411-10420.	5.2	34
195	3D and simplified pseudo-2D modeling of single cell of a high temperature solid oxide fuel cell to be used for online control strategies. International Journal of Hydrogen Energy, 2018, 43, 9733-9748.	3.8	24
196	Dual ionic conductive membrane for molten carbonate fuel cell. International Journal of Hydrogen Energy, 2018, 43, 8100-8104.	3.8	9
197	A-site deficient (La0.6Sr0.4)1–Co0.2Fe0.6Nb0.2O3– symmetrical electrode materials for solid oxide fuel cells. Electrochimica Acta, 2018, 270, 174-182.	2.6	53
198	Influence of synthesis conditions on phase formation and functional properties of prospective anode material Sr2Ni0.75Mg0.25MoO6-1´. Journal of Alloys and Compounds, 2018, 748, 671-678.	2.8	11
199	Electrical conductivity study of B-site Ga doped non-stoichiometric sodium bismuth titanate ceramics. Journal of Alloys and Compounds, 2018, 746, 54-61.	2.8	31
200	Experimental Investigation of Mechanical Properties of PMMA Nanocomposites Containing Various Contents of Prevalent Nanofillers from Multi-Criteria Decision Analysis Point of View. Journal of Mechanics, 2018, 34, 461-468.	0.7	9
201	Study the Properties of Gadolinium-Doped Ceria Nano-Powders Synthesized Via Sol–Gel Method with New Precursors. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 1969-1976.	0.7	2
202	The effect of synthesis and thermal treatment on phase composition and ionic conductivity of Na-doped SrSiO3. Solid State Ionics, 2018, 314, 172-177.	1.3	10

#	Article	IF	CITATIONS
203	Investigation into the dehydration of selenate doped Na2M(SO4)2·2H2O (M = Mn, Fe, Co and Ni): Stabilisation of the high Na content alluaudite phases Na3M1.5(SO4)3-1.5x(SeO4)1.5x (M = Mn, Co and Ni) through selenate incorporation. Journal of Solid State Chemistry, 2018, 258, 64-71.	1.4	20
204	Nanomaterials for solid oxide fuel cells: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 353-368.	8.2	333
205	Engineered co-precipitation chemistry with ammonium carbonate for scalable synthesis and sintering of improved Sm 0.2 Ce 0.8 O 1.90 and Gd 0.16 Pr 0.04 Ce 0.8 O 1.90 electrolytes for IT-SOFCs. Journal of Industrial and Engineering Chemistry, 2018, 59, 17-27.	2.9	43
206	Li ₂ NHâ€LiBH ₄ : a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. Chemistry - A European Journal, 2018, 24, 1342-1347.	1.7	16

207 Combustion synthesis and characterization of Ln1 $\hat{a}^{*}xMxCr0.9Ni0.1O3$ (Ln = La and/or Nd; M = Sr and/or) Tj ETQq0.0.0 rgBT $\frac{1}{5}$ Overlock 1

208	Improved microstructure and sintering temperature of bismuth nano-doped GDC powders synthesized by direct sol-gel combustion. Ceramics International, 2018, 44, 3800-3809.	2.3	66
209	Fabrication of a quasi-symmetrical solid oxide fuel cell using a modified tape casting/screen-printing/infiltrating combined technique. International Journal of Hydrogen Energy, 2018, 43, 960-967.	3.8	10
210	Interface stability between bare, Mn Co spinel coated AISI 441 stainless steel and a diopside-based glass-ceramic sealant. International Journal of Hydrogen Energy, 2018, 43, 1824-1834.	3.8	17
211	Mixed conducting molybdenum doped BSCF materials. Journal of Industrial and Engineering Chemistry, 2018, 59, 242-250.	2.9	27
212	Millimeter-wave irradiation heating for operation of doped CeO2 electrolyte-supported single solid oxide fuel cell. Journal of Power Sources, 2018, 374, 92-96.	4.0	14
213	YSZ/Al2O3 multilayer thick films deposited by spin coating using ceramic suspensions on Al2O3 polycrystalline substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 228, 60-66.	1.7	10
214	Fabrication and electrochemical performance of nickel- and gadolinium-doped ceria-infiltrated La O·2 Sr O·8 TiO 3 anodes for solid oxide fuel cells. Journal of Power Sources, 2018, 374, 181-187.	4.0	15
215	Investigating phase behavior and structural changes in NiO/Ni-YSZ composite with monochromatic in-situ 2D and static 3D neutron imaging. Physica B: Condensed Matter, 2018, 551, 24-28.	1.3	6
216	Characteristics of Sr0.92Y0.08Ti1-yNiyO3-δ anode and Ni-infiltrated Sr0.92Y0.08TiO3-δ anode using CH4 fuel in solid oxide fuel cells. Applied Surface Science, 2018, 429, 171-179.	3.1	14
217	On the manufacturing of low temperature activated Sr0.9La0.1TiO3-δ-Ce1-xGdxO2-δ anodes for solid oxide fuel cell. Journal of the European Ceramic Society, 2018, 38, 153-161.	2.8	14
218	Electrophoretic Deposited LSCF-SDCC-Ag Cathode Coating on Ferritic Stainless Steel Interconnect for SOFC. Journal of Physics: Conference Series, 2018, 1082, 012028.	0.3	0
219	Nanostructured Pure and Doped Zirconia: Synthesis and Sintering for SOFC and Optical Applications. , 0, , .		3
220	Investigation of laser-induced inter-welding between Au and Ag nanoparticles and the plasmonic properties of welded dimers. Nanoscale, 2018, 10, 23050-23058.	2.8	9

#	Article	IF	CITATIONS
221	Proton-mediated energy storage in intermediate-temperature solid-oxide metal–air batteries. Journal of Materials Chemistry A, 2018, 6, 20659-20662.	5.2	8
222	Influence of Heat Treatment and Milling Speed on Phase Stability of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2Composite Cathode Solid Oxide Fuel Cell. Key Engineering Materials, 0, 791, 66-73.}	0&g t; 0<	su b >3-Î′&
224	4. Battery Materials. , 2018, , 75-260.		0
225	Epitaxial Yttria-Stabilized Zirconia on Muscovite for Flexible Transparent Ionic Conductors. ACS Applied Nano Materials, 2018, 1, 6890-6896.	2.4	10
226	A review of key parameters for effective electrophoretic deposition in the fabrication of solid oxide fuel cells. Journal of Zhejiang University: Science A, 2018, 19, 811-823.	1.3	24
227	Solid Oxide Electrochemical Systems: Material Degradation Processes and Novel Mitigation Approaches. Materials, 2018, 11, 2169.	1.3	37
228	Morphological and Physical Behaviour on the Sm0.5Sr0.5CoO3-Î′/Sm0.2 Ce0.8O1.9 Incorporation with Binary Carbonate as Potential Cathode Materials for SOFC. Key Engineering Materials, 0, 791, 59-65.	0.4	1
229	Characterization of Solid Oxide Fuel Cells with LSCF-SDC Composite Cathodes. Journal of Energy, 2018, 2018, 1-7.	1.4	7
230	In Situ Impedance Analysis of Oxygen Exchange on Growing La _{0.6} Sr _{0.4} CoO _{3â^Î} Thin Films. ACS Applied Energy Materials, 2018, 1, 4522-4535.	2.5	19
231	Sr Segregation in Perovskite Oxides: Why It Happens and How It Exists. Joule, 2018, 2, 1476-1499.	11.7	255
232	Improving anti-oxidation performance of 430 SS by fabricating co-contained spinel coating as solid oxide fuel cells interconnect. Anti-Corrosion Methods and Materials, 2018, 65, 547-557.	0.6	4
233	Synthesis and Physicochemical Properties of Nanopowders and Ceramics in a CeO2–Gd2O3 System. Glass Physics and Chemistry, 2018, 44, 314-321.	0.2	15
234	Exploring the Properties and Fuel Cell Applications of Ultrathin Atomic Layer Deposited Metal Oxide Films. , 2018, , 83-114.		8
235	Synthesis and characterization of (Bi2O3)1â^'â^'â^'(Gd2O3) (Sm2O3) (Eu2O3) quaternary solid solutions for solid oxide fuel cell. Chinese Journal of Physics, 2018, 56, 2958-2966.	2.0	10
236	A Strategy to Mitigate Grain Boundary Blocking in Nanocrystalline Zirconia. Journal of Physical Chemistry C, 2018, 122, 26344-26352.	1.5	8
237	Gas Humidification Impact on the Properties and Performance of Perovskiteâ€Type Functional Materials in Protonâ€Conducting Solid Oxide Cells. Advanced Functional Materials, 2018, 28, 1802592.	7.8	82
238	A Fuzzy Adaptive PID Controller Design for Fuel Cell Power Plant. Sustainability, 2018, 10, 2438.	1.6	29
239	A high performance composite cathode with enhanced CO2 resistance for low and intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2018, 405, 124-131.	4.0	31

#	Article	IF	CITATIONS
240	Low Temperature Electrochemical Deposition of Aluminum in Organic Bases/Thiourea-Based Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2018, 6, 15480-15486.	3.2	18
241	Metal oxide redox chemistry for chemical looping processes. Nature Reviews Chemistry, 2018, 2, 349-364.	13.8	352
242	Reactivity of Amorphous Carbon Surfaces: Rationalizing the Role of Structural Motifs in Functionalization Using Machine Learning. Chemistry of Materials, 2018, 30, 7446-7455.	3.2	77
243	The Reduction Properties of M–Doped (M=Zr, Gd) CeO ₂ /YSZ Scaffolds Co–Infiltrated with Nickel. Energy Technology, 2018, 6, 2045-2052.	1.8	8
244	Evaluating microstructure evolution in an SOFC electrode using digital volume correlation. Sustainable Energy and Fuels, 2018, 2, 2625-2635.	2.5	4
245	Interface formation and Mn segregation of directly assembled La0.8Sr0.2MnO3 cathode on Y2O3-ZrO2 and Gd2O3-CeO2 electrolytes of solid oxide fuel cells. Solid State Ionics, 2018, 325, 176-188.	1.3	19
246	Oxidation resistance optimization of TiC/hastelloy composites by adding Ta element applied for intermediate temperature solid oxide fuel cell interconnects. Journal of Power Sources, 2018, 401, 1-5.	4.0	9
247	Clean energy generation using groundnut oil mill effluent with microbial fuel-cell. Nigerian Journal of Technology, 2018, 37, 1076.	0.2	1
248	A Diffusivity Study of (Sc2O3)0.1(CeO2)0.01(ZrO2)0.89 between 1100 and 1500 K at Zero Pressure with Molecular Dynamics. Journal of Chemical & Engineering Data, 2018, 63, 1955-1960.	1.0	5
249	Emergence of microstructure and oxygen diffusion in yttrium-stabilized cubic zirconia. Physical Review B, 2018, 97, .	1.1	5
250	Influence of the porosity caused by incomplete sintering on the mechanical behaviour of lanthanum silicate oxyapatite. Ceramics International, 2018, 44, 14348-14354.	2.3	6
251	Novel glass-ceramic SOFC sealants from glass powders and a reactive silicone binder. Journal of the European Ceramic Society, 2018, 38, 4245-4251.	2.8	40
252	Development of the Cathode Materials for Intermediate-Temperature SOFCs Based on Proton-Conducting Electrolytes. Innovation and Discovery in Russian Science and Engineering, 2018, , 173-180.	0.2	1
253	Recent Uses of Carbon Fibers. Springer Series in Materials Science, 2018, , 241-277.	0.4	0
254	Mechanosynthesis of Sr1-xLaxTiO3 anodes for SOFCs: Structure and electrical conductivity. Journal of Alloys and Compounds, 2018, 763, 679-686.	2.8	16
255	Determination of oxygen vacancy limit in Mn substituted yttria stabilized zirconia. Journal of Applied Physics, 2018, 123, 185108.	1.1	3
256	Structural, mechanical, thermal and optical properties of Yb, Pr-doped Y4Zr3O12 ceramics. Ceramics International, 2018, 44, 17681-17687.	2.3	5
257	Effect of the carbonate environment on morphology and sintering behaviour of variously co-doped (Ca, Sr, Er, Pr) Samarium-doped Ceria in co-precipitation/hydrothermal synthesis. Ceramics International, 2018, 44, 17935-17944.	2.3	38

#	Article	IF	Citations
259	Preparation and characterization of GdSmZr2O7–(Li0.52Na0.48)2CO3 composite electrolyte for intermediate temperature solid oxide fuel cells. Electrochimica Acta, 2018, 283, 291-299.	2.6	8
260	XPS Studies of LSCF Interfaces after Cell Testing. Advances in Materials Science and Engineering, 2018, 2018, 1-6.	1.0	1
261	Spark plasma sintering of nanopowders in the CeO2-Y2O3 system as a promising approach to the creation of nanocrystalline intermediate-temperature solid electrolytes. Ceramics International, 2018, 44, 19879-19884.	2.3	28
262	Computational and Experimental Investigations of Defect Interaction and Ionic Conductivity in Doped Zirconia. Physical Review Applied, 2018, 10, .	1.5	6
263	Influence of the autocombustion synthesis conditions and the calcination temperature on the microstructure and electrochemical properties of BaCe0.8Zr0.1Y0.1O3â^1^ electrolyte material. Solid State Ionics, 2018, 325, 48-56.	1.3	5
264	Performance evaluation of a new Fe-Cr-Mn alloy in the reducing atmosphere of solid oxide fuel cells. Journal of Alloys and Compounds, 2018, 769, 866-872.	2.8	12
265	Effects of co-doped barium cerate additive on morphology, conductivity and electrochemical properties of samarium doped ceria electrolyte for intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2018, 43, 16293-16301.	3.8	14
266	Synthesis and Characterization of Bi0.85â^'xCa0.15ZrxO1.5â [~] î´ Oxygen Ion Conductors. Journal of Electronic Materials, 2018, 47, 5833-5841.	1.0	5
267	Heat capacity of bismuth-cobalt oxide doped by erbium in the temperature range of 193–547â€ [–] K. Journal of Chemical Thermodynamics, 2018, 127, 80-85.	1.0	2
268	Application of sputtered NiFe2 alloy coating for SOFC interconnect steel. Journal of Alloys and Compounds, 2018, 769, 120-129.	2.8	29
269	Electricity/hydrogen conversion by the means of a protonic ceramic electrolysis cell with Nd2NiO4+δ-based oxygen electrode. Energy Conversion and Management, 2018, 172, 129-137.	4.4	42
270	DBD Plasma-ZrO2 Catalytic Decomposition of CO2 at Low Temperatures. Catalysts, 2018, 8, 256.	1.6	36
271	Study on Zinc Oxide-Based Electrolytes in Low-Temperature Solid Oxide Fuel Cells. Materials, 2018, 11, 40.	1.3	69
272	Comprehensive Analysis of Trends and Emerging Technologies in All Types of Fuel Cells Based on a Computational Method. Sustainability, 2018, 10, 458.	1.6	32
273	Defects in orthorhombic LaMnO ₃ – ionic <i>versus</i> electronic compensation. Physical Chemistry Chemical Physics, 2018, 20, 19257-19267.	1.3	3
274	A novel comprehensive procedure for determination of optimum operating conditions for cleaner energy production system. International Journal of Energy Research, 2018, 42, 3339-3350.	2.2	4
275	Densification Kinetics of CeO2 Reinforced 8ÂMol.% Y2O3 Stabilized ZrO2 Ceramics. Jom, 2018, 70, 1937-1945.	0.9	3
276	Multiphysics Modelling of Energy Systems. , 2018, , 211-236.		1

#	Article	IF	Citations
277	Fuel Cells: History (Short Remind), Principles of Operation, Main Features, and Applications. , 2018, , 123-150.		6
278	Enhancement of oxygen reduction reaction through coating a nano-web-structured La0.6Sr0.4Co0.2Fe0.8O3-δthin-film as a cathode/electrolyte interfacial layer for lowering the operating temperature of solid oxide fuel cells. Journal of Power Sources, 2018, 392, 123-128.	4.0	24
279	Auto-combustion synthesis and electrochemical studies of La0.6Sr0.4Co0.2Fe0.8O3-δ– Ce0.8Sm0.1Gd0.1O1.90 nanocomposite cathode for intermediate temperature solid oxide fuel cells. Ceramics International, 2018, 44, 21188-21196.	2.3	27
280	Morphological and Structural Characterization of YSZ Thin Film Fabricated by Electrophoretic Deposition on LSM/YSZ Substrate. Key Engineering Materials, 2018, 775, 224-228.	0.4	0
281	Fabrication of an all solid-state electrochromic device using zirconium dioxide as an ion-conducting layer. Thin Solid Films, 2018, 664, 70-78.	0.8	7
282	EPR study of ceria nanoparticles containing different concentration of Ce3+ ions. Materials Chemistry and Physics, 2018, 219, 251-257.	2.0	21
283	Positive electrodes based on Ion-implanted SrTiO3. Physical Sciences Reviews, 2018, 3, .	0.8	0
284	Interfacial effect on oxidation resistance of TiC/hastelloy composites applied for intermediate-temperature solid oxide fuel cell interconnects. Corrosion Science, 2018, 143, 292-298.	3.0	4
286	How To Get Mechanistic Information from Partial Pressure-Dependent Current–Voltage Measurements of Oxygen Exchange on Mixed Conducting Electrodes. Chemistry of Materials, 2018, 30, 4242-4252.	3.2	27
287	Novel ReBaCo _{1.5} Mn _{0.5} O _{5+Î'} (Re: La, Pr, Nd, Sm, Gd and Y) perovskite oxide: influence of manganese doping on the crystal structure, oxygen nonstoichiometry, thermal expansion, transport properties, and application as a cathode material in solid oxide fuel cells. Iournal of Materials Chemistry A. 2018. 6. 13271-13285.	5.2	30
288	A feasible way to handle the heat management of direct carbon solid oxide fuel cells. Applied Energy, 2018, 226, 881-890.	5.1	25
289	Designing a protonic ceramic fuel cell with novel electrochemically active oxygen electrodes based on doped Nd _{0.5} Ba _{0.5} FeO _{3â^î^} . Dalton Transactions, 2018, 47, 8149-8157.	1.6	35
290	Improving the sealing performance of glass-ceramics for SOFCs applications by a unique â€~composite' approach: A study on Na2O-SiO2 glass-ceramic system. Journal of the European Ceramic Society, 2018, 38, 4488-4494.	2.8	13
291	Synthesis and Stability of SrxNiyOzChromium Getter for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F635-F640.	1.3	10
292	Preparation and properties of lanthanum (La) and indium (In) co-doped ceria system for IT-SOFC. lonics, 2019, 25, 1747-1757.	1.2	5
293	Wetting and interfacial behavior of Sn–Ti alloys on zirconia. Journal of Materials Science, 2019, 54, 812-822.	1.7	24
294	Comparison of electrochemical hydrogen oxidation on different metal/ceramic model anodes and mechanistic implications. JPhys Energy, 2019, 1, 035001.	2.3	3
295	Co-infiltration of Nickel and Mixed Conducting Gd0.1Ce0.9O2â^î^ and La0.6Sr0.3Ni0.15Cr0.85O3â^î^ Phases in Ni-YSZ Anodes for Improved Stability and Performance. Jom, 2019, 71, 3835-3847.	0.9	7

#	Article	IF	CITATIONS
296	A comprehensive thermodynamic analysis of a novel CHP system based on SOFC and APC cycles. Energy, 2019, 186, 115899.	4.5	134
297	Improving the electrochemical performance of LaPrNiO4+l̂´ as an oxygen electrode for intermediate temperature solid oxide cells by varying the architectural design. Journal of Electroanalytical Chemistry, 2019, 849, 113373.	1.9	4
298	Kinetics of Sulfur Removal from Tehran Vehicular Gasoline by g-C3N4/SnO2 Nanocomposite. ACS Omega, 2019, 4, 13180-13188.	1.6	11
299	Effect of sintering temperature on properties of LiNiCuZn-Oxide: a potential anode for solid oxide fuel cell. Materials Research Express, 2019, 6, 105505.	0.8	3
300	The Current-Voltage Characteristics and Partial Pressure Dependence of Defect Controlled Electrochemical Reactions on Mixed Conducting Oxides. Journal of the Electrochemical Society, 2019, 166, F831-F846.	1.3	15
301	Unprecedented rock-salt ordering of A and B cations in the double perovskite Nd _{2â^x} Ca _x MgTiO _{6â^îſ} and defect association. Dalton Transactions, 2019, 48, 13651-13661.	1.6	Ο
302	Nickel-copper based anodes for solid oxide fuel cells running on hydrogen and biogas: Study using ceria-based electrolytes with electronic short-circuiting correction. Journal of Power Sources, 2019, 438, 227041.	4.0	21
303	Hot corrosion of yttria-stabilized zirconia by liquid antimony and antimony oxide. Journal of Power Sources, 2019, 434, 226764.	4.0	8
304	ReBaCo2-xMnxO5+l̂´ (Re: rare earth element) layered perovskites for application as cathodes in Solid Oxide Fuel Cells. E3S Web of Conferences, 2019, 108, 01020.	0.2	5
305	Low Ni-Containing Cermet Anodes of Solid Oxide Fuel Cells with Size-Controlled Samarium-Doped Ceria Particles. Journal of the Electrochemical Society, 2019, 166, F716-F723.	1.3	4
306	Direct-Write Lithiation of Silicon Using a Focused Ion Beam of Li ⁺ . ACS Nano, 2019, 13, 8012-8022.	7.3	6
307	Aluminum dual doping and oxygen transport pathway in novel Sr11Mo4â~'xAlxO23 oxide-ion solid electrolytes. Solid State Ionics, 2019, 339, 115003.	1.3	4
308	Structure and electrical properties of YSZ-rGO composites and YSZ ceramics, obtained from composite powder. Electrochimica Acta, 2019, 320, 134573.	2.6	25
309	Recent advances in material and performance aspects of solid oxide fuel cells. Journal of Electroanalytical Chemistry, 2019, 848, 113315.	1.9	79
310	Sub-kilogram-scale synthesis of highly dispersible zirconia nanoparticles for hybrid optical resins. Applied Surface Science, 2019, 491, 505-516.	3.1	11
311	WWMOD? What would metal oxides do?: Redefining their applicability in today's energy technologies. Polyhedron, 2019, 170, 334-358.	1.0	8
312	Effect of pre-calcined ceramic powders at different temperatures on Ni-YSZ anode-supported SOFC cell/stack by low pressure injection molding. Ceramics International, 2019, 45, 20066-20072.	2.3	23
313	Highly Dispersive Mono-sized Nanoparticles of Y ₂ O ₃ -stabilized ZrO ₂ . Chemistry Letters, 2019, 48, 390-393.	0.7	2

#	Article	IF	CITATIONS
314	Vanadium-Doped Strontium Molybdate with Exsolved Ni Nanoparticles as Anode Material for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 42271-42279.	4.0	24
315	Formation of a non-magnetic, odd-denominator fractional quantized conductance in a quasi-one-dimensional electron system. Applied Physics Letters, 2019, 115, 123104.	1.5	5
316	Mn-rich SmBaCo0.5Mn1.5O5+l̃´double perovskite cathode material for SOFCs. International Journal of Hydrogen Energy, 2019, 44, 27587-27599.	3.8	18
317	Tuning the Energy Band Structure at Interfaces of the SrFe _{0.75} Ti _{0.25} O _{3â°î} –Sm _{0.25} Ce _{0.75} O <sub Heterostructure for Fast Ionic Transport. ACS Applied Materials & Interfaces, 2019, 11, 38737-38745.</sub 	b> 2⊫ ∂0δ <td>ub97</td>	ub97
318	Codoped Ceria Ce _{0.8} M _{0.1} Gd _{0.1} O _{2â[^]Î} (M =) Tj ETQq0 0 0 Ceria–Na ₂ CO ₃ Nanocomposite Electrolytes for Solid Oxide Fuel Cells. ACS Applied Nano Materials, 2019, 2, 6300-6311.	rgBT /Ove 2.4	rlock 10 Tf 50 18
319	Lattice Boltzmann modelling of the coupling between charge transport and electrochemical reactions in a solid oxide fuel cell with a patterned anode. International Journal of Hydrogen Energy, 2019, 44, 30293-30305.	3.8	11
320	Technical analysis of a hybrid solid oxide fuel cell/gas turbine cycle. Energy Conversion and Management, 2019, 202, 112195.	4.4	24
321	In-situ strategy to suppress chromium poisoning on La0.6Sr0.4Co0.2Fe0.8O3-Î′ cathodes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2019, 44, 30401-30408.	3.8	16
322	BaCo 1â€x NbxO 3â^δas a Promising Cathode for Intermediate Temperature Solid Oxide Fuel Cells. ChemistrySelect, 2019, 4, 10851-10855.	0.7	4
323	Influence of yttria and ytterbia doping on phase stability and ionic conductivity of ScSZ solid electrolytes. Materials Research Express, 2019, 6, 105534.	0.8	9
324	Effect of Thermal Aging on the Phase Stability of 1Yb ₂ O ₃ – <i>x</i> Sc ₂ O ₃ –(99 –) Tj ETQq0 0 0 rgBT /0	Dve rla ck 1	0 T£650 337 T
325	Functionally Graded IT-MOFC Electrolytes Based on Highly Conductive δ-Bi2O3–0.2 wt % B2O3 Composite with Molten Grain Boundaries. ACS Applied Energy Materials, 2019, 2, 6860-6865.	2.5	10
326	Graphene Incorporated Nanocomposite Anode for Low Temperature SOFCs. Journal of Electronic Materials, 2019, 48, 7507-7514.	1.0	8
327	Effect of Titania Doping on Structural and Mechanical Properties of NiO/YSZ Anode Materials Sintered by Using Microwave Energy. Jom, 2019, 71, 3796-3805.	0.9	1
328	Synthesis and characterization of ZrO2 and YSZ thin films. Materials Today: Proceedings, 2019, 14, 92-95.	0.9	7
329	Electrochemical characterization of Fe–rich BaFe0.7Co0.2Nb0.1O3– as cathode material for IT–SOFC. Solid State Sciences, 2019, 97, 106005.	1.5	10
330	Efficient and stable symmetrical electrode La0.6Sr0.4Co0.2Fe0.7Mo0.1O3–δ for direct hydrocarbon solid oxide fuel cells. Electrochimica Acta, 2019, 323, 134857.	2.6	18
331	Effects of thymosin β4 on neuronal apoptosis in a rat model of cerebral ischemia‑reperfusion injury. Molecular Medicine Reports, 2019, 20, 4186-4192.	1.1	5

#	Article	IF	CITATIONS
332	Oxygen vacancy ordering and viscoelastic mechanical properties of doped ceria ceramics. Scripta Materialia, 2019, 163, 19-23.	2.6	15
333	Effect of nickel doping on structure and suppressing boron volatility of borosilicate glass sealants in solid oxide fuel cells. Journal of the European Ceramic Society, 2019, 39, 2179-2185.	2.8	7
334	Crystallization kinetics and phase transformation of glass-ceramic seals for solid oxide fuel cell application. Journal of Alloys and Compounds, 2019, 786, 544-550.	2.8	15
335	Phase stability and conductivity in the pseudo ternary system of xYb2O3-(12-x)Sc2O3-88ZrO2 (0â€`â‰ a €`xâ€`â Solid State Ionics, 2019, 332, 93-101.	‰ ۇ €⁻5). 1.3	19
336	Effect of electric load and dual atmosphere on the properties of an alkali containing diopside-based glass sealant for solid oxide cells. Journal of Power Sources, 2019, 415, 15-24.	4.0	28
337	Co-electrolysis of H2O-CO2 in a solid oxide electrolysis cell with symmetrical La0.4Sr0.6Co0.2Fe0.7Nb0.1O3â^î´ electrode. Journal of Electroanalytical Chemistry, 2019, 836, 107-111.	1.9	25
338	High-throughput 3D reconstruction of stochastic heterogeneous microstructures in energy storage materials. Npj Computational Materials, 2019, 5, .	3.5	18
339	Magnetic Alignment of Anode Microstructure in Solid Oxide Fuel Cell. Journal of the Electrochemical Society, 2019, 166, F144-F148.	1.3	4
340	Preparation of thin electrolyte film via dry pressing/heating /quenching/calcining for electrolyte-supported SOFCs. Ceramics International, 2019, 45, 9866-9870.	2.3	20
341	High oxide ion conductivity in layer-structured Bi ₄ Ti ₃ O ₁₂ -based ferroelectric ceramics. Journal of Materials Chemistry C, 2019, 7, 8825-8835.	2.7	38
342	Microscopic ion migration in solid electrolytes revealed by terahertzÂtime-domainÂspectroscopy. Nature Communications, 2019, 10, 2662.	5.8	28
343	Synthesis of BaCe0.9xZrxY0.1O3 nanopowders and the study of proton conductors fabricated on their basis by low-temperature spark plasma sintering. International Journal of Hydrogen Energy, 2019, 44, 20345-20354.	3.8	37
344	Tailoring Ni and Sr2Mg0.25Ni0.75MoO6â~'δCermet Compositions for Designing the Fuel Electrodes of Solid Oxide Electrochemical Cells. Energies, 2019, 12, 2394.	1.6	8
345	In-situ Cu-doped MnCo-spinel coatings for solid oxide cell interconnects processed by electrophoretic deposition. Ceramics International, 2019, 45, 19148-19157.	2.3	41
346	Modeling and Optimization of the BSCF-Based Single-Chamber Solid Oxide Fuel Cell by Artificial Neural Network and Genetic Algorithm. Journal of Chemistry, 2019, 2019, 1-9.	0.9	6
347	Recent Advances in the Understanding of the Evolution of Surfaces and Interfaces in Solid Oxide Cells. Advanced Materials Interfaces, 2019, 6, 1900580.	1.9	16
348	Application of a NiMo–Ce0.5Zr0.5O2-δ catalyst for solid oxide fuel cells running on gasoline. Journal of Power Sources, 2019, 435, 226732.	4.0	39
349	A Novel Approach for Fabricating LaMnO ₃ Thin Films Using Combined Microwave Combustion and Pulsed Electron Deposition Techniques. Journal of Chemistry, 2019, 2019, 1-8.	0.9	2

#	Article	IF	CITATIONS
350	Hole conductivity in the electrolyte of proton-conducting SOFC: Mathematical model and experimental investigation. Journal of Alloys and Compounds, 2019, 801, 343-351.	2.8	10
351	Development and Validation of Chromium Getters for Solid Oxide Fuel Cell Power Systems. Journal of Visualized Experiments, 2019, , .	0.2	1
352	A novel multilaminated composite cathode for solid oxide fuel cells. Ceramics International, 2019, 45, 18124-18127.	2.3	8
353	Fabrication of a double-layered Co-Mn-O spinel coating on stainless steel via the double glow plasma alloying process and preoxidation treatment as SOFC interconnect. International Journal of Hydrogen Energy, 2019, 44, 18415-18424.	3.8	23
354	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. Progress in Materials Science, 2019, 106, 100574.	16.0	184
355	Solid-State Electrolytes and Electrode Materials for Fuel Cell Application. Transactions of the Indian Institute of Metals, 2019, 72, 2073-2090.	0.7	2
356	Zirconia: A Unique Multifunctional Ceramic Material. Transactions of the Indian Institute of Metals, 2019, 72, 1981-1998.	0.7	16
357	Recent Progress in Polysulfide Redoxâ€Flow Batteries. Batteries and Supercaps, 2019, 2, 627-637.	2.4	52
358	Antioxidant properties of ALD grown nanoceria films with tunable valency. Biomaterials Science, 2019, 7, 3051-3061.	2.6	20
359	Characterization of Ta/W co-doped SrFeO3- perovskite as cathode for solid oxide fuel cells. Journal of Alloys and Compounds, 2019, 797, 205-212.	2.8	55
360	Performance characteristics of a passive direct ethylene glycol fuel cell with hydrogen peroxide as oxidant. Applied Energy, 2019, 250, 846-854.	5.1	51
361	Electrophoretic co-deposition of Fe2O3 and Mn1,5Co1,5O4: Processing and oxidation performance of Fe-doped Mn-Co coatings for solid oxide cell interconnects. Journal of the European Ceramic Society, 2019, 39, 3768-3777.	2.8	42
362	Investigation of Sr, Mg codoped Na0.5Bi0.5TiO3 oxide ion conductor prepared by spark plasma sintering. lonics, 2019, 25, 4265-4271.	1.2	7
363	Modelling of a hybrid system for on-site power generation from solar fuels. Applied Energy, 2019, 240, 709-718.	5.1	11
364	Structural transformation-induced surface strengthening of borosilicate sealing glass for solid oxide fuel cells. Ceramics International, 2019, 45, 15629-15635.	2.3	4
365	Enhancing coking resistance of Ni/YSZ electrodes: In situ characterization, mechanism research, and surface engineering. Nano Energy, 2019, 62, 64-78.	8.2	75
366	Fabrication and Electrochemical Performance of Zn-Doped La0.2Sr0.25Ca0.45TiO3 Infiltrated with Nickel-CGO, Iron, and Cobalt as an Alternative Anode Material for Solid Oxide Fuel Cells. Catalysts, 2019, 9, 269.	1.6	5
367	Influence of preoxidation on high temperature behavior of NiFe2 coated SOFC interconnect steel. International Journal of Hydrogen Energy, 2019, 44, 13744-13756.	3.8	16

#	Article	IF	CITATIONS
368	Chemical synthesis of materials based on calcium zirconate for solid oxide fuel cells (SOFC). Environmental Progress and Sustainable Energy, 2019, 38, e13243.	1.3	7
369	A novel dual phase BaCe0.5Fe0.5O3-δ cathode with high oxygen electrocatalysis activity for intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2019, 44, 15400-15408.	3.8	9
370	Proton conducting oxides: A review of materials and applications for renewable energy conversion and storage. Renewable and Sustainable Energy Reviews, 2019, 109, 606-618.	8.2	137
371	Performance assessment of an advanced triple-cycle system based upon solid oxide fuel cells, vacuum thermionic generators and absorption refrigerators. Energy Conversion and Management, 2019, 193, 64-73.	4.4	36
372	Ni-Mn ₃ O ₄ Composite Coating by Electrophoresis/Electrodeposition for Metallic Interconnects Applications. Journal of the Electrochemical Society, 2019, 166, F423-F430.	1.3	9
373	Synthesis and Performance Tuning of Sm0.2Ce0.8O2â^î́ Electrolyte for Low Temperature Solid Oxide Fuel Cell Application. Journal of Electronic Materials, 2019, 48, 4117-4124.	1.0	4
374	Electrochemical Ceramic Membrane Reactors in Future Energy and Chemical Process Engineering. Chemie-Ingenieur-Technik, 2019, 91, 809-820.	0.4	8
375	Investigation of Ni-coated-steel-meshes as alternative anode contact material to nickel in anÂSOFC stack. International Journal of Hydrogen Energy, 2019, 44, 8493-8501.	3.8	5
376	Kinetic model of a plate fin heat exchanger with catalytic coating as a steam reformer of methane, biogas, and dimethyl ether. International Journal of Energy Research, 2019, 43, 2930-2939.	2.2	6
377	Performance of La0.5Sr1.5MnO4±δRuddlesden-Popper manganite as electrode material for symmetrical solid oxide fuel cells. Part A. The oxygen reduction reaction. Electrochimica Acta, 2019, 304, 415-427.	2.6	23
378	Nb-doped Sr2Fe1.5Mo0.5O6-δ electrode with enhanced stability and electrochemical performance for symmetrical solid oxide fuel cells. Ceramics International, 2019, 45, 15696-15704.	2.3	60
379	Review of proton- and oxide-ion-conducting perovskite materials for SOFC applications. Nanomaterials and Energy, 2019, 8, 51-58.	0.1	15
380	Powering Solid Oxide Fuel Cells with Syngas Using La 0.4 Sr 0.5 Ba 0.1 TiO 3 Anode Infitrated with Nanoâ€composite. Fuel Cells, 2019, 19, 141-146.	1.5	1
381	Shaping triple-conducting semiconductor BaCo0.4Fe0.4Zr0.1Y0.1O3-δ into an electrolyte for low-temperature solid oxide fuel cells. Nature Communications, 2019, 10, 1707.	5.8	218
382	Cluster Expansion Framework for the Sr(Ti1–xFex)O3–x/2 (0 < x < 1) Mixed Ionic Electronic Conductor: Properties Based on Realistic Configurations. Chemistry of Materials, 2019, 31, 3144-3153.	3.2	6
383	Nickel enriched Ruddlesden-Popper type lanthanum strontium manganite as electrode for symmetrical solid oxide fuel cell. Journal of Power Sources, 2019, 425, 153-161.	4.0	35
384	Effect of BaO B2O3 composite sintering aid on sinterability and electrical property of BaZr0.85Y0.15O3-ceramic. Ceramics International, 2019, 45, 13679-13684.	2.3	14
385	Fabrication of an anode functional layer for an electrolyte-supported solid oxide fuel cell using electrohydrodynamic jet printing. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2019, 10, 015004.	0.7	5

#	Article	IF	CITATIONS
386	Highly conducting perovskite structured (M-SrCoFe-O3-Î′, M = Ce, Ba) cathode for solid oxide fuel cell. Journal of Alloys and Compounds, 2019, 791, 248-254.	2.8	11
387	Variable-Temperature Multinuclear Solid-State NMR Study of Oxide Ion Dynamics in Fluorite-Type Bismuth Vanadate and Phosphate Solid Electrolytes. Chemistry of Materials, 2019, 31, 1704-1714.	3.2	16
388	Improving the interface adherence at sealings in solid oxide cell stacks. Journal of Materials Research, 2019, 34, 1167-1178.	1.2	12
389	Emerging Nanomaterials in Energy and Environmental Science: An Overview. Environmental Chemistry for A Sustainable World, 2019, , 1-49.	0.3	1
390	Boosting the oxygen reduction reaction of the misfit [Ca2CoO3-Î]q[CoO2] (C349) by the addition of praseodymium oxide. Journal of Alloys and Compounds, 2019, 788, 148-154.	2.8	22
391	New insights into element migration on La0.6Sr0.4Co0.2Fe0.8O3-Î′ cathodes of intermediate temperature solid oxide fuel cells. Solid State Ionics, 2019, 334, 145-151.	1.3	16
392	Spring Based Connection of External Wires to a Thin Film Temperature Sensor Integrated Inside a Solid Oxide Fuel Cell. Scientific Reports, 2019, 9, 2161.	1.6	13
393	Scaling Behaviour, Optical and Photoluminescence Properties of La2Hf2O Films with Annealing Treatments. IOP Conference Series: Materials Science and Engineering, 2019, 647, 012008.	0.3	0
394	Synthesis and Characterization of Gadolinium doped Cerium (Ce0,9Gd0,1O1,95) by using Various Carbonates as a Precipitant. IOP Conference Series: Materials Science and Engineering, 2019, 622, 012011.	0.3	1
395	Design and Simulation of SOFC and Steam Turbine based Integrated Power Plant at Ashuganj Power Station Company Limited. , 2019, , .		Ο
396	Mechanical properties of plasma sprayed boron nitride nanoplatelet reinforced gadolinium-doped ceria (GDC) coating for intermediate temperature solid electrolyte. IOP Conference Series: Materials Science and Engineering, 2019, 631, 022020.	0.3	1
397	YSZ nanoparticles and thin films prepared in a single crystallization step at low temperature. Materials Research Express, 2019, 6, 126412.	0.8	1
398	Anisotropic mechanical behavior of gadolinia-doped ceria solid electrolytes under electromechanical coupling field using atomistic simulations. Ceramics International, 2019, 45, 23355-23363.	2.3	6
399	Effective oxygen reduction on A-site substituted LaCuO _{3â~δ} : toward air electrodes for SOFCs based on perovskite-type copper oxides. Journal of Materials Chemistry A, 2019, 7, 27403-27416.	5.2	9
400	An effective partial charge model for bulk and surface properties of cubic ZrO ₂ , Y ₂ O ₃ and yttrium-stabilised zirconia. Physical Chemistry Chemical Physics, 2019, 21, 25635-25648.	1.3	11
401	Improved mesostructured oxygen electrodes for highly performing solid oxide cells for co-electrolysis of steam and carbon dioxide. Journal of Materials Chemistry A, 2019, 7, 27458-27468.	5.2	11
402	Optimising oxygen diffusion in non-cubic, non-dilute perovskite oxides based on BiFeO ₃ . Journal of Materials Chemistry A, 2019, 7, 25274-25278.	5.2	11
403	Cu–Fe–Ni nano alloy particles obtained by exsolution from Cu(Ni)Fe ₂ O ₄ as active anode for SOFCs. Journal of Materials Chemistry A, 2019, 7, 26105-26115.	5.2	17

#	Article	IF	CITATIONS
404	A general orientation distribution function for clay-rich media. Nature Communications, 2019, 10, 5456.	5.8	16
405	Surface Roughening of Electrolyte Membrane for Pt- and Ru-Sputtered Passive Direct Methanol Fuel Cells. Materials, 2019, 12, 3969.	1.3	6
406	Quantitative analysis of gadolinium doped cerium oxide thin films <i>via</i> online-LASIL-ICP-OES. Journal of Analytical Atomic Spectrometry, 2019, 34, 2333-2339.	1.6	7
407	Versatile Application of Redox Processes for REBaCoMnO _{5+Î′} (RE: La, Pr, Nd, Sm, Gd, and Y) Oxides. Journal of Physical Chemistry C, 2019, 123, 48-61.	1.5	10
408	Interactions, joining and microstructure of Sn-Ti/ZrO2 system. Journal of the European Ceramic Society, 2019, 39, 1525-1531.	2.8	29
409	Long-term conductivity stability of acceptor-doped Na0.54Bi0.46TiO3â^î´. Solid State Ionics, 2019, 330, 40-46.	1.3	5
410	Effect of TiC particles size on the oxidation resistance of TiC/hastelloy composites applied for intermediate temperature solid oxide fuel cell interconnects. Journal of Alloys and Compounds, 2019, 778, 811-817.	2.8	9
411	A Reversible Protonic Ceramic Cell with Symmetrically Designed Pr2NiO4+δ-Based Electrodes: Fabrication and Electrochemical Features. Materials, 2019, 12, 118.	1.3	35
412	Improvement of output performance of solid oxide fuel cell by optimizing the active anode functional layer. Electrochimica Acta, 2019, 298, 112-120.	2.6	51
413	Review: Enhancement of composite anode materials for low-temperature solid oxide fuels. International Journal of Hydrogen Energy, 2019, 44, 30692-30704.	3.8	31
414	Low-Cost Getters for Gaseous Chromium Removal in High-Temperature Electrochemical Systems. Jom, 2019, 71, 124-130.	0.9	1
415	Solid Oxide Fuel Cells fuelled with biogas: Potential and constraints. Renewable Energy, 2019, 134, 194-214.	4.3	140
416	Progress in Solid Oxide Fuel Cell (SOFC) Research. Jom, 2019, 71, 88-89.	0.9	14
417	Efficient and robust ceramic interconnects based on a mixed-cation perovskite for solid oxide fuel cells. Ceramics International, 2019, 45, 4902-4908.	2.3	5
418	Compact solid oxide fuel cells and catalytic reformers based on microtubular membranes. Catalysis Today, 2019, 329, 167-170.	2.2	5
419	A Novel Thermomechanical Processing Route to Fabricate ODS Ferritic Stainless Steel Interconnects and Their Oxidation Behavior. Oxidation of Metals, 2019, 91, 609-624.	1.0	1
420	Oxygen ion conducting pyrochlore oxides prepared by an ultrasound-assisted wet chemistry route: Ca-doped Gd2Ti2O7 nanocrystals. International Journal of Hydrogen Energy, 2019, 44, 12515-12524.	3.8	17
421	A Review on Fuel Cell-Based Locomotive Powering Options for Sustainable Transportation. Arabian Journal for Science and Engineering, 2019, 44, 677-693.	1.7	31

ARTICLE IF CITATIONS # Iron/zinc doped 8†mol% yttria stabilized zirconia electrolytes for the green fuel cell technology: A comparative study of thermal analysis, crystalline structure, microstructure, mechanical and 422 2.0 15 electrochemical properties. Materials Chemistry and Physics, 2019, 222, 309-320. Solid Oxide Fuel Cell Materials and Interfaces., 2019, , 1-31. Ionic conductivity of Ln4Zr3O12 solid electrolytes synthesized by mechanochemistry. International 424 3.8 3 Journal of Hydrogen Energy, 2019, 44, 12500-12507. Electrophoretic deposition studies of Ba(Zrâ€Ceâ€Y)O₃ ceramic coating. International Journal 425 of Applied Ceramic Technology, 2019, 16, 1022-1031. Hydrogen and Fuel Cells., 2019, , 587-653. 426 0 Alumina–silica glass–ceramic sealants for tubular solid oxide fuel cells. Journal of Materials Science, 2019, 54, 4532-4545. 1.7 A robust glass-ceramic sealing material for solid oxide fuel cells: Effect of Ba3Nb10O28 phase. Journal 428 2.8 3 of the European Ceramic Society, 2019, 39, 1540-1545. In situ high-temperature X-Ray diffraction of hollow fiber membranes under operating conditions. 429 2.8 Journal of the European Ceramic Society, 2019, 39, 1717-1720. Co-sputtered nanocomposite nickel cermet anode for high-performance low-temperature solid oxide 430 4.0 17 fuel cells. Journal of Power Sources, 2019, 412, 160-169. Nano strain induced double columnar oxide as highly active oxygen-dissociation electrode for Ni-Fe 8.2 metal supported solid oxide fuel cells. Nano Energy, 2019, 56, 382-390. On the technical challenges affecting the performance of direct internal reforming biogas solid 432 121 8.2 oxide fuel cells. Renewable and Sustainable Energy Reviews, 2019, 101, 361-375. Effect of isovalent substitution of La3+ in Ca-doped LaNbO4 on the thermal and electrical properties. 2.3 Ceramics International, 2019, 45, 209-215. Mixed Ionic-Electronic Conducting Perovskites as Nanostructured Ferroelastics., 2019,, 515-555. 434 4 A LaNi0.9Co0.1O3 coated Ce0.8Sm0.2O1.9 composite anode for solid oxide fuel cells fed with methanol. 2.2 14 Catalysis Today, 2019, 327, 220-225. 436 Nano-Porous Materials for Use in Solar Cells and Fuel Cells., 2020, 549-560. 1 Ceria-Co-Cu-based SOFC anode for direct utilisation of methane or ethanol as fuels. International Journal of Hydrogen Energy, 2020, 45, 5297-5308. LaFe0.6Co0.4O3 promoted LSCM/YSZ anode for direct utilization of methanol in solid oxide fuel cells. 438 1.2 7 lonics, 2020, 26, 1011-1018. Evaluation of BaZr0.8X0.2 (X= Y, Gd, Sm) proton conducting electrolytes sintered at low temperature 439 for IT-SOFC synthesized byAcost effective combustion method. Journal of Alloys and Compounds, 2020, 2.8 815, 152389

#	Article	IF	CITATIONS
440	Low oxygen partial pressure increases grain boundary ion conductivity in Gd-doped ceria thin films. JPhys Energy, 2020, 2, 014002.	2.3	7
441	Ca and Pr substitution promoted the cell performance in LnSr3Fe3O10-δ cathode for solid oxide fuel cells. Ceramics International, 2020, 46, 3082-3090.	2.3	6
442	Progress in the use of electrospun nanofiber electrodes for solid oxide fuel cells: a review. Reviews in Chemical Engineering, 2020, 36, 879-931.	2.3	11
443	Voltage control of solid oxide fuel cell power plant based on intelligent proportional integral-adaptive sliding mode control with anti-windup compensator. Transactions of the Institute of Measurement and Control, 2020, 42, 116-130.	1.1	20
444	Effect of water vapor generation on cell polarization in active area of anode-supported solid oxide fuel cells. Heat and Mass Transfer, 2020, 56, 617-625.	1.2	2
445	Effect of Aâ€site ion nonstoichiometry on the chemical stability and electric conductivity of strontium and magnesiumâ€doped lanthanum gallate. Journal of the American Ceramic Society, 2020, 103, 790-799.	1.9	4
446	Engineering solid oxide fuel cell materials. , 2020, , 131-160.		2
447	Structural and proton conductivity study of BaZr1-xRExO3-Î′(RE = Dy, Sm) ceramics for intermediate temperature solid oxide fuel cell electrolyte. Journal of Solid State Electrochemistry, 2020, 24, 1463-1473.	1.2	6
448	Design and operation of solid oxide fuel cell systems: challenges and future research directions. , 2020, , 445-463.		0
449	Review of perovskite-structure related cathode materials for solid oxide fuel cells. Ceramics International, 2020, 46, 5521-5535.	2.3	141
450	Thermophysical properties of urania-zirconia (U,Zr)O2 mixed oxides by molecular dynamics. Journal of Nuclear Materials, 2020, 528, 151876.	1.3	3
451	Breath Acetone Sensors as Non-Invasive Health Monitoring Systems: A Review. IEEE Sensors Journal, 2020, 20, 5-31.	2.4	65
452	A review on fuel cell types and the application of nanofluid in their cooling. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1633-1654.	2.0	47
453	Effect of Sm co-doping on structural, mechanical and electrical properties of Gd doped ceria solid electrolytes for intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 29690-29704.	3.8	17
454	A review on recent status and challenges of yttria stabilized zirconia modification to lowering the temperature of solid oxide fuel cells operation. International Journal of Energy Research, 2020, 44, 631-650.	2.2	84
455	Global sensitivity analysis of solid oxide fuel cells with Bayesian sparse polynomial chaos expansions. Applied Energy, 2020, 260, 114318.	5.1	15
456	Structural and electrochemical characterization of low-cost LixCu1-xCoy Fe1-yO3-δ cathode material for intermediate temperature solid oxide fuel cell. Ceramics International, 2020, 46, 10348-10355.	2.3	9
457	Pd-doped perovskite-based SOFC anodes for biogas. Journal of Solid State Electrochemistry, 2020, 24, 93-100.	1.2	11

#	Article	IF	CITATIONS
458	Low-temperature electrical and magnetic properties of La0.6Sr0.4Co0.2Fe0.8O3-δ nanofibers prepared by electrospinning. Ceramics International, 2020, 46, 9389-9395.	2.3	8
459	Construction of Heterointerfaces with Enhanced Oxygen Reduction Kinetics for Intermediate-Temperature Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2020, 3, 447-455.	2.5	22
460	Encapsulating metal organic framework into hollow mesoporous carbon sphere as efficient oxygen bifunctional electrocatalyst. National Science Review, 2020, 7, 609-619.	4.6	95
461	Comparison of solid oxide fuel cell (SOFC) electrolyte materials for operation at 500â€ ⁻ °C. Solid State Ionics, 2020, 344, 115138.	1.3	85
462	A review of solid oxide fuel cell component fabrication methods toward lowering temperature. International Journal of Energy Research, 2020, 44, 594-611.	2.2	100
463	Grain size dependent electrical conductivity, chemical surface exchange and bulk diffusion coefficient of La0.5Sr0.5Al0.2Fe0.8O3-Ĩ. Journal of Alloys and Compounds, 2020, 818, 152831.	2.8	7
464	A cost-effective and chemically stable electrode binder for alkaline-acid direct ethylene glycol fuel cells. Applied Energy, 2020, 258, 114060.	5.1	45
465	High ionic conductivity in CeO2 SOFC solid electrolytes; effect of Dy doping on their electrical properties. International Journal of Hydrogen Energy, 2020, 45, 14062-14070.	3.8	34
466	Catalytic study of efficient nanocomposites {Ni _{0.5} Zn _{0.5â^'x} Cex -oxides electrodes} for natural gas-fed fuel cells. Materials Research Express, 2020, 7, 015508.	0.8	2
467	Improved crack resistance and thermal conductivity of cubic zirconia containing graphene nanoplatelets. Journal of the European Ceramic Society, 2020, 40, 1557-1565.	2.8	18
468	Performance analysis of Na-β″-Al2O3/YSZ solid electrolytes produced by conventional sintering and by vapor conversion of α-Al2O3/YSZ. Solid State Ionics, 2020, 345, 115169.	1.3	8
469	Solid oxide fuel and electrolysis cells. , 2020, , 387-547.		7
470	An inverse-problem approach: Estimating multi-physiochemical properties of porous electrodes of single cell of a hydrogen-fueled solid oxide fuel cell by applying the pattern-search optimization to a pseudo-2D numerical model. Journal of Power Sources, 2020, 448, 227437.	4.0	1
471	Cobaltâ€free perovskite SrTa _{0.1} Mo _{0.1} Fe _{0.8} O _{3―<i>δ</i>} as cathode for intermediateâ€ŧemperature solid oxide fuel cells. International Journal of Energy Research, 2020, 44, 925-933.	2.2	20
472	Machine Learning Coupled Multiâ€Scale Modeling for Redox Flow Batteries. Advanced Theory and Simulations, 2020, 3, 1900167.	1.3	21
473	Comparison of in-situ Raman studies of SOFC with thick single-crystal and thin-film magnetron sputtered membranes. Solid State Ionics, 2020, 344, 115091.	1.3	4
474	Direct-methane solid oxide fuel cells with an in situ formed Ni–Fe alloy composite catalyst layer over Ni–YSZ anodes. Renewable Energy, 2020, 150, 334-341.	4.3	30
475	Co-electrolysis of steam and carbon dioxide in large area solid oxide cells based on infiltrated mesoporous oxygen electrodes. Journal of Power Sources, 2020, 478, 228774.	4.0	15

#	Article	IF	CITATIONS
476	High-performance composite cathode for electrolysis of CO2 in tubular solid oxide electrolysis cells: A pathway for efficient CO2 utilization. Journal of CO2 Utilization, 2020, 41, 101271.	3.3	6
477	Manufacture, structure and electrophysical properties of YSZ/SrTixZr1-xO3 solid solution. Ceramics International, 2020, 46, 28120-28124.	2.3	0
478	Mitigation of Chromium Poisoning of Ferritic Interconnect from Annealed Spinel of CuFe2O4. Processes, 2020, 8, 1113.	1.3	6
479	Long-Term Conductivity Stability of Metastable Tetragonal Phases in 1Yb2O3–xSc2O3–(99 – x)ZrO2 (x =)	Tj ETQq1	1
480	3D-printing for electrolytic processes and electrochemical flow systems. Journal of Materials Chemistry A, 2020, 8, 21902-21929.	5.2	37
481	Thermal stress analysis at the interface of cathode and electrolyte in solid oxide fuel cells. International Communications in Heat and Mass Transfer, 2020, 118, 104831.	2.9	11
482	Novel Sample-Stage for Combined Near Ambient Pressure X-ray Photoelectron Spectroscopy, Catalytic Characterization and Electrochemical Impedance Spectroscopy. Crystals, 2020, 10, 947.	1.0	20
483	Electrolyte materials for intermediate-temperature solid oxide fuel cells. Progress in Natural Science: Materials International, 2020, 30, 764-774.	1.8	129
484	Effect of Oxygen Diffusion Constraints on the Performance of Planar Solid Oxide Fuel Cells for Variable Oxygen Concentration. Industrial & Engineering Chemistry Research, 2020, 59, 18844-18856.	1.8	3
485	The Ba ₃ Mo _{1â^'x} W _x NbO _{8.5} ion conductors: insights into local coordination from X-ray and neutron total scattering. Journal of Materials Chemistry A, 2020, 8, 21227-21240.	5.2	8
486	Enhanced liquid metal wetting on oxide surfaces via patterned particles. Acta Materialia, 2020, 199, 551-560.	3.8	11
487	Recent progress of tubular solid oxide fuel cell: From materials to applications. Journal of Power Sources, 2020, 477, 228693.	4.0	53
488	Comprehensive review of chromium deposition and poisoning of solid oxide fuel cells (SOFCs) cathode materials. Renewable and Sustainable Energy Reviews, 2020, 134, 110320.	8.2	69
489	Suitability of strontium and cobalt-free perovskite cathodes with La9.67Si5AlO26 apatite electrolyte for intermediate temperature solid oxide fuel cells. Dalton Transactions, 2020, 49, 14280-14289.	1.6	2
490	Defects in complex oxide thin films for electronics and energy applications: challenges and opportunities. Materials Horizons, 2020, 7, 2832-2859.	6.4	83
491	Application of a Triple-Conducting Heterostructure Electrolyte of Ba _{0.5} Sr _{0.5} Co _{0.1} Fe _{0.7} Zr _{0.1} Y _{0.1} Ca and Ca _{0.04} Ce _{0.80} Sm _{0.16} O _{2â^î^} in a High-Performance Low-Temperature Solid Oxide Fuel Cell. ACS Applied Materials & amp: Interfaces. 2020. 12. 35071-35080.) _{3â^ 4.0}	î´{∕şub>
492	High-performance SrFe0.1Mo0.9O3based composites for the anode application in solid oxide fuel cells. Electrochimica Acta, 2020, 354, 136759.	2.6	8
493	Enhancement of electrical properties Ce0.8Sm0.2â `xO2â `î by Sr2+ doping. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	5

#	Article	IF	CITATIONS
494	A review of heat transfer and thermal management methods for temperature gradient reduction in solid oxide fuel cell (SOFC) stacks. Applied Energy, 2020, 280, 115899.	5.1	103
495	Mica (KMg3AlSi3O10F2) based glass-ceramic composite sealant with thermal stability for SOFC application. International Journal of Hydrogen Energy, 2021, 46, 23480-23488.	3.8	14
496	High Cu content LaNi1-xCuxO3-δ perovskites as candidate air electrode materials for Reversible Solid Oxide Cells. International Journal of Hydrogen Energy, 2020, 45, 29449-29464.	3.8	7
497	Degradation of cobalt-free Ba0.95La0.05FeO3-l̂´ cathode against CO2–H2O and Ce0.9Gd0.1O2â~l̂´ modification. International Journal of Hydrogen Energy, 2020, 45, 34080-34088.	3.8	14
498	Current State and Future Prospects for Electrochemical Energy Storage and Conversion Systems. Energies, 2020, 13, 5847.	1.6	58
499	Ba(Ce,Zr)O ₃ -based electrodes for protonic ceramic electrochemical cells: towards highly compatible functionality and triple-conducting behaviour. Russian Chemical Reviews, 2020, 89, 667-692.	2.5	76
500	Stabilizing fluorite structure in ceria-based high-entropy oxides: Influence of Mo addition on crystal structure and transport properties. Journal of the European Ceramic Society, 2020, 40, 5870-5881.	2.8	36
501	Review: Influence of alloy addition and spinel coatings on Cr-based metallic interconnects of solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 25191-25209.	3.8	62
502	Role of phosphate source in improving the proton conductivity of tin pyrophosphate and its composite electrolytes. Journal of Materials Chemistry A, 2020, 8, 16345-16354.	5.2	15
503	Model identification and strategy application for Solid Oxide Fuel Cell using Rotor Hopfield Neural Network based on a novel optimization method. International Journal of Hydrogen Energy, 2020, 45, 27694-27704.	3.8	24
504	Validation of defect association energy on modulating oxygen ionic conductivity in low temperature solid oxide fuel cell. Journal of Power Sources, 2020, 480, 229106.	4.0	10
505	Review of solid oxide fuel cell materials: cathode, anode, and electrolyte. Energy Transitions, 2020, 4, 113-126.	3.6	137
506	Carbon dioxide and water incorporation mechanisms in SrFeO _{3â^î^} phases: a computational study. Physical Chemistry Chemical Physics, 2020, 22, 25146-25155.	1.3	4
507	A Review on Synthesis of Methane as a Pathway for Renewable Energy Storage With a Focus on Solid Oxide Electrolytic Cell-Based Processes. Frontiers in Energy Research, 2020, 8, .	1.2	42
508	The Electronic Properties of Extended Defects in SrTiO3—A Case Study of a Real Bicrystal Boundary. Crystals, 2020, 10, 665.	1.0	8
509	An innovative approach to design SOFC air electrode materials: high entropy La _{1â^'x} Sr _x (Co,Cr,Fe,Mn,Ni)O _{3â~Î^} (<i>x</i> = 0, 0.1, 0.2, 0.3) perovskites synthesized by the sol–gel method. Journal of Materials Chemistry A, 2020, 8, 24455-24468.	5.2	80
510	Structural, thermal and electrical study of copper-doped strontium zirconate. Ionics, 2020, 26, 6233-6244.	1.2	13
511	Impedance Spectroscopic Studies of B2O3-Substituted CeO2-Gd2O3 Systems. Journal of Electronic Materials, 2020, 49, 6706-6714.	1.0	1

#	Article	IF	CITATIONS
512	Review of Fuel Cell Technologies and Applications for Sustainable Microgrid Systems. Inventions, 2020, 5, 42.	1.3	89
513	Synthesis and characterization of gadolinium-doped ceria and barium cerate-based composite electrolyte material for IT-SOFC. Bulletin of Materials Science, 2020, 43, 1.	0.8	5
514	Bond dissociation energies of transition metal oxides: CrO, MoO, RuO, and RhO. Journal of Chemical Physics, 2020, 153, 074303.	1.2	23
515	In-situ temperature monitoring directly from cathode surface of an operating solid oxide fuel cell. Applied Energy, 2020, 280, 116013.	5.1	10
516	Characterization of Metallic Interconnects Extracted from Solid Oxide Fuel Cell Stacks Operated up to 20,000 h in Real Life Conditions: The Air Side. Energies, 2020, 13, 6487.	1.6	12
517	Influence of alkaline-earth metal substitution on structure, electrical conductivity and oxygen transport properties of perovskite-type oxides La _{0.6} A _{0.4} FeO _{3â^î^} (A =) Tj l	ETiQaj 1 (0.7 8 4314 rg
518	A CO ₂ -tolerant SrCo _{0.8} Fe _{0.15} Zr _{0.05} O _{3â~´î´} cathode for proton-conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 11292-11301.	5.2	47
519	Bismuth doped La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O _{3â^Î} perovskite as a novel redox-stable efficient anode for solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8. 11553-11563.	5.2	32
520	A novel cobalt–free La0.5Ba0.5Fe0.95Mo0.05O3– electrode for symmetric solid oxide fuel cell. Journal of the European Ceramic Society, 2020, 40, 4361-4365.	2.8	22
521	Comparative neutron and X-ray diffraction analysis of anionic and cationic ordering in rare-earth zirconates (LnÂ= La, Nd, Tb, Yb, Y). Journal of Alloys and Compounds, 2020, 832, 154863.	2.8	15
523	Durability of direct-internally reformed simulated coke oven gas in an anode-supported planar solid oxide fuel cell based on double-sided cathodes. Journal of Power Sources, 2020, 465, 228284.	4.0	7
524	Thermal cycling stability of novel hexagonal boron nitride (h-BN)/glass compressive seals for planar intermediate temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2020, 843, 155620.	2.8	10
525	Electrochemical Properties of a Co-Doped SrSnO _{3â^îî} -Based Semiconductor as an Electrolyte for Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2020, 3, 6323-6333.	2.5	38
526	Study of (La,Sr)(Ti,Ni)O3-δ materials for symmetrical Solid Oxide Cell electrode - Part C: Electrical and electrochemical behavior. Ceramics International, 2020, 46, 23442-23456.	2.3	7
527	Formulation of spinel based inkjet inks for protective layer coatings in SOFC interconnects. Journal of Colloid and Interface Science, 2020, 579, 82-95.	5.0	17
528	Oxygen Ion Migration and Conductivity in LaSrGa ₃ O ₇ Melilites from First Principles. Chemistry of Materials, 2020, 32, 4442-4450.	3.2	18
529	The electrical conductivity of Dy3+/Sc3+ co-doped CeO2 solid electrolytes. Journal of Solid State Electrochemistry, 2020, 24, 1639-1646.	1.2	12
530	Review of composite cathodes for intermediate-temperature solid oxide fuel cell applications. Ceramics International, 2020, 46, 23314-23325.	2.3	95

#	Article	IF	CITATIONS
531	Defects evolution of Ca doped La2NiO4+δ and its impact on cathode performance in proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 17736-17744.	3.8	22
532	Fabrication of electrolyte-supported solid oxide fuel cells using a tape casting process. Journal of the Ceramic Society of Japan, 2020, 128, 310-316.	0.5	4
533	CO production from CO2 and H2 via the rWGS reaction by thermochemical redox cycling in interconnected fluidized beds. Journal of CO2 Utilization, 2020, 40, 101191.	3.3	18
534	A discrete element model simulation of structure and bonding at interfaces between cathode and cathode contact paste in solid oxide fuel cells. Renewable Energy, 2020, 157, 998-1007.	4.3	6
535	Suppressing the Side Reaction by a Selective Blocking Layer to Enhance the Performance of Si-Based Anodes. Nano Letters, 2020, 20, 5176-5184.	4.5	39
536	CuFeAl Nanocomposite Catalysts for Coal Combustion in Fluidized Bed. Nanomaterials, 2020, 10, 1002.	1.9	11
537	CHAPTER 6 Development of SOFC Interconnect Stainless Steels. Solid State Phenomena, 0, 300, 135-156.	0.3	21
540	Electrical conductivities and microstructures of LSM, LSM-YSZ and LSM-YSZ/LSM cathodes fabricated on YSZ electrolyte hollow fibres by dip-coating. Materials Today Chemistry, 2020, 16, 100252.	1.7	11
541	Stability and anion diffusion kinetics of Yttria-stabilized zirconia resolved from machine learning global potential energy surface exploration. Journal of Chemical Physics, 2020, 152, 094703.	1.2	15
542	Development by Mechanochemistry of La0.8Sr0.2Ga0.8Mg0.2O2.8 Electrolyte for SOFCs. Materials, 2020, 13, 1366.	1.3	11
543	A highly active Ni/Ce _{0.8} Sm _{0.2} O _{1.9} anode catalyst with a three-dimensionally ordered macroporous structure for solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 7792-7800.	5.2	13
544	Electrochemical performance and anode reaction process for Ca doped Sr2Fe1·5Mo0·5O6-δas electrodes for symmetrical solid oxide fuel cells. Electrochimica Acta, 2020, 341, 136067.	2.6	44
545	Mathematical Multi-physics Modeling and Simulation of a Solid Oxide Fuel Cell Unit for Thermo-Mechanical Stress Analyses. Journal of the Electrochemical Society, 2020, 167, 044514.	1.3	3
546	Direct AC/DC Heating of Oxygen Transport Membranes. Energies, 2020, 13, 30.	1.6	2
547	Key Parameters of Proton onducting Solid Oxide Fuel Cells from the Perspective of Coherence with Models. Fuel Cells, 2020, 20, 323-331.	1.5	2
548	Comparison of (Pr, Ba, Sr)FeO3-δ-SDC composite cathodes in proton-conducting solid oxide fuel cells. Solid State Ionics, 2020, 353, 115379.	1.3	13
549	Integrated application of semantic segmentation-assisted deep learning to quantitative multi-phased microstructural analysis in composite materials: Case study of cathode composite materials of solid oxide fuel cells. Journal of Power Sources, 2020, 471, 228458.	4.0	19
550	Crystal structural, thermal, and mechanical properties of Yb2+Ti2â^'O7â^'/2 solid solutions. Journal of Solid State Chemistry, 2020, 287, 121328.	1.4	4

#	Article	IF	CITATIONS
551	Performance evaluation of highly active and novel La0.7Sr0.3Ti0.1Fe0.6Ni0.3O3-δ material both as cathode and anode for intermediate-temperature symmetrical solid oxide fuel cell. Journal of Power Sources, 2020, 472, 228498.	4.0	54
552	Transient system-level performance and thermo-mechanical stress analysis of a solid oxide fuel cell-based power generation plant with a multi-physics approach. Computers and Chemical Engineering, 2020, 140, 106972.	2.0	6
553	Fabrication of Solid Oxide Electrolysis Single Cell Using NiO-YSZ/YSZ/LSM-YSZ via Drop-Coating Method. Key Engineering Materials, 2020, 847, 129-134.	0.4	2
554	In situ investigation of atmospheric plasma-sprayed Mn–Co–Fe–O by synchrotron X-ray nano-tomography. Journal of Materials Science, 2020, 55, 12725-12736.	1.7	7
555	Materials design of ionic conductors for solid state batteries. Progress in Energy, 2020, 2, 022001.	4.6	146
556	Obtaining Mn-Co Alloys in AISI 430 Steel from Lithium-Ion Battery Recycling: Application in SOFC Interconnectors. ChemEngineering, 2020, 4, 10.	1.0	3
557	Epitaxial Growth and Structural Characterization of Ceria Deposited by Atomic Layer Deposition on High-Surface Porous Yttria-Stabilized Zirconia Thin Films. Crystal Growth and Design, 2020, 20, 2194-2201.	1.4	11
558	Solidâ€state sintering of coreâ€shell ceramic powders fabricated by particle atomic layer deposition. Journal of the American Ceramic Society, 2020, 103, 4101-4109.	1.9	1
559	The Relation of Microstructure, Materials Properties and Impedance of SOFC Electrodes: A Case Study of Ni/GDC Anodes. Energies, 2020, 13, 987.	1.6	30
560	1D thermodynamic modeling for a solid oxide fuel cell stack and parametric study for its optimal operating conditions. Energy Conversion and Management, 2020, 209, 112614.	4.4	27
561	Effect of the Calcination Temperature on the Properties of Sm-Doped CeO2. Emerging Materials Research, 2020, 9, 1-5.	0.4	6
562	Iron doped manganese cobaltite spinel coatings produced by electrophoretic co-deposition on interconnects for solid oxide cells: Microstructural and electrical characterization. Journal of Power Sources, 2020, 455, 227910.	4.0	21
563	Significant ion conduction in Cu acceptor-substituted bismuth titanate polycrystalline ceramics. Journal of Materials Science, 2020, 55, 5715-5729.	1.7	7
564	Residual stress distribution in solid oxide fuel cells: anode-electrolyte and anode-electrolyte-cathode systems. SN Applied Sciences, 2020, 2, 1.	1.5	2
565	Characterization of oxygen transport phenomena on BSCF membranes assisted by fluid dynamic simulations including surface exchange. Chemical Engineering Journal, 2020, 387, 124069.	6.6	15
566	Highly conducting Sc and Y co-doped ZrO2 thin film solid electrolyte on a porous Ni/YSZ electrode prepared via simple drop-coating method. Ceramics International, 2020, 46, 10561-10567.	2.3	7
567	Novel structured anode-supported solid oxide fuel cells with porous GDC interlayers. Ceramics International, 2020, 46, 11066-11074.	2.3	8
568	From theory to experiment: BaFe _{0.125} Co _{0.125} Zr _{0.75} O _{3â^îr} , a highly promising cathode for intermediate temperature SOFCs. Journal of Materials Chemistry A, 2020, 8, 3413-3420.	5.2	17

#	Article	IF	CITATIONS
569	Protonic transport in the new phases BaLaIn0.9M0.1O4.05 (M=Ti, Zr) with Ruddlesden-Popper structure. Solid State Sciences, 2020, 101, 106121.	1.5	27
570	Solid oxide fuel cell: Materials for anode, cathode and electrolyte. International Journal of Hydrogen Energy, 2020, 45, 23988-24013.	3.8	123
571	Facile surface modification of LSCF/GDC cathodes by epitaxial deposition of Sm _{0.5} Sr _{0.5} CoO ₃ <i>via</i> ultrasonic spray infiltration. Journal of Materials Chemistry A, 2020, 8, 3967-3977.	5.2	41
572	Exsolution of Cu nanoparticles in (LaSr)0.9Fe0.9Cu0.1O4 Ruddlesden-Popper oxide as symmetrical electrode for solid oxide cells. Applied Surface Science, 2020, 511, 145525.	3.1	40
573	Materials and nano-structural processes for use in solid oxide fuel cells: a review. Journal of the Korean Ceramic Society, 2020, 57, 135-151.	1.1	29
574	Associating and Tuning Sodium and Oxygen Mixedâ€lon Conduction in Niobiumâ€Based Perovskites. Advanced Functional Materials, 2020, 30, 1909254.	7.8	15
575	Solid oxide fuel cell technology paths: National innovation system contributions from Japan and the United States. Renewable and Sustainable Energy Reviews, 2020, 127, 109879.	8.2	15
576	Boosting the Electrochemical Performance of Fe-Based Layered Double Perovskite Cathodes by Zn ²⁺ Doping for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 23959-23967.	4.0	87
577	Bio-inspired proton conducting phytagel derived zwitterionic complex membranes for fuel cells. International Journal of Energy Research, 2020, 45, 17120.	2.2	1
578	How to Transform Sustainable Energy Technology into a Unicorn Start-Up: Technology Review and Case Study. Sustainability, 2020, 12, 3018.	1.6	8
579	Modeling investigation of Sm0.5Sr0.5CoO3â^ĺâ€"Ce0.8Sm0.2O2â^ĺ cathode for proton-conducting ceramic fuel cell. Journal of Solid State Electrochemistry, 2020, 24, 1487-1495.	1.2	2
580	Heterovalent ions incorporated pyrochlore Sm2Zr2O7 ceramic for enhanced NO2 sensing. Journal of the European Ceramic Society, 2020, 40, 3453-3461.	2.8	6
581	Towards online optimisation of solid oxide fuel cell performance: Combining deep learning with multi-physics simulation. Energy and AI, 2020, 1, 100003.	5.8	61
582	Catalytic membrane with high ion–electron conduction made of strongly correlated perovskite LaNiO3 and Ce0.8Sm0.2O2-l´ for fuel cells. Journal of Catalysis, 2020, 386, 117-125.	3.1	22
583	Physical properties of (SrBa)1-xPrx(CuTi)0.2Fe0.8O3-l̂´ (xÂ=Â0–1.0) and its application in H-SOFCs. Solid State Ionics, 2020, 348, 115279.	1.3	11
584	Cermets as anode materials. , 2020, , 165-194.		0
585	Enhancing the ionic conductivity in the ceria-based electrolytes for intermediate temperature solid oxide fuel cells. , 2020, , 113-163.		2
586	Stacking designs and sealing principles for IT-solid oxide fuel cell. , 2020, , 379-410.		1

ARTICLE IF CITATIONS Solid oxide fuel cell's interconnectors. , 2020, , 27-54. 1 587 Sensors based on solid oxide electrolytes., 2020, , 167-215. 588 Current status, research trends, and challenges in water electrolysis science and technology. 589 3.8 390 International Journal of Hydrogen Energy, 2020, 45, 26036-26058. Semiconductor Fe-doped SrTiO3-δ perovskite electrolyte for low-temperature solid oxide fuel cell (LT-SOFC) operating below 520°C. International Journal of Hydrogen Energy, 2020, 45, 14470-14479. 3.8 Reaction tuned formation of hierarchical BaCo0.4Fe0.4Zr0.1Y0.1O3-Î' cathode. Journal of Power 591 4.0 15 Sources, 2020, 455, 227971. The roles of oxygen vacancies in electrocatalytic oxygen evolution reaction. Nano Energy, 2020, 73, 8.2 104761. Effect of Current Density on Deposition of Ni-Mn₃O₄ Composite Coating and 593 1.3 6 its High Temperature Behavior. Journal of the Electrochemical Society, 2020, 167, 041506. Controlling cation migration and inter-diffusion across cathode/interlayer/electrolyte interfaces of 2.3 solid oxide fuel cells: A review. Ceramics International, 2021, 47, 5839-5869. La4Ni3O10±Î´â€" BaCe0.9Y0.1O3-δ cathodes for proton ceramic fuel cells; short-circuiting analysis using 595 3.8 13 BaCe0.9Y0.1O3-Î' symmetric cells. International Journal of Hydrogen Energy, 2021, 46, 13594-13605. Effects of P-N and N-N heterostructures and band alignment on the performance of low-temperature 3.8 solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 9790-9798. A triple (eâ^'/O2â^'/H+) conducting perovskite BaCo0.4Fe0.4Zr0.1Y0.1O3-Î' for low temperature solid oxide 597 3.8 16 fuel cell. International Journal of Hydrogen Energy, 2021, 46, 9767-9774. Structural and ionic conductivity of Cu-doped titania (Τi0.95Cu0.05O2â~Î) for high temperature energy 2.3 devices. Ceramics International, 2021, 47, 10284-10290. Effect of nonequivalent substitution of Pr3+/4+ with Ca2+ in PrBaCoFeO5+ \hat{I} as cathodes for IT-SOFC. 599 1.7 27 Journal of Materials Science, 2021, 56, 1147-1161. Recent advances and perspectives of fluorite and perovskite-based dual-ion conducting solid oxide 7.1 56 fuel cells. Journal of Energy Chemistry, 2021, 57, 406-427. Microwave irradiation synthesis to obtain La0.7-xPrxCa0.3MnO3 perovskites: Electrical and 601 2.8 7 electrochemical performance. Journal of Alloys and Compounds, 2021, 851, 156882. Lignocellulosic biomass as sustainable feedstock and materials for power generation and energy storage. Journal of Energy Chemistry, 2021, 57, 247-280. Advanced modification of scandiaâ€stabilized zirconia electrolytes for solid oxide fuel cells 603 2.234 applicationâ€"A review. International Journal of Energy Research, 2021, 45, 4871-4887. YSZ-rGO composite ceramics by spark plasma sintering: The relation between thermal evolution of 604 conductivity, microstructure and phase stability. Electrochimica Acta, 2021, 367, 137533.

#	Article	IF	CITATIONS
605	Fuel cells as an advanced alternative energy source for the residential sector applications in Malaysia. International Journal of Energy Research, 2021, 45, 5032-5057.	2.2	14
606	Crystal defects and phase transitions of nanocrystalline yttria-stabilised zirconia induced by high-energy ball milling. Ceramics International, 2021, 47, 16432-16440.	2.3	7
607	Effects of humidity on SrTi0.05Co0.95O3-δ cathode properties and durability of solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 5604-5611.	3.8	2
608	Cation-driven electrical conductivity in Ta-doped orthorhombic zirconia ceramics. Ceramics International, 2021, 47, 7248-7252.	2.3	3
609	Ammonia as an effective hydrogen carrier and a clean fuel for solid oxide fuel cells. Energy Conversion and Management, 2021, 228, 113729.	4.4	214
610	Development of nickel based cermet anode materials in solid oxide fuel cells – Now and future. Materials Reports Energy, 2021, 1, 100003.	1.7	34
611	Assessment of cobalt–free ferrite–based perovskite Ln0.5Sr0.5Fe0.9Mo0.1O3–δ (Ln = lanthanide) as cathodes for IT-SOFCs. Journal of the European Ceramic Society, 2021, 41, 2682-2690.	2.8	40
612	Bulk phase charge transfer in focus – And in sequential along with surface steps. Catalysis Today, 2021, 364, 2-6.	2.2	8
613	Entropic stabilization plays a key role in the non-uniform distribution of oxygen ions and vacancy defects in gadolinium-doped ceria. Physical Chemistry Chemical Physics, 2021, 23, 3716-3728.	1.3	4
614	Long-term operation of a solid oxide fuel cell with MoNi–CeO2 as anode directly fed by biogas containing simultaneously sulphur and siloxane. Journal of Power Sources, 2021, 481, 229048.	4.0	21
615	Effect of the synthesis conditions of Ce0.9Gd0.1O1.95 powder on its morphology and characteristics of the oxygen ion-conducting ceramics obtained by spark plasma sintering. Ceramics International, 2021, 47, 2557-2564.	2.3	3
616	Thermodynamic assessment and performance optimization of solid oxide fuel cell-Stirling heat engine–reverse osmosis desalination. International Journal of Low-Carbon Technologies, 2021, 16, 417-428.	1.2	14
617	Microstructure and electrical properties of 3Yâ€TZP/Al ₂ O ₃ composite obtained using the citrate gel method. International Journal of Applied Ceramic Technology, 2021, 18, 749-764.	1.1	3
618	Impact of Mn ⁴⁺ ion substitution on La _{0.4} Sr _{0.6} Fe _{1-x} Mn _x O ₃ perovskite conductivity (x = 0.2, 0.4 and 0.6) as a solid fuel cell cathode. Journal of Physics: Conference Series, 2021, 1751, 012066.	0.3	Ο
619	Gold-based nanoalloys: synthetic methods and catalytic applications. Journal of Materials Chemistry A, 2021, 9, 19025-19053.	5.2	16
620	The Use of Anodic Oxides in Practical and Sustainable Devices for Energy Conversion and Storage. Materials, 2021, 14, 383.	1.3	17
621	Enhanced ORR activity of A-site deficiency engineered BaCoO·4FeO·4ZrO·1YO·1O3-δ cathode in practical YSZ fuel cells. International Journal of Hydrogen Energy, 2021, 46, 5593-5603.	3.8	37
622	Excellent kinetics of single-phase Gd-doped ceria fuel electrodes in solid oxide cells. Materials Advances, 2021, 2, 5422-5431.	2.6	25

#	Article	IF	CITATIONS
623	Infiltration technique to fabricate nanostructured electrodes for high-performance solid oxide fuel cells. , 2021, , 545-559.		0
624	A new strategy for improving the electrochemical performance of perovskite cathodes: pre-calcining the perovskite oxide precursor in a nitrogen atmosphere. Nanoscale Advances, 2021, 3, 5027-5035.	2.2	2
625	The Development of Current Collection in Micro-Tubular Solid Oxide Fuel Cells—A Review. Applied Sciences (Switzerland), 2021, 11, 1077.	1.3	27
626	Reversible fuel electrode supported solid oxide cells fabricated by aqueous multilayered tape casting. JPhys Energy, 2021, 3, 024002.	2.3	8
627	Compatibility assessment of solid ceramic electrolytes and active materials based on thermal dilatation for the development of solid-state batteries. Materials Advances, 2021, 2, 2989-2999.	2.6	12
628	Ion conductive character of low-yttria-content yttria-stabilized zirconia at low temperature. Japanese Journal of Applied Physics, 2021, 60, SBBF03.	0.8	1
629	Structural and Electrochemical Properties of Lanthanum Silicate Apatites La10Si6â^'xâ^'0.2AlxZn0.2O27â^'Î for Solid Oxide Fuel Cells (SOFCs). International Journal of Chemical Engineering, 2021, 2021, 1-10.	1.4	4
630	Evaluation of BaCo ₀ . ₄ Fe ₀ . ₄ Zr _{0.2â^x} Ni _x O _{ perovskite cathode using nickel as a sintering aid for IT-SOFC. RSC Advances, 2021, 11, 14475-14483.}	∙3â.7î´ <td>)>8</td>)>8
631	Structure and Electrical Properties of a New Zn-Substituted Oxygen Ion Conductor Based on BaLaInO4. Russian Journal of Inorganic Chemistry, 2021, 66, 108-112.	0.3	1
632	A Bulk-Heterostructure Nanocomposite Electrolyte of Ce0.8Sm0.2O2-Î′–SrTiO3 for Low-Temperature Solid Oxide Fuel Cells. Nano-Micro Letters, 2021, 13, 46.	14.4	66
633	Recent Activities of Solid Oxide Fuel Cell Research in the 3D Printing Processes. Transactions of the Korean Hydrogen and New Energy Society, 2021, 32, 11-40.	0.1	9
634	Structure, crystallization, and performances of alkalineâ€earth boroaluminosilicate sealing glasses for SOFCs. Journal of the American Ceramic Society, 2021, 104, 2560-2570.	1.9	4
635	Progress in Material Development for Low-Temperature Solid Oxide Fuel Cells: A Review. Energies, 2021, 14, 1280.	1.6	65
636	Oxidation behavior and electrical conductivity of MAXs phase (Ti,Nb)3SiC2 as a novel intermediate-temperature solid oxide fuel cell interconnect material in anode environment. International Journal of Hydrogen Energy, 2021, 46, 9503-9513.	3.8	9
637	Thermal properties of (Gd0.6Sr0.4)0.99Fe1-xCoxO3-δ cathodes for intermediate temperature solid oxide fuel cells. Ceramics International, 2021, 47, 5407-5414.	2.3	1
638	Study on the long-term discharge and redox stability of symmetric flat-tube solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 9741-9748.	3.8	11
639	Flash sintering of yttriaâ€stabilized zirconia powders coated with nanoscale films of alumina by atomic layer deposition. Journal of the American Ceramic Society, 2021, 104, 2472-2482.	1.9	2
640	Demonstrating the dual functionalities of CeO2–CuO composites in solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 9938-9947.	3.8	15

#	Article	IF	CITATIONS
641	Highly active and novel A-site deficient symmetric electrode material (Sr0.3La0.7)1â^'x (Fe0.7Ti0.3)0.9Ni0.1O3â^´Î´ and its effect on electrochemical performance of SOFCs. International Journal of Hydrogen Energy, 2021, 46, 8778-8791.	3.8	25
642	Deep learning-assisted microstructural analysis of Ni/YSZ anode composites for solid oxide fuel cells. Materials Characterization, 2021, 172, 110906.	1.9	12
643	Numerical simulation of solid oxide fuel cells comparing different electrochemical kinetics. International Journal of Energy Research, 2021, 45, 12980-12995.	2.2	16
644	Effect of Chromium Oxide Additions on the Stability of Glass Ceramic Sealants for Solid Oxide Fuel Cells. Russian Journal of Applied Chemistry, 2021, 94, 323-329.	0.1	2
645	Lanthanum-Containing Proton-Conducting Electrolytes with Perovskite Structures. Membranes and Membrane Technologies, 2021, 3, 73-97.	0.6	29
646	Sodium Site Exchange and Migration in a Polar Stuffed-Cristobalite Framework Structure. Inorganic Chemistry, 2021, 60, 4322-4331.	1.9	2
647	Structural and morphological characterization of the perovskite LaFe0.2Cr0.8-xCoxO3 (x = 0.0, 0.2, 0.4	,) Ţį ĘTQq() 0 0 rgBT /Ov 1
648	Thermomechanical and Electrical Properties of Pr1 – xSrxFe0.8Co0.2O3 (x = 0.3 and 0.4) and Composites Based on Them. Inorganic Materials, 2021, 57, 316-323.	0.2	0
649	On the High-Temperature Oxidation and Area Specific Resistance of New Commercial Ferritic Stainless Steels. Metals, 2021, 11, 405.	1.0	11
650	Bulk and Short ircuit Anion Diffusion in Epitaxial Fe ₂ O ₃ Films Quantified Using Buried Isotopic Tracer Layers. Advanced Materials Interfaces, 2021, 8, 2001768.	1.9	10
651	The effect of the sintering parameters on the structure and oxygen ion conductivity of Y2O3–ZrO2–CeO2 ceramics. Open Ceramics, 2021, 5, 100086.	1.0	6
652	Tailoring electronic structure of perovskite cathode for proton-conducting solid oxide fuel cells with high performance. Journal of Power Sources, 2021, 489, 229486.	4.0	89
653	Undoped Sr2MMoO6 Double Perovskite Molybdates (M = Ni, Mg, Fe) as Promising Anode Materials for Solid Oxide Fuel Cells. Materials, 2021, 14, 1715.	1.3	41
654	Junction and energy band on novel semiconductor-based fuel cells. IScience, 2021, 24, 102191.	1.9	45
655	Electrode/electrolyte interface and interface reactions of solid oxide cells: Recent development and advances. Progress in Natural Science: Materials International, 2021, 31, 341-372.	1.8	39

656	Perovskite Cathode Materials for Low-Temperature Solid Oxide Fuel Cells: Fundamentals to Optimization. Electrochemical Energy Reviews, 2022, 5, 263-311.	13.1	35
657	A review on the preparation of anode materials and anode films for solid oxide fuel cell applications. International Journal of Energy Research, 2021, 45, 14357-14388.	2.2	9
658	Effects of surface structure and defect behavior on the magnetic, electrical, and photocatalytic properties of Gd-doped CeO2 nanoparticles synthesized by a simple chemical process. Materials Characterization, 2021, 174, 110990.	1.9	22

#	Article	IF	CITATIONS
659	Influence of Al3+ doping for V5+ on the structural, optical, thermal and electrical properties of V2-Al O5- (x=0–0.20) ceramics. Ceramics International, 2021, 47, 10724-10732.	2.3	5
660	Facile wet-chemical synthesis and evaluation of physico-chemical characteristics of novel nanocrystalline NdCoO3-based perovskite oxide as cathode for LT-SOFC applications. Bulletin of Materials Science, 2021, 44, 1.	0.8	7
661	Theoretical aspects on doped-zirconia for solid oxide fuel cells: From structure to conductivity. Chinese Journal of Chemical Physics, 2021, 34, 125-136.	0.6	9
662	Direct internal methane reforming in biogas fuelled solid oxide fuel cell; the influence of operating parameters. Energy Science and Engineering, 2021, 9, 1232-1248.	1.9	15
663	A solid oxide fuel cell fuelled by methane recovered from groundwater. Journal of Cleaner Production, 2021, 291, 125877.	4.6	8
664	High spatial resolution temperature profile measurements of solid-oxide fuel cells. Applied Energy, 2021, 288, 116633.	5.1	10
665	Microstructural analysis of highly active cathode material La0.7Sr0.3Ti0.15Fe0.65Ni0.2O3-δ (LSTFN) by optimizing different processing parameters. Ceramics International, 2021, 47, 10893-10904.	2.3	15
666	Progress in Glass-Ceramic Seal for Solid Oxide Fuel Cell Technology. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2021, 82, 39-50.	0.3	4
667	Flexible A-site doping La0.6-xMxSr0.4Co0.2Fe0.8O3 (M=Ca, Ba, Bi; x=0, 0.1, 0.2) as novel cathode material for intermediate-temperature solid oxide fuel cells: A first-principles study and experimental exploration. Journal of Power Sources, 2021, 490, 229564.	4.0	24
668	An Operando calorimeter for high temperature electrochemical cells. JPhys Energy, 2021, 3, 034007.	2.3	0
669	Thermal prehistory, structure and high-temperature thermodynamic properties of Y2O3-CeO2 and Y2O3-ZrO2-CeO2 solid solutions. Ceramics International, 2021, 47, 11072-11079.	2.3	7
670	Novel intermediate temperature solid oxide fuel cell based on La-doped Bi ₄ V ₂ O ₁₁ electrolyte. Advances in Applied Ceramics, 2021, 120, 215-221.	0.6	3
671	Effect of the cobalt content on properties of La2Ni1-xCoxO4+Î'. Solid State Ionics, 2021, 363, 115594.	1.3	3
672	DC 4-Point Measurement for Total Electrical Conductivity of SOFC Cathode Material. Applied Sciences (Switzerland), 2021, 11, 4963.	1.3	8
673	The role of input gas species to the cathode in the oxygen-ion conducting and proton conducting solid oxide fuel cells and their applications: Comparative 4E analysis. International Journal of Hydrogen Energy, 2021, 46, 19569-19589.	3.8	29
674	Perovskite-Type Oxide-Based Dual Composite Cathode for Solid Oxide Fuel Cells: A Short Review. Solid State Phenomena, 0, 317, 417-425.	0.3	0
675	Ba2YCu3O6+Î [^] based cathode material for proton-conducting solid oxide fuel cells. Ceramics International, 2021, 47, 14673-14679.	2.3	11
676	The role of vacuum based technologies in solid oxide fuel cell development to utilize industrial waste carbon for power production. Renewable and Sustainable Energy Reviews, 2021, 142, 110803.	8.2	27

#	Article	IF	CITATIONS
677	Synthesis of Ba0.5Sr0.5Co0.8Fe0.2O3 – δ Oxide Promising as a Cathode Material of Modern Solid-Oxide Fuel Cells. Russian Journal of Inorganic Chemistry, 2021, 66, 662-666.	0.3	4
678	Synthesis of metallic copper nanowires using dielectric barrier discharge plasma and their application in hydrogen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 18866-18877.	3.8	6
679	Ca2Fe1.95Mg0.05O5: Innovative low cost cathode material for intermediate temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 2021, 46, 24555-24566.	3.8	5
680	Simulation of the Electrochemical Impedance in a Three-Dimensional, Complex Microstructure of Solid Oxide Fuel Cell Cathode and Its Application in the Microstructure Characterization. Frontiers in Chemistry, 2021, 9, 627699.	1.8	5
681	Mo,Cu-doped CeO2 as Anode Material of Solid Oxide Fuel Cells (SOFCs) using Syngas as Fuel. Journal of Electrochemical Science and Technology, 2021, 12, 246-256.	0.9	6
682	Non-monotonic lattice parameters variation with crystal size in nanocrystalline CeO2. Journal of Materials Research and Technology, 2021, 12, 87-99.	2.6	12
683	Layered LiCoO2–LiFeO2 Heterostructure Composite for Semiconductor-Based Fuel Cells. Nanomaterials, 2021, 11, 1224.	1.9	9
684	Flat-tubular solid oxide fuel cells and stacks: a review. Journal of Asian Ceramic Societies, 2021, 9, 745-770.	1.0	26
685	Prospects for cost-competitive integrated gasification fuel cell systems. Applied Energy, 2021, 290, 116753.	5.1	13
686	Structure and transport properties of the novel (Dy,Er,Gd,Ho,Y)3Fe5O12 and (Dy,Gd,Ho,Sm,Y)3Fe5O12 high entropy garnets. Journal of the European Ceramic Society, 2021, 41, 3844-3849.	2.8	18
687	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400°C. Advanced Functional Materials, 2021, 31, 2102907.	7.8	21
688	Net Zero and Catalysis: How Neutrons Can Help. Physchem, 2021, 1, 95-120.	0.5	3
689	Analysis of the effect of ionic conductivity of electrolyte materials on the solid oxide fuel cell performance. Eastern-European Journal of Enterprise Technologies, 2021, 3, 41-52.	0.3	1
690	Low-temperature solid oxide fuel cells based on Tm-doped SrCeO2-δ semiconductor electrolytes. Materials Today Energy, 2021, 20, 100661.	2.5	17
691	Adjusting surface oxygen vacancies prompted perovskite as high performance cathode for solid oxide fuel cell. Journal of Alloys and Compounds, 2021, 865, 158746.	2.8	14
692	Degradation Mechanisms of Metal-Supported Solid Oxide Cells and Countermeasures: A Review. Materials, 2021, 14, 3139.	1.3	17
693	Optical and photoluminescence properties of CaV2O6 functionalized by sodium doping. Materials Today Communications, 2021, 27, 102354.	0.9	0
694	Effect of nano-grain carbide formation on electrochemical behavior of 316L stainless steel. Scientific Reports, 2021, 11, 12602.	1.6	7

#	Article	IF	CITATIONS
695	Unveiling the role of carbon defects in the exceptional narrowing of m-ZrO2 wide-bandgap for enhanced photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2021, 46, 21499-21511.	3.8	5
696	The effect of cation substitution on the local coordination of protons in Ba2In1.85M0.15O6H2 (MÂ=ÂIn,) Tj ETQo	q110.784 1.3	1314 rgBT /(
697	Performance evaluation of machined and powder metallurgically fabricated Crofer®22 APU interconnects for SOFC applications. International Journal of Hydrogen Energy, 2022, 47, 3437-3448.	3.8	10
698	Enhanced Model-Free Discrete-Time Adaptive Terminal Sliding-Mode Control for SOFC Power Plant with Input Constraints. Arabian Journal for Science and Engineering, 2022, 47, 2851-2864.	1.7	2
699	A novel multi-physics and multi-dimensional model for solid oxide fuel cell stacks based on alternative mapping of BP neural networks. Journal of Power Sources, 2021, 500, 229784.	4.0	14
700	Tailoring triple charge conduction in BaCo0.2Fe0.1Ce0.2Tm0.1Zr0.3Y0.1O3â^î semiconductor electrolyte for boosting solid oxide fuel cell performance. Renewable Energy, 2021, 172, 336-349.	4.3	26
701	Reliability analysis of a multi-stack solid oxide fuel cell from a systems engineering perspective. Chemical Engineering Science, 2021, 238, 116571.	1.9	6
702	Copper doped SrFe0.9-Cu W0.1O3- (xÂ=Â0–0.3) perovskites as cathode materials for IT-SOFCs. Journal of Alloys and Compounds, 2021, 868, 159127.	2.8	32
703	The progress of fuel cell for malaysian residential consumption: Energy status and prospects to introduction as a renewable power generation system. Renewable and Sustainable Energy Reviews, 2021, 144, 110984.	8.2	53
704	Study on durability of novel core-shell-structured La0.8Sr0.2Co0.2Fe0.8O3-δ@Gd0.2Ce0.8O1.9 composite materials for solid oxide fuel cell cathodes. International Journal of Hydrogen Energy, 2021, 46, 28221-28231.	3.8	20
705	Investigation on temperature-dependent structural, dielectric and impedance characteristics of Cu-doped CaFexTi1-xO3-l´ nanotitanates. Journal of Materials Science: Materials in Electronics, 2021, 32, 22076-22092.	1.1	6
706	In situ Dispersed Nano-Au on Zr-Suboxides as Active Cathode for Direct CO2 Electroreduction in Solid Oxide Electrolysis Cells. Nano Letters, 2021, 21, 6952-6959.	4.5	10
707	High performance tubular protonic ceramic fuel cells via highly-scalable extrusion process. International Journal of Hydrogen Energy, 2021, 46, 27784-27792.	3.8	16
708	Solid oxide fuel cell: Decade of progress, future perspectives and challenges. International Journal of Hydrogen Energy, 2021, 46, 27643-27674.	3.8	253
709	Doping of scandia-stabilized zirconia electrolytes for intermediate-temperature solid oxide fuel cell: A review. Ceramics International, 2021, 47, 32490-32504.	2.3	35
710	Composite of calcium cobaltite with praseodymium-doped ceria: A promising new oxygen electrode for solid oxide cells. International Journal of Hydrogen Energy, 2021, 46, 28258-28269.	3.8	18
711	Characteristics of Sr0.92Y0.08Ti1â^'xNixO3â^'î´ anode for direct internal steam methane reforming in solid oxide fuel cells. Korean Journal of Chemical Engineering, 2021, 38, 1834-1842.	1.2	1
712	Engineering Catalyst Layers for Nextâ€Generation Polymer Electrolyte Fuel Cells: A Review of Design, Materials, and Methods. Advanced Energy Materials, 2021, 11, 2101025.	10.2	85

#	Article	IF	CITATIONS
713	High temperature characteristics and phase compositions of Cu/Mn multilayers with the different average thickness prepared by electrodeposition. Journal of Alloys and Compounds, 2021, 871, 159439.	2.8	12
714	Investigation of the Cr volatilisation using the ceramic phase collector technique. IOP Conference Series: Materials Science and Engineering, 2021, 1163, 012032.	0.3	0
715	Strong Co–Mo Interaction behind Unexpected Physicochemical Properties in SrMo0.9Co0.1O3â~δ Perovskite. Journal of Physical Chemistry C, 2021, 125, 17342-17354.	1.5	2
716	Review on silicate and borosilicateâ€based glass sealants and their interaction with components of solid oxide fuel cell. International Journal of Energy Research, 2021, 45, 20559-20582.	2.2	31
717	Plasma-sprayed lanthanum-doped strontium titanate as an interconnect for solid oxide fuel cells: Effects of powder size and process conditions. Journal of Alloys and Compounds, 2021, 876, 160212.	2.8	6
718	The Effect of Donor Doping on the Ionic (Đž2–, Đ+) Transport in Novel Complex Oxides BaLaIn1 – xNbxO4 + x with the Ruddlesden–Popper Structure. Russian Journal of Electrochemistry, 2021, 57, 962-969.	0.3	4
719	Recent progress in nanostructured electrodes for solid oxide fuel cells deposited by spray pyrolysis. Journal of Power Sources, 2021, 507, 230277.	4.0	37
720	Photoinduced oxygen transport in cobalt double-perovskite crystal EuBaCo2O5.39. Applied Materials Today, 2021, 24, 101167.	2.3	3
721	Characterization of the conductivity distribution and leakage current in proton-conducting ceramic electrolyte through modeling and sensitivity analysis. International Journal of Hydrogen Energy, 2021, 46, 31370-31381.	3.8	9
722	Improved mechanical strength, proton conductivity and power density in an 'all-protonic' ceramic fuel cell at intermediate temperature. Scientific Reports, 2021, 11, 19382.	1.6	21
723	Efficient symmetrical electrodes based on LaCrO3 via microstructural engineering. Journal of the European Ceramic Society, 2022, 42, 181-192.	2.8	10
724	Applications and recent advances of rare earth in solid oxide fuel cells. Journal of Rare Earths, 2022, 40, 1668-1681.	2.5	35
725	Self-Assembled Triple (H+/O2â^'/eâ^') Conducting Nanocomposite of Ba-Co-Ce-Y-O into an Electrolyte for Semiconductor Ionic Fuel Cells. Nanomaterials, 2021, 11, 2365.	1.9	1
726	Optimal parameter estimation strategy of PEM fuel cell using gradient-based optimizer. Energy, 2022, 239, 122096.	4.5	58
727	Recovery and applications of ammoniacal nitrogen from nitrogen-loaded residual streams: A review. Journal of Environmental Management, 2021, 295, 113096.	3.8	24
728	High-performing and stable non-doped ceria electrolyte with amorphous carbonate coating layer for low-temperature solid oxide fuel cells. Electrochimica Acta, 2021, 393, 139067.	2.6	28
729	A Sr and Ni doped Ruddlesdenâ~'Popper perovskite oxide La1.6Sr0.4Cu0.6Ni0.4O4+δ as a promising cathode for protonic ceramic fuel cells. Journal of Power Sources, 2021, 509, 230369.	4.0	31
730	Medium-Entropy perovskites Sr(FeαTiβCoγMnζ)O3- as promising cathodes for intermediate temperature solid oxide fuel cell. Applied Catalysis B: Environmental, 2021, 295, 120264.	10.8	77

#	Article	IF	CITATIONS
731	Efficiency and stability of hydrogen production from seawater using solid oxide electrolysis cells. Applied Energy, 2021, 300, 117439.	5.1	38
732	Phase structure and properties of sodium bismuth titanate lead-free piezoelectric ceramics. Progress in Materials Science, 2021, 122, 100836.	16.0	139
733	Interfacial characterization and mechanical properties of reactive air brazed ZrO2 ceramic joints with Ag–CuO–Al2TiO5 composite filler metal. Ceramics International, 2021, 47, 29128-29138.	2.3	7
734	Structure, ionic transport properties and ion dynamics of Ce0.8Y0.2O1.9 oxygen ion conductor: Understanding the impact of sintering temperature. Journal of Solid State Chemistry, 2021, 303, 122451.	1.4	4
735	Development of a novel electroless deposited nickel braze for micro-tubular solid oxide fuel cell current collector contacting. Journal of Advanced Joining Processes, 2021, 4, 100070.	1.5	2
736	Revisiting the cubic crystal structures of Sr4Nb2O9 and Sr5Nb2O10. Journal of Solid State Chemistry, 2021, 303, 122502.	1.4	0
737	Atomic layer deposited boron nitride nanoscale films act as high temperature hydrogen barriers. Applied Surface Science, 2021, 565, 150428.	3.1	9
738	Geometric structure distribution and oxidation state demand of cations in spinel NixFe1-xCo2O4 composite cathodes for solid oxide fuel cells. Chemical Engineering Journal, 2021, 425, 131822.	6.6	36
739	Photocatalytic fuel cell – A review. Chemical Engineering Journal, 2022, 428, 131074.	6.6	57
740	Glass Reactive Sintering. , 2021, , 728-745.		1
741	Effect of sintering temperature on the crystal structure of SrMnO3. AIP Conference Proceedings, 2021, , .	0.3	1
742	High-Performance, Thermal Cycling Stable, Coking-Tolerant Solid Oxide Fuel Cells with Nanostructured Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 4993-4999.	4.0	20
743	Functional material developments of fuel cells and the key factors for real commercialization of next-generation energy devices. , 2021, , 85-100.		4
744	The effect of oxygen pressure in active brazing 8YSZ and Crofer 22H alloy. Journal of Materials Research and Technology, 2021, 10, 1382-1388.	2.6	5
745	Electrochemical Properties of a Dual-Ion Semiconductor-Ionic Co _{0.2} Zn _{0.8} O-Sm _{0.20} Ce _{0.80} O _{2â^îr} Composite for a High-Performance Low-Temperature Solid Oxide Fuel Cell. ACS Applied Energy Materials, 2021, 4, 194-207.	2.5	21
746	Phonon–Ion Interactions: Designing Ion Mobility Based on Lattice Dynamics. Advanced Energy Materials, 2021, 11, 2002787.	10.2	55
747	Fabrication of highâ€quality electrode films for solid oxide fuel cell by screen printing: A review on important processing parameters. International Journal of Energy Research, 2020, 44, 8296-8313.	2.2	40
748	Solid Oxide Fuel Cell Materials and Interfaces. , 2020, , 1275-1305.		2

#	Article	IF	CITATIONS
749	Safe heating-up of a full scale SOFC system using 3D multiphysics modelling optimisation. International Journal of Hydrogen Energy, 2018, 43, 354-362.	3.8	28
750	Torsional shear strength behavior of advanced glass-ceramic sealants for SOFC/SOEC applications. Journal of the European Ceramic Society, 2020, 40, 4067-4075.	2.8	26
751	Durability of nanostructured LaPrNiO4+δ electrode for solid oxide cells: Electrochemical, microstructural, and structural investigation. Journal of Power Sources, 2020, 450, 227724.	4.0	7
752	Structural, optical, thermal and conducting properties of V2â^'xLixO5â^'δ (0.15 â‰≇€‰x â‰≇€‰0.30) Reports, 2020, 10, 1089.	systems. 1.0	Scientific
753	Electrochemical Energy Storage. Issues in Environmental Science and Technology, 2018, , 115-149.	0.4	11
754	Utilizing hydrogen underpotential deposition in CO reduction for highly selective formaldehyde production under ambient conditions. Green Chemistry, 2020, 22, 5639-5647.	4.6	14
755	Reliability analysis for a multi-stack solid oxide fuel cell system subject to operation condition-dependent degradation. Journal of Quality in Maintenance Engineering, 2022, 28, 102-130.	1.0	1
756	Electrochemical Sulfur Oxidation in Solid Oxide Fuel Cells Studied by Near Infrared Thermal Imaging and Chronocoulometry. Journal of the Electrochemical Society, 2020, 167, 164511.	1.3	2
757	INFLUENCE OF SINTERING TEMPERATURE ON THE POLARIZATION RESISTANCE OF LaO20.6SrO20.4CoO20.2FeO20.8O3-δ - SDC CARBONATE COMPOSITE CATHODE. Ceramics - Silikaty, 2016, , 115-121.	0.2	15
758	Place of electrophoretic deposition among thin-film methods adapted to the solid oxide fuel cell technology: A short review. International Journal of Energy Production and Management, 2019, 4, 1-27.	1.9	23
759	A brief review of the bilayer electrolyte strategy to achieve high performance solid oxide fuel cells. Ceramist, 2020, 23, 184-199.	0.0	3
760	Performance of a Direct Methane Solid Oxide Fuel Cell Using Nickel-Ceria-Yttria Stabilized Zirconia as the Anode. Materials, 2020, 13, 599.	1.3	13
761	Designing Hydrogen and Oxygen Flow Rate Control on a Solid Oxide Fuel Cell Simulator Using the Fuzzy Logic Control Method. Processes, 2020, 8, 154.	1.3	10
762	The Role of Metal Catalyst on Water Permeation and Stability of BaCe0.8Y0.2O3-δ. Journal of Electrochemical Science and Technology, 2018, 9, 212-219.	0.9	3
763	Overview on Ceramic and Nanostructured Materials for Solid Oxide Fuel Cells (SOFCs) Working at Different Temperatures. Journal of Electrochemical Science and Technology, 2020, 11, 99-116.	0.9	19
764	Controlling Yttria-stabilized zirconia/gadolinia-doped ceria interdiffusion layer in the solid oxide fuel cell electrolyte via flash sintering method. Ionics, 2021, 27, 5219-5227.	1.2	6
765	Recent progress of perovskite-based electrolyte materials for solid oxide fuel cells and performance optimizing strategies for energy storage applications. Materials Research Bulletin, 2022, 146, 111612.	2.7	74
766	Surface Structure Analysis of Initial High-Temperature Oxidation of SS441 Stainless Steel. Materials, 2021, 14, 6136.	1.3	1

#	Article	IF	CITATIONS
767	Current trends in the description of lanthanum-strontium-manganite oxygen electrode reaction mechanism in a high-temperature solid oxide cell. Current Opinion in Electrochemistry, 2021, , 100852.	2.5	5
768	Optical and electrical conductivity properties of rare earth elements (Sm, Y, La, Er) co-doped CeO2. Journal of Rare Earths, 2022, 40, 1619-1627.	2.5	15
769	Materials development and prospective for protonic ceramic fuel cells. International Journal of Energy Research, 2022, 46, 2212-2240.	2.2	29
770	Study on Gelatin-Based Nitrogen-Doped Graphene/Carbon Based Oxygen Reduction Catalyst. Sustainable Energy, 2015, 05, 42-48.	0.1	0
771	La necesidad de incorporar el hidrógeno como potencial fuente alterna de energÃa en la legislación mexicana. Revista Catalana De Dret Ambiental, 2015, 6, .	0.0	0
773	Perovskit tipi proton ileten bir malzemenin sentezi, karakterizasyonu ve iletkenlik ölçümü. Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 0, , 58-63.	0.2	0
775	Elucidation of Morphological Behavior on the Samarium Strontium Cobaltite Carbonate Composite Cathode for LTSOFC. International Journal of Current Research in Science Engineering & Technology, 2018, 1, 342.	0.1	0
776	Synthesis of easily sinterable ceramic electrolytes based on Bi-doped 8YSZ for IT-SOFC applications. AIMS Materials Science, 2019, 6, 610-620.	0.7	6
777	Influence of Yttria-Stabilized Zirconia on Microstructure and Electrical Properties of Doped Lanthanum Gallate. Materials Research, 2019, 22, .	0.6	2
778	pyscses: a PYthon Space-Charge Site-Explicit Solver. Journal of Open Source Software, 2019, 4, 1209.	2.0	0
779	Synthesis of Dy and Yb Co-Doped CeO2 by Hydrothermal Method and Crystal Structure Analysis. Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2019, 12, 841-849.	0.1	2
780	Active technological control of synthesis of high-active catalysts on the surface of solid electrolytes of fuel elements. Journal of Physics: Conference Series, 2020, 1553, 012016.	0.3	5
781	Effect of Off-Stoichiometry on Electrical Conductivity in Ni-Fe and Mn-Co Spinel Systems. Journal of the Electrochemical Society, 2020, 167, 124515.	1.3	7
782	High Oxygen Exchange Activity of Pristine La _{0.6} Sr _{0.4} FeO _{3–î´} ÂFilms and Its Degradation. Journal of the Electrochemical Society, 2020, 167, 124509.	1.3	11
783	Comparative fuel cell sustainability assessment with a novel approach. International Journal of Hydrogen Energy, 2022, 47, 575-594.	3.8	22
784	Oxygen ionic transport in LaInO3 and LaIn0.5Zn0.5O2.75 perovskites: Theory and experiment. Solid State Ionics, 2021, 372, 115790.	1.3	9
785	La 3+-substituted Sr2Fe1.5Ni0.1Mo0.4O6-δ as Anodes for Solid Oxide Fuel Cells. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2020, 35, 617.	0.6	3
786	Solid Electrolyte Membranes for Low- and High-Temperature Fuel Cells. Advances in Science, Technology and Innovation, 2021, , 109-125.	0.2	0

#	Article	IF	CITATIONS
787	Dense and Low Oxygen Permeability Bilayer Ceramic Interconnect for Tubular Anode-Support Solid Oxide Cells. ACS Applied Energy Materials, 2021, 4, 341-349.	2.5	1
788	Triple-Phase Boundaries (TPBs) in Fuel Cells and Electrolyzers. , 2022, , 299-328.		2
789	Coupling mechanism of mass transport and electrochemical reaction within patterned anode of solid oxide fuel cell. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 098801.	0.2	2
790	Electrical and Mechanical Properties of Zirconia-Graphene Composites. Reviews on Advanced Materials and Technologies, 2020, 2, 27-41.	0.1	2
791	Experimental set-up design of SOFC single cell performance using simple furnace with maximum temperature of 1000 degrees. Eastern-European Journal of Enterprise Technologies, 2020, 1, 68-76.	0.3	1
792	Microtube Membranes for the Selective Synthesis of Oxygen and Hydrogen. Russian Journal of Electrochemistry, 2021, 57, 1019-1027.	0.3	4
793	Understanding the oxygen-vacancy-related catalytic cycle for H2 oxidation on ceria-based SOFC anode and the promotion effect of lanthanide doping from theoretical perspectives. Applied Surface Science, 2022, 576, 151803.	3.1	6
794	Lattice Expansion of BaCe _{0.54} Zr _{0.36} Y _{0.1} O _{3-δ } Ceramic Electrolyte. Solid State Phenomena, 0, 307, 149-153.	0.3	1
795	Exsolution of Ni nanoparticles on the surface of cerium and nickel co-doped lanthanum strontium titanate as a new anodic layer for DIR-SOFC. Anti-coking potential and H2S poisoning resistance of the prepared material. International Journal of Hydrogen Energy, 2020, 45, 29186-29200.	3.8	11
796	Tailoring high-temperature stability and electrical conductivity of high entropy lanthanum manganite for solid oxide fuel cell cathodes. Journal of Materials Chemistry A, 2022, 10, 2256-2270.	5.2	37
797	Oxidation mechanism of in-situ TiC/Ni composites at 1073ÂK. Corrosion Science, 2022, 194, 109958.	3.0	3
798	Perovskite-structured cobalt-free cathode materials for solid oxide fuel cells. , 2022, , 357-373.		2
799	Scandium-doped barium ceria ferrites-based composite mixed conducting hollow fiber membranes for H2 and O2 permeation. Journal of Industrial and Engineering Chemistry, 2021, 107, 100-100.	2.9	3
800	Effect of sintering temperature on the transport properties of La2Ce2O7 ceramic materials. Ceramics International, 2022, 48, 6758-6766.	2.3	7
801	Nano-LaCoO3 infiltrated BaZr0.8Y0.2O3â^' electrodes for steam splitting in protonic ceramic electrolysis cells. , 2022, 1, 100003.		10
802	A Peer Review of Hybrid Electric Vehicle Based on Step-Up Multi-input Dc-Dc Converter and renewable energy source. Journal of Physics: Conference Series, 2021, 2089, 012041.	0.3	2
803	In Situ Evaluation of the Influence of Interstitial Oxygen on the Elastic Modulus of La2NiO4. Metals, 2021, 11, 1889.	1.0	0
804	Glass-ceramic sealants and steel interconnects: Accelerated interfacial stability and reactivity tests at high temperature. Materials and Design, 2021, 212, 110259.	3.3	3

#	Article	IF	CITATIONS
805	Application of spin polarized 190 beam to the study of oxygen motion in solid oxide fuel cell materials. Hyperfine Interactions, 2021, 242, 1.	0.2	0
806	Lanthanum nickelates and their application in Solid Oxide Cells – The LaNi1-xFexO3 system and other ABO3-type nickelates. Solid State Ionics, 2021, 373, 115799.	1.3	9
807	Effects of Oxygen Partial Pressure and Substrate Temperature on the Structure and Morphology of Sc and Y Co-Doped ZrO2 Solid Electrolyte Thin Films Prepared via Pulsed Laser Deposition. Materials, 2022, 15, 410.	1.3	3
808	Component fabrication techniques for solid oxide fuel cell (SOFC) – A comprehensive review and future prospects. International Journal of Green Energy, 2022, 19, 1600-1612.	2.1	12
809	EPR Study of CeO ₂ Nano Particles. Materials Science Forum, 0, 1048, 130-138.	0.3	0
810	Understanding the favorable CO2 tolerance of Ca-doped LaFeO3 perovskite cathode for solid oxide fuel cells. Journal of Power Sources, 2022, 521, 230907.	4.0	12
811	A review on recent advances and trends in symmetrical electrodes for solid oxide cells. Journal of Power Sources, 2022, 520, 230852.	4.0	58
812	Optimisation of high-performance, cobalt-free SrFe1-xMoxO3-δ cathodes for solid oxide fuel cells prepared by spray pyrolysis. Renewable Energy, 2022, 185, 1167-1176.	4.3	11
813	Improved electrochemical oxidation kinetics of La0.5Ba0.5FeO3-δ anode for solid oxide fuel cells with fluorine doping. Journal of Power Sources, 2022, 521, 230932.	4.0	26
814	A review on recent progress and selection of cobalt-based cathode materials for low temperature-solid oxide fuel cells. Renewable and Sustainable Energy Reviews, 2022, 156, 111985.	8.2	34
815	Eletrodeposição de ligas Mn-Co em aço inoxidável ferrÃŧico AISI 430 a partir da reciclagem de baterias Ãon-Li: aplicação em interconectores das PaCOS. Revista Materia, 2021, 26, .	0.1	1
816	Electrochemical study of symmetrical intermediate temperature - solid oxide fuel cells based on La0.6Sr0.4MnO3 / Ce0.9Gd0.1O1.95 for operation in direct methane / air. Electrochimica Acta, 2022, 409, 139939.	2.6	7
817	Hybrid-3D printing of symmetric solid oxide cells by inkjet printing and robocasting. Additive Manufacturing, 2022, 51, 102636.	1.7	5
818	A perspective on development of fuel cell materials: Electrodes and electrolyte. International Journal of Energy Research, 2022, 46, 6953-6988.	2.2	47
819	Layered-perovskite oxides with <i>in situ</i> exsolved Co–Fe alloy nanoparticles as highly efficient electrodes for high-temperature carbon dioxide electrolysis. Journal of Materials Chemistry A, 2022, 10, 2327-2335.	5.2	26
820	Recent advances and prospects of symmetrical solid oxide fuel cells. Ceramics International, 2022, 48, 8972-8986.	2.3	31
821	Improvement of La0.8Sr0.2MnO3â^î^ Cathode Material for Solid Oxide Fuel Cells by Addition of YFe0.5Co0.5O3. Materials, 2022, 15, 642.	1.3	7

#	Article	IF	CITATIONS
823	Exsolution in La and Ni co-doped strontium titanate: a suitable anode for running SOFCs on ammonia as alternative fuel. E3S Web of Conferences, 2022, 334, 04008.	0.2	0
824	Electrochemical Performance of SrMg0.1Mo0.9O3-Based Composites for Solid Oxide Fuel Cell Anodes. ACS Applied Energy Materials, 0, , .	2.5	5
825	High-performance anode-supported solid oxide fuel cells with co-fired Sm0.2Ce0.8O2-Î′/La0.8Sr0.2Ca0.8Mg0.2O3â^Î′/Sm0.2Ce0.8O2-Î′ sandwiched electrolyte. International Journal of Hydrogen Energy, 2022, 47, 5429-5438.	3.8	12
826	Preparation and characterization of RHA based ceramic membrane for gas leak testing in SOFC seals. IOP Conference Series: Earth and Environmental Science, 2022, 969, 012052.	0.2	0
827	Protective Coatings for Ferritic Stainless Steel Interconnect Materials in High Temperature Solid Oxide Electrolyser Atmospheres. Energies, 2022, 15, 1168.	1.6	8
828	Metal-supported solid oxide fuel cells operating with reformed natural gas and sulfur. International Journal of Hydrogen Energy, 2022, 47, 11261-11269.	3.8	14
829	Towards Integration of Two-Dimensional Hexagonal Boron Nitride (2D h-BN) in Energy Conversion and Storage Devices. Energies, 2022, 15, 1162.	1.6	21
830	Highly active and stable BaCo0.8Zr0.1Y0.1O3-δ cathode for intermediate temperature solid oxide fuel cells. Journal of the European Ceramic Society, 2022, 42, 2860-2869.	2.8	14
831	Analysis of mass transport in solid oxide fuel cells using a thermodynamically consistent model. International Journal of Energy Research, 2022, 46, 6487-6497.	2.2	1
832	Development of Ammonia Fueled Solid Oxide Fuel Cells. Ceramist, 2021, 24, 368-385.	0.0	1
834	Advanced ceramic membrane design for gas separation and energy application. , 2022, , 239-268.		1
835	Strain Relaxation in Epitaxial Srti0.5fe0.5o3â^. SSRN Electronic Journal, 0, , .	0.4	0
836	Superior Electrical Conduction Behavior in Perovskite Structure Nanbo3 Ceramics. SSRN Electronic Journal, 0, , .	0.4	0
837	A brief review of heterostructure electrolytes for high-performance solid oxide fuel cells at reduced temperatures. Journal of the Korean Ceramic Society, 2022, 59, 131-152.	1.1	12
838	The role of cobalt on cathode material for intermediate temperature solid oxide fuel cells: A review. International Journal of Hydrogen Energy, 2022, , .	3.8	0
839	Using Microwave Irradiation for In-situ Infiltration of Electrodes in Solid Oxide Fuel Cells. Materials Technology, 2022, 37, 2480-2489.	1.5	2
840	Development of ceramic fiber reinforced glass ceramic sealants for microtubular solid oxide fuel cells. Ceramics International, 2022, 48, 15703-15710.	2.3	5
841	Operando X-Ray Diffraction Analysis of a Microtubular La0.6Sr0.4Co0.2Fe0.8O3 – δ Membrane. Russian Journal of Electrochemistry, 2022, 58, 100-104.	0.3	1

		CITATION REPORT	
# 842	ARTICLE Understanding δ-Bi2O3 fluorite degradation mechanism and related solutions for promising	IF 2.3	Citations 2
843	Analysis of Lanthanum and Cobalt Leaching Aimed at Effective Recycling Strategies of Solid Oxide	1.6	1
844	Cells. Sustainability, 2022, 14, 3335. Praseodymium Orthoniobate and Praseodymium Substituted Lanthanum Orthoniobate: Electrical a Structural Properties. Materials, 2022, 15, 2267.		5
845	Enhancement of electrochemical performance for proton conductive solid oxide fuel cell by 30%GDC-LSCF cathode. Ceramics International, 2022, 48, 17816-17827.	2.3	15
846	Advances in Inkjetâ \in Printed Solid Oxide Fuel Cells. Advanced Materials Technologies, 2022, 7, .	3.0	9
847	Catalytic behavior of Pr1-xBa1+xCo2O6-δin alkaline medium. International Journal of Hydrogen Ene 2022, 47, 12582-12591.	rgy, 3.8	4
848	SOFC-Gas Turbine Hybrid Power Plant: Exergetic Study. , 0, , .		2
849	Advanced Materials for Thinâ€Film Solid Oxide Fuel Cells: Recent Progress and Challenges in Boosti the Device Performance at Low Temperatures. Advanced Functional Materials, 2022, 32, .	ng 7.8	51
850	Lanthanum nickelate as an efficient oxygen electrode for solid oxide electrolysis cell. Fuel Cells, 0, ,	. 1.5	2
851	Preparation, Microstructure and Thermal Conductivity of Plasma-Sprayed (Y0.8Gd0.2)3Al5O12 Coatings. Coatings, 2022, 12, 510.	1.2	0
852	Enhanced chemical stability and electrochemical performance of BaCe0.8Y0.1Ni0.04Sm0.06O3- perovskite electrolytes as proton conductors. Ceramics International, 2022, 48, 10650-10658.	2.3	16
853	Synthesis of γâ€Bi ₂ O ₃ /YSZ composite powders using a facile precipita method. International Journal of Applied Ceramic Technology, 0, , .	1.1	1
854	Comparison of nanostructured composite cathodes synthesized by liquid self-assembly and nanoso mechanical-mixing for solid oxide fuel cell. International Journal of Hydrogen Energy, 2022, 47, 15721-15730.	lid 3.8	3
855	Reversible cycling performance of a flat-tube solid oxide cell for seawater electrolysis. Energy Conversion and Management, 2022, 258, 115543.	4.4	7
856	LaCrO ₃ –CeO ₂ -Based Nanocomposite Electrodes for Efficient Symmetr Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2022, 5, 4536-4546.	ical 2.5	7
857	Grid-shape electrical circuit assembled with resistance temperature detectors for multipoint temperature measurement of solid oxide fuel cells. Journal of Power Sources, 2022, 530, 231293.	4.0	1
858	High performance oxygen permeation membrane: Sr and Ti co-doped BaFeO3-δ ceramics. Separatio Purification Technology, 2022, 289, 120742. A review on solid oxide fuel cell durability: Latest progress, mechanisms, and study tools. Renewable	3.9	11
859	and Sustainable Energy Reviews, 2022, 161, 112339.	8.2	116

#	Article	IF	CITATIONS
860	Printability of carboxymethyl cellulose/glass-containing inks for robocasting deposition in reversible solid oxide cell applications. Materials Letters, 2022, 318, 132239.	1.3	5
861	Solid Oxide Cell Electrode Nanocomposites Fabricated by Inkjet Printing Infiltration of Ceria Scaffolds. Nanomaterials, 2021, 11, 3435.	1.9	3
862	Electrochemical Characterization of Novel Polyantimonic-Acid-Based Proton Conductors for Low- and Intermediate-Temperature Fuel Cells. Applied Sciences (Switzerland), 2021, 11, 11877.	1.3	3
863	Evaluation of the Oxygen Migration Energy in Doped Ceria by Terahertz Spectroscopy. Physical Review Applied, 2021, 16, .	1.5	3
864	Boosting performance of the solid oxide fuel cell by facile nano-tailoring of La0.6Sr0.4CoO3-δ cathode. International Journal of Hydrogen Energy, 2022, 47, 37587-37598.	3.8	18
865	Fabrication of YSZ electrolyte layers using thermally assisted slurry spin coating method for IT-SOFC application. Monatshefte Für Chemie, 2022, 153, 183-192.	0.9	0
866	Fracture toughness of reactive bonded Co–Mn and Cu–Mn contact layers after long-term aging. Ceramics International, 2022, 48, 20699-20711.	2.3	2
867	<pre><mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>).7<td>nn><mml•n< td=""></mml•n<></td></td></mml:math></pre>).7 <td>nn><mml•n< td=""></mml•n<></td>	nn> <mml•n< td=""></mml•n<>

#	Article	IF	CITATIONS
879	Unconventional Highly Active and Stable Oxygen Reduction Catalysts Informed by Computational Design Strategies. Advanced Energy Materials, 2022, 12, .	10.2	4
880	Anodic Polarization Characteristics in Hydrogen and Methane Oxidations at Nickel-Cobalt Yttria-Stabilized Zirconia Cermet Relating to Prolonged Cell Performance Stability. SSRN Electronic Journal, 0, , .	0.4	0
881	Inkjet Printing of Perovskite Ceramics for High-Performance Proton Ceramic Fuel Cells. SSRN Electronic Journal, 0, , .	0.4	0
882	NiO-GDC nanowire anodes for SOFCs: novel growth, characterization and cell performance. Materials Advances, 2022, 3, 5922-5929.	2.6	2
883	A Lattice Boltzmann Analysis of the Performance and Mass Transport of a Solid Oxide Fuel Cell with a Partially Obstructed Anode Flow Channel. SSRN Electronic Journal, 0, , .	0.4	0
884	Self-assembled, high-performing cobalt-free Ba0.5A0.5Fe0.8Zr0.2O3-δ (A=Sr2+/Sm3+) composite cathode for intermediate-temperature solid oxide fuel cells. Ceramics International, 2022, 48, 28669-28677.	2.3	4
885	Zirconia-Based Nanomaterials for Alternative Energy Application: Concept of Research in Smart Laboratory. Arabian Journal for Science and Engineering, 0, , .	1.7	1
886	The Effect of a Dense Layer with Mixed Ionic–Electronic Conduction on the Characteristics of an SOFC Cathode. Russian Journal of Electrochemistry, 2022, 58, 490-501.	0.3	3
887	Three-dimensional imaging of grain boundaries via quantitative fluorescence X-ray tomography analysis. Communications Materials, 2022, 3, .	2.9	5
888	Glass-ceramic joining of Fe22Cr porous alloy to Crofer22APU: interfacial issues and mechanical properties. Ceramics International, 2022, 48, 28519-28527.	2.3	2
889	Crystallization behavior and properties of a novel rare-earth rich BaO–SiO2–La2O3 glass-ceramic for millimeter-wave technology. Ceramics International, 2022, 48, 27913-27921.	2.3	11
890	Recent Progress in the Design, Characterisation and Application of LaAlO3- and LaGaO3-Based Solid Oxide Fuel Cell Electrolytes. Nanomaterials, 2022, 12, 1991.	1.9	27
891	Experimental and Computational Insights into the Anomalous Thermal Expansion of (Nh4)Reo4,. SSRN Electronic Journal, 0, , .	0.4	0
892	Pyrochlores as cathodes in solid oxide fuel cells. , 2022, , 433-448.		1
893	Enhanced Electrochemical Performance by Structural Design of Electrolyte Surface Combining 3d Printing Technology with Multi-Physical Modeling. SSRN Electronic Journal, 0, , .	0.4	0
894	Understanding oxide ion transport in yttria stabilized zirconia: fresh insights from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2022, 24, 18281-18290.	1.3	2
895	Charge and electric field distributions in the interelectrode region of an inhomogeneous solid electrolyte. Condensed Matter Physics, 2022, 25, 23501.	0.3	0
896	Converting Brownmillerite to Alternate Layers of Oxygenâ€Deficient and Conductive Nanoâ€Sheets with Enhanced Thermoelectric Properties. Advanced Energy Materials, 2022, 12, .	10.2	5

#	Article	IF	CITATIONS
897	An Unbalanced Battle in Excellence: Revealing Effect of Ni/Co Occupancy on Water Splitting and Oxygen Reduction Reactions in Triple onducting Oxides for Protonic Ceramic Electrochemical Cells. Small, 2022, 18, .	5.2	16
898	High-temperature transport properties of BaSn1â^xScxO3â^î^ ceramic materials as promising electrolytes for protonic ceramic fuel cells. Journal of Advanced Ceramics, 2022, 11, 1131-1143.	8.9	24
899	Investigation of La0.6Sr0.4Co1-xNixO3-î´ (x=0, 0.2, 0.4, 0.6, 0.8) catalysts on solid oxide fuel cells anode for biogas dry reforming. International Journal of Hydrogen Energy, 2022, , .	3.8	2
900	Fabrication and Characterization of a Composite Ni-SDC Fuel Cell Cathode Reinforced by Ni Foam. Materials, 2022, 15, 4891.	1.3	3
901	A New Type of Microtubular Oxygen Permeable Membranes Fabricated by Phase Inversion with the Use of Additive Manufacturing Technologies. Russian Journal of Electrochemistry, 2022, 58, 585-593.	0.3	0
902	Interfacial ionic conductivity of twoâ~dimensional heterogeneous semiconductor ZnO composited with Zn2SiO4 derived from natural clay mineral vermiculite. Ceramics International, 2022, 48, 32436-32443.	2.3	1
903	A-site double-lanthanide-doped La1â^'xPrxBaCo2O5+Î′ cathode materials for intermediate-temperature solid oxide fuel cells. Journal of Materials Science, 2022, 57, 14398-14412.	1.7	6
904	Recycling Strategies for Solid Oxide Cells. Advanced Energy Materials, 2022, 12, .	10.2	11
905	Zirconia- and ceria-based electrolytes for fuel cell applications: critical advancements toward sustainable and clean energy production. Environmental Science and Pollution Research, 2022, 29, 64489-64512.	2.7	21
906	Influence of Ta doping on the structural stability and conductivity of Sr11Mo4O23 electrolyte. Ceramics International, 2022, , .	2.3	0
907	The microstructure and thermo–electrical characterization of the Tb–Gd–Ho co–doped stabilized Bi2O3 based solid electrolyte systems. Chinese Journal of Physics, 2022, 79, 89-97.	2.0	6
908	Spatial sulfur poisoning behavior associated with inâ€plane electrochemical performance variation of solid oxide fuel cells. Fuel Cells, 0, , .	1.5	1
909	Efficiencies of cobalt- and copper-based coatings applied by different deposition processes for applications in intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2022, 47, 32628-32640.	3.8	7
910	Microstructure and long-term stability of Ni–YSZ anode supported fuel cells: a review. Materials Futures, 2022, 1, 042101.	3.1	11
911	Effect of Cu2+ substitution on structural, electrical and dielectric properties of bismuth vanadate by impedance spectroscopic studies. Journal of Electroceramics, 2022, 49, 63-76.	0.8	1
912	Electrophoretic deposition and low-temperature densification of Cu1.35Mn1.65O4 spinel for an interconnect protective coating in solid oxide fuel cells. International Journal of Hydrogen Energy, 2022, 47, 33410-33419.	3.8	8
913	Effect of angstrom-level oxide overcoat on Sr segregation behavior of LSM electrodes. International Journal of Hydrogen Energy, 2022, 47, 33058-33066.	3.8	5
914	Anodic polarization characteristics in hydrogen and methane oxidations at nickel-cobalt yttria-stabilized zirconia cermet relating to prolonged cell performance stability. Electrochimica Acta, 2022, 431, 141008.	2.6	3

#	Article	IF	CITATIONS
915	Deconvolution of deterioration of anode-supported cells by chromium poisoning from alumina-forming austenitic stainless steels for balance of plant applications in solid oxide fuel cells. Electrochimica Acta, 2022, 428, 140933.	2.6	5
916	A heterostructure p-n junction constituting of fluorite and perovskite semiconductors for electrochemical energy conversion. Energy Conversion and Management, 2022, 269, 116107.	4.4	13
917	Review of thermal partial oxidation reforming with integrated solid oxide fuel cell power generation. Renewable and Sustainable Energy Reviews, 2022, 168, 112852.	8.2	6
918	Alleviated surface calcium segregation and improved electrocatalytic properties of La0.3Ca0.7Fe0.7Cr0.3O3-Ĩ´cathode: A demonstration of A-site deficiency effect. Journal of Alloys and Compounds, 2022, 924, 166615.	2.8	9
919	Assessing performance degradation induced by thermal cycling in solid oxide cells. Energy Conversion and Management, 2022, 270, 116239.	4.4	7
920	Experimental and computational insights into the anomalous thermal expansion of (NH4)ReO4. Journal of Solid State Chemistry, 2022, 315, 123531.	1.4	0
921	Developing a new Sr and Co-free composite cathode of solid oxide fuel cells with high performance. Chemical Physics Letters, 2022, 806, 140037.	1.2	6
922	Effect of ratios of dopant contents on the electrical conductivity of Bi2O3 ceramics co–doped with some rare earth oxides. Materials Today Communications, 2022, 33, 104542.	0.9	3
923	Enhanced electrochemical performance by structural design of electrolyte surface combining 3D printing technology with multi-physical modelling. Chemical Engineering Journal, 2023, 451, 139038.	6.6	8
924	The preparation and electrochemical properties of Nd _{0.6} Sr _{0.4} Fe _{1â[^]<i>x</i>} Zn _{<i>x</i>} O _{3â[^]<i>î[']cathode materials for intermediate temperature solid oxide fuel cells. Physical Chemistry Chemical Physics, 2022, 24, 23903-23909.</i>}	⁾ } 1.3	2
925	Fuel cells systems for sustainable ships. , 2022, , 81-121.		1
926	Synthesis and Characterization of Sm/Zr Co-Doped CeO ₂ Ceramic for Solid Electrolyte Application. Key Engineering Materials, 0, 930, 9-14.	0.4	0
927	Recent advances in electrode material for symmetrical solid oxide fuel cells and way forward sustainability based on local mineral resources. International Journal of Energy Research, 2022, 46, 22188-22221.	2.2	11
928	Prolonged flash sintering and its effects on defect chemistry, phase transformation and ionic conductivity of yttria-stabilized zirconia. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	2
929	Yttria-Stabilized Zirconia Nanoparticles─Carbon Nanotube Composite as a Polysulfide-Capturing Lithium–Sulfur Battery Separator. ACS Applied Energy Materials, 2022, 5, 12196-12205.	2.5	4
930	Design of SrZr0.1Mn0.4Mo0.4Y0.1O3-δheterostructured with ZnO as electrolyte material: Structural, optical and electrochemical behavior at low temperatures. Ceramics International, 2023, 49, 2174-2182.	2.3	5
931	Electrolyte materials for protonic ceramic electrochemical cells: Main limitations and potential solutions. Materials Reports Energy, 2022, 2, 100158.	1.7	11
932	Degradation mechanism and modeling study on reversible solid oxide cell in dual-mode — A review. International lournal of Hydrogen Energy, 2022, 47, 37895-37928.	3.8	69

#	Article	IF	CITATIONS
933	Numerical study on the inhomogeneity of the contact layer between solid oxide electrolysis cell anode and the interconnect. Fuel Cells, 2022, 22, 205-211.	1.5	1
934	Mechanical behavior of YSZ-glass composite seals for solid oxide fuel cell application. Ceramics International, 2022, , .	2.3	2
935	Dislocation-Mediated Oxygen–Ionic Conductivity in Yttria-Stabilized Zirconia. ACS Nano, 2022, 16, 16655-16667.	7.3	2
936	Intermediate-Temperature Proton Exchange Membranes Based on Cerium Ultraphosphate Composited with Polybenzimidazole. Journal of the Electrochemical Society, 2022, 169, 094505.	1.3	1
937	Synthesis and Properties of the Gallium-Containing Ruddlesden-Popper Oxides with High-Entropy B-Site Arrangement. Materials, 2022, 15, 6500.	1.3	4
938	Features of Glycol-Citrate Synthesis of Highly Dispersed Oxide La0.6Sr0.4Co0.2Fe0.8O3 – δ. Russian Journal of Inorganic Chemistry, 2022, 67, 1495-1502.	0.3	2
939	Modulating the Energy Band Structure of the Mg-Doped Sr _{0.5} Pr _{0.5} Fe _{0.2} Mg _{0.2} Ti _{0.6} O _{3â^îî} Electrolyte with Boosted Ionic Conductivity and Electrochemical Performance for Solid Oxide Fuel Cells. ACS Applied Materials & Amp; Interfaces, 2022, 14, 43067-43084.	4.0	24
940	Oxidation and electrical behavior of Ni-Mn3O4-La2O3-coated SOFC interconnect steel. Ionics, 2022, 28, 5525-5537.	1.2	2
941	Effect of TiO2 as an additive on the sintering performance of Sm-doped CeO2-based electrolyte for solid oxide fuel cells. Frontiers in Chemistry, 0, 10, .	1.8	1
942	Mn diffusion in the ferritic Fe-25Â%Cr Alloy: A First-principles study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 286, 116042.	1.7	4
943	How Would Solid Oxide Fuel Cells and Bioethanol Impact in Electric Mobility Transition?. Biofuel and Biorefinery Technologies, 2022, , 385-429.	0.1	0
944	A catalyst support for direct-ammonia solid-oxide fuel cell anodes based on lanthanum titanium oxynitride. Journal of Materials Chemistry A, 2022, 10, 24115-24126.	5.2	3
945	Structural and Electrical Properties of Gd Doped CeO ₂ (GDC) Nanoceramics for Solid Oxide Fuel Cell Applications. Transactions of the Indian Ceramic Society, 2022, 81, 127-132.	0.4	7
946	Composite electrolyte with Ruddlesden-Popper structure Sm1.2Sr0.8Ni0.6Fe0.4O4+δ for high-performance low temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2023, 48, 268-279.	3.8	4
947	Effect of Intrinsic and Extrinsic Oxygen Vacancies on the Conductivity of Gd-Doped CeO ₂ Synthesized by a Sonochemical Route. Journal of Physical Chemistry C, 2022, 126, 18018-18028.	1.5	7
948	Optimized Solid-State Synthesis of Sr2Fe1.5Mo0.5O6â ^{~1} Î [^] Perovskite: Implications for Efficient Synthesis of Mo-Containing SOFC Electrodes. Crystals, 2022, 12, 1533.	1.0	2
949	Technologies for sustainable heat generation in food processing. Comprehensive Reviews in Food Science and Food Safety, 0, , .	5.9	1
950	Proton-conducting barium stannate for high-temperature purposes: A brief review. Journal of the European Ceramic Society, 2023, 43, 198-207.	2.8	15

#	Article	IF	CITATIONS
951	Sodium-Doped Samarium Oxide Electrolytes for Avoiding the Lithiation-Induced Interface Degradation of Ni _{0.8} Co _{0.15} Al _{0.05} LiO ₂ Electrode-Based Ceramic Fuel Cells. ACS Applied Energy Materials, 2022, 5, 13895-13902.	2.5	2
952	Structure and Spectral Luminescence Properties of (ZrO2)0.909(Y2O3)0.09(Eu2O3)0.001 Ceramics Synthesized by Uniaxial Compaction and Slip Casting. Materials, 2022, 15, 7722.	1.3	2
953	Microstructure and diffusion behavior of Co-Ni-W conversion coating for metallic interconnect of solid oxide fuel cell. Materials Characterization, 2022, 194, 112378.	1.9	3
954	Recent progress in calcium looping integrated with chemical looping combustion (CaL-CLC) using bifunctional CaO/CuO composites for CO2 capture: A state-of-the-art review. Fuel, 2023, 334, 126630.	3.4	18
955	Investigation on high entropy alloys as interconnect material for intermediate temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2023, 935, 168000.	2.8	5
956	Controlled synthesis of Bi ₂ 0 ₃ –YSZ composite powders and their sintering behavior for highâ€performance electrolytes. International Journal of Applied Ceramic Technology, 2023, 20, 1398-1407.	1.1	2
957	Performance of CoMnO Spinel Coating onto 441 SS for SOEC Interconnect Application. Coatings, 2022, 12, 1723.	1.2	1
958	Long- and short-range orders in 10-component compositionally complex ceramics. , 2023, 2, 100098.		3
959	Effects of Ceria on the Oxygen Reduction Activity and Thermal Cycling Stability of BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O _{3â^î} Cathode for Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2022, 5, 14391-14400.	2.5	4
960	Bulk Solid-State Polyantimonic-Acid-Based Proton-Conducting Membranes. Refractories and Industrial Ceramics, 2022, 63, 90-95.	0.2	2
961	Phase Composition and Mechanical Properties of Sm2O3 Partially Stabilized Zirconia Crystals. Crystals, 2022, 12, 1630.	1.0	2
962	The synthesis of Eu–Tb–Ho co–doped Bi2O3–based ceramic powders for use in intermediate temperature–SOFCs. Solid State Ionics, 2022, 387, 116060.	1.3	4
963	On the Technology of Solid Oxide Fuel Cell (SOFC) Energy Systems for Stationary Power Generation: A Review. Sustainability, 2022, 14, 15276.	1.6	37
964	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg" display="inline" id="d1e252"> <mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^²</mml:mo><mml:mi>Î/</mml:mi></mml:mrow></mml:mrow </mml:msub> thin films on LaAlO3: An X-ray reciprocal space mapping study. Journal of Physics and Chemistry of	• < 1.9 /mml:ma	ath>
965	Solids, 2023, 173, 111104. A lattice Boltzmann analysis of the performance and mass transport of a solid oxide fuel cell with a partially obstructed anode flow channel. Fuel, 2023, 334, 126537.	3.4	6
966	Liquid biofuels for solid oxide fuel cells: A review. Journal of Power Sources, 2023, 556, 232437.	4.0	12
967	Recycling and characterization of end-of-life solid oxide fuel/electrolyzer ceramic material cell components. Resources, Conservation and Recycling, 2023, 190, 106809.	5.3	3
968	Pulsed laser 3D-micro/nanostructuring of materials for electrochemical energy storage and conversion. Progress in Materials Science, 2023, 133, 101052.	16.0	13

#	Article	IF	CITATIONS
969	Preparation and characterization of Ta and monovalent alkali metals (Li, Na, K) co-doping on Sr11Mo4O23 electrolyte for solid oxide fuel cells. Journal of Alloys and Compounds, 2023, 938, 168482.	2.8	0
970	Temperature-driven order–disorder structural transition in the oxygen sub-lattice and the complex superstructure of the high-temperature polymorph of CaSrZn ₂ CaS	1.6	0
971	Recent Developments on Solid Oxide Fuel Cells Using Methane and other Related Hydrocarbons. , 2022, , .		0
972	Progress in Misfit Ca-Cobaltite Electrodes for Solid Oxide Electrochemical Cells. , 2022, , 1-34.		0
973	Preparation and performance of a nano-honeycomb cathode for microtubular solid oxide fuel cells. International Journal of Hydrogen Energy, 2022, , .	3.8	4
974	Synthesis and Characterization of Ceria- and Samaria-Based Powders and Solid Electrolytes as Promising Components of Solid Oxide Fuel Cells. Ceramics, 2022, 5, 1102-1114.	1.0	Ο
975	Fuel Cells and Hydrogen Production. , 2022, , 161-192.		1
976	High-entropy approach to double perovskite cathode materials for solid oxide fuel cells: Is multicomponent occupancy in (La,Pr,Nd,Sm,Gd)BaCo2O5+δaffecting physicochemical and electrocatalytic properties?. Frontiers in Energy Research, 0, 10, .	1.2	6
977	Process parameters and their effect on the structure and morphology of gadolinium-doped ceria. Materials Today: Proceedings, 2023, 80, 937-941.	0.9	1
978	Near-Zero Thermal Expansion and High Heat-Resistance Polyimide Films Based on a Symmetric and Rigid Pyrazine Structure. ACS Applied Polymer Materials, 2023, 5, 672-679.	2.0	3
979	Progress in nanomaterials fabrication and their prospects in artificial intelligence towards solid oxide fuel cells: A review. International Journal of Hydrogen Energy, 2024, 52, 216-247.	3.8	7
980	Effects of electrospraying parameters on deposition of La _{0.3} Sr _{0.7} Fe _{0.7} Cr _{0.3} O _{3â^'} <i>_δ</i> cathode layer on GDC. International Journal of Applied Ceramic Technology, 2023, 20, 1512-1525.	9 1.1	0
981	Ta-doped PrBaFe2O5+δ double perovskite as a high-performance electrode material for symmetrical solid oxide fuel cells. International Journal of Hydrogen Energy, 2023, 48, 9812-9822.	3.8	12
982	F-doped LiNi0.8Co0.15Al0.05O2-Î′ cathodes with enhanced ORR catalytic activity for LT-SOFCs. Journal of Alloys and Compounds, 2023, 940, 168837.	2.8	3
983	Evaluation on the waste heat recovery potential of thermoacoustically-driven cryocoolers for solid oxide fuel cells. Chemical Engineering Research and Design, 2023, 170, 771-782.	2.7	7
984	A novel ReaxFF multi-scale method for analyzing the fracture behavior of the CeO2. Computational Materials Science, 2023, 219, 112002.	1.4	3
985	Tailoring dual redox pairs strategy on a defective spinel Mg0.4NixMn2.6â^'xO4+δ cathode for the boosting of SOFCs performance. Journal of Alloys and Compounds, 2023, 939, 168625.	2.8	4
986	Inkjet printing of perovskite ceramics for high-performance proton ceramic fuel cells. Energy, 2023, 268, 126489.	4.5	7

#	Article	IF	CITATIONS
987	Impregnation of gadolinium-doped ceria backbone electrodes modified by addition of pore-formers for SOFC application. Journal of Solid State Electrochemistry, 2023, 27, 695-703.	1.2	2
988	Double Paddleâ€Wheel Enhanced Sodium Ion Conduction in an Antiperovskite Solid Electrolyte. Advanced Energy Materials, 2023, 13, .	10.2	11
989	Enhanced Electrocatalytic Activity and Surface Exsolution in PrO _{<i>x</i>} -Substituted Cerium Gadolinium Oxide. ACS Applied Energy Materials, 2023, 6, 657-666.	2.5	3
990	High-density BaCe0.9Y0.1O3â^´î´ obtained by solid-state reaction sintered at 1200 ºC without sintering aid. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	2
991	Resolving Diverse Oxygen Transport Pathways Across Srâ€Doped Lanthanum Ferrite and Metalâ€Perovskite Heterostructures. Advanced Materials Interfaces, 2023, 10, .	1.9	2
992	Electrochemical Performance of SrFeO _{3â^'<i>δ</i>} for Application as a Symmetric Electrode in Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2023, 6, 2049-2062.	2.5	4
993	Rechargeable Oxide Ion Batteries Based on Mixed Conducting Oxide Electrodes. Advanced Energy Materials, 2023, 13, .	10.2	5
994	The influence of sintering condition on microstructure, phase composition, and electrochemical performance of the scandia-ceria-Co-doped zirconia for SOFCs. Science of Sintering, 2023, , 9-9.	0.5	0
995	A study of the microstructure and thermo–electrical properties of Bi2O3 ceramics co–doped with rare earth oxides. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	4
996	One-pot impregnation to construct nanoparticles loaded scaffold cathode with enhanced oxygen reduction performance for LT-SOFCs. Journal of Alloys and Compounds, 2023, 941, 168981.	2.8	2
997	Integration of solid oxide fuel cells with solar energy systems: A review. Applied Thermal Engineering, 2023, 224, 120117.	3.0	27
998	Coordination chemistry in modulating electronic structures of perovskite-type oxide nanocrystals for oxygen evolution catalysis. Coordination Chemistry Reviews, 2023, 485, 215109.	9.5	10
999	Interfacial effect on the polarization resistance of SrM0.1Mo0.9O3- (MÂ=ÂMg2+, Fe3+)/GDC-based composite electrodes. Solid State Ionics, 2023, 394, 116193.	1.3	1
1000	Surface engineered homo-structure enabling the fast ionic conduction for ceramic fuel cells. Journal of Alloys and Compounds, 2023, 946, 169360.	2.8	4
1001	Perspective and control of cation interdiffusion and interface reactions in solid oxide fuel cells (SOFCs). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 292, 116415.	1.7	10
1002	Emerging trends of electrocatalytic technologies for renewable hydrogen energy from seawater: Recent advances, challenges, and techno-feasible assessment. Journal of Energy Chemistry, 2023, 80, 658-688.	7.1	20
1003	Oxygen non-stoichiometry and mixed conductivity of Ti -doped BaCo0.4Fe0.4Y0.2O3- perovskite. Solid State Ionics, 2023, 395, 116203.	1.3	1
1004	Nanosecond pulsed laser surface modification of yttria doped zirconia for Solid Oxide Fuel Cell applications: Damage and microstructural changes. Journal of the European Ceramic Society, 2023, 43, 3396-3403	2.8	5

#	Article	IF	CITATIONS
1005	An absorber of parabolic trough collector for hydrogen production in a solid oxide fuel cell. Fuel, 2023, 343, 127982.	3.4	2
1006	Enhanced proton conductivity and CO2-tolerance of intermediate-temperature protonic ceramic fuel cell with lanthanum tungstate-based composite cathode. Composites Part B: Engineering, 2023, 253, 110565.	5.9	10
1007	Oxidation inhibition of 3D printed porous steel by ceria-activated multilayers. Corrosion Science, 2023, 214, 111010.	3.0	2
1008	Investigation on Long-Term Stability of Vermiculite Seals for Reversible Solid Oxide Cell. Molecules, 2023, 28, 1462.	1.7	2
1009	Simultaneous characterizations of segmented electrochemical characteristics and temperature distribution in the hythane-fueled direct internal reforming solid oxide fuel cell. Chemical Engineering Journal, 2023, 460, 141822.	6.6	1
1010	TiO2 incorporated YSZ thin films for SOFCs: Thermal evolution to the microstructural, topographical and electrochemical properties. Surface and Coatings Technology, 2023, 458, 129318.	2.2	3
1011	Glass–Zirconia Composites as Seals for Solid Oxide Cells: Preparation, Properties, and Stability over Repeated Thermal Cycles. Materials, 2023, 16, 1634.	1.3	1
1012	Boosting the performance and durability of heterogeneous electrodes for solid oxide electrochemical cells utilizing a data-driven powder-to-power framework. Science Bulletin, 2023, 68, 516-527.	4.3	6
1013	Electrophoretic deposition of MnCo2O4 coating on solid oxide cell interconnects manufactured through powder metallurgy. Materials and Design, 2023, 227, 111768.	3.3	5
1014	Synthesis of Hierarchical Layered Quasi-Triangular Ce(OH)CO ₃ and Its Thermal Conversion to Ceria with High Polishing Performance. ACS Omega, 2023, 8, 8519-8529.	1.6	0
1015	Highly Active Interfacial Sites in <scp>SFTâ€5nO₂</scp> Heterojunction Electrolyte for Enhanced Fuel Cell Performance via Engineered Energy Bands: Envisioned Theoretically and Experimentally. Energy and Environmental Materials, 0, , .	7.3	9
1016	Silver and Samaria-Doped Ceria (Ag-SDC) Cermet Cathode for Low-Temperature Solid Oxide Fuel Cells. Nanomaterials, 2023, 13, 886.	1.9	0
1017	Application of nanocomposites in fuel cell. , 2023, , 129-147.		1
1018	Stability of the Structural and Transport Characteristics of (ZrO2)0.99â^'x(Sc2O3)x(R2O3)0.01 (R–Yb, Y,) Tj ET	Qq1 1 0.7	'84314 rgBT
1019	Comparative study on the performance of the application of clean alternative fuels in SOFC/ICE hybrid power systems on electric aircraft. Frontiers in Energy Research, 0, 11, .	1.2	2
1020	Challenges in using perovskite-based anode materials for solid oxide fuel cells with various fuels: a review. International Journal of Hydrogen Energy, 2023, 48, 20441-20464.	3.8	15
1021	Exsolved catalyst particles as a plaything of atmosphere and electrochemistry. , 2023, 1, 274-289.		0
1022	Influencing factors for the migration of zinc ions in metal oxide powders. Journal of Materials Research and Technology, 2023, 24, 1638-1652.	2.6	3

# 1023	ARTICLE Implications of Cation Interdiffusion between Double Perovskite Cathode and Proton-Conducting Electrolyte for Performance of Solid Oxide Fuel Cells. Energies, 2023, 16, 2980.	IF 1.6	CITATIONS
1024	A comparative study of TiO2 doped and undoped yttria stabilized zirconia thin films for solid oxide fuel cell application. Journal of Solid State Electrochemistry, 0, , .	1.2	0
1025	Recent progress in electrolyte-supported solid oxide fuel cells: a review. Journal of the Korean Ceramic Society, 2023, 60, 614-636.	1.1	17
1026	The formation of spinel CuxMn3-xO4 at 750°C in the designed CuMn layers for solid oxide fuel cell applications. Surface and Coatings Technology, 2023, 464, 129467.	2.2	2
1027	Recent Advances in High-Temperature Steam Electrolysis with Solid Oxide Electrolysers for Green Hydrogen Production. Energies, 2023, 16, 3327.	1.6	17
1028	3D printing of cubic zirconia lattice supports for hydrogen production. Ceramics International, 2023, 49, 22529-22536.	2.3	0
1029	Development of titanium-doped SmBaMn2O5+δlayered perovskite as a robust electrode for symmetrical solid oxide fuel cells. International Journal of Hydrogen Energy, 2023, 48, 28119-28130.	3.8	4
1030	La2Ce2O7 based materials for next generation proton conducting solid oxide cells: Progress, opportunity and future prospects. International Journal of Hydrogen Energy, 2023, 48, 28460-28501.	3.8	7
1036	Emerging Trends in Solid Oxide Electrolysis Cells. Lecture Notes in Energy, 2023, , 313-382.	0.2	1
1041	Perovskites for fuel cell applications. , 2023, , 395-418.		0
1051	Hydrogen Fuel Cell Hybrid Technology in Aviation: An Overview. Lecture Notes in Mechanical Engineering, 2023, , 803-821.	0.3	1
1063	Solid oxide electrolysis cells – current material development and industrial application. Journal of Materials Chemistry A, 2023, 11, 17977-18028.	5.2	16
1067	Perovskite Manganite Materials: Recent Advancements and Challenges as Cathode for Solid Oxide Fuel CellÂApplications. Materials Horizons, 2023, , 163-183.	0.3	1
1071	Specific applications of the lanthanides. , 2023, , 649-741.		0
1083	Exploring the potential of triple conducting perovskite cathodes for high-performance solid oxide fuel cells: a comprehensive review. Journal of Materials Chemistry A, 2023, 11, 23613-23639.	5.2	3
1095	Materials and wetting issues in molten carbonate fuel cell technology: a review. Journal of Materials Science, 2023, 58, 15936-15972.	1.7	0
1124	Study of material characterization of samarium doped ceria-rice husk ash silica (SDC-RHASiO2). AIP Conference Proceedings, 2024, , .	0.3	0
1141	Preparation and Performance of Solid Oxide Fuel Cell Connector. Lecture Notes in Electrical Engineering, 2024, , 127-137.	0.3	Ο

ARTICLE

IF CITATIONS