

Ellen Ivers-TiffÃ©e

List of Publications by Year in descending order

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174
papers

8,259
citations

44069

48
h-index

53230

85
g-index

176
all docs

176
docs citations

176
times ranked

6051
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials and technologies for SOFC-components. Journal of the European Ceramic Society, 2001, 21, 1805-1811.	5.7	466
2	Materials and concepts for solid oxide fuel cells (SOFCs) in stationary and mobile applications. Journal of Power Sources, 2004, 127, 273-283.	7.8	390
3	Studies on LiFePO ₄ as cathode material using impedance spectroscopy. Journal of Power Sources, 2011, 196, 5342-5348.	7.8	319
4	Electronic Structure, Defect Chemistry, and Transport Properties of SrTi _{1-x} Fe _x O _{3-y} Solid Solutions. Chemistry of Materials, 2006, 18, 3651-3659.	6.7	220
5	Evaluation of electrochemical impedance spectra by the distribution of relaxation times. Journal of the Ceramic Society of Japan, 2017, 125, 193-201.	1.1	199
6	High temperature oxygen sensors based on doped SrTiO ₃ . Sensors and Actuators B: Chemical, 1999, 59, 184-189.	7.8	197
7	Oxidation of H ₂ , CO and methane in SOFCs with Ni/YSZ-cermet anodes. Solid State Ionics, 2002, 152-153, 543-550.	2.7	186
8	Electrochemical characterization and post-mortem analysis of aged LiMn ₂ O ₄ ∕Li(Ni _{0.5} Mn _{0.3} Co _{0.2})O ₂ /graphite lithium ion batteries. Part I: Cycle aging. Journal of Power Sources, 2014, 251, 439-450.	7.8	177
9	Measurement of the internal cell temperature via impedance: Evaluation and application of a new method. Journal of Power Sources, 2013, 243, 110-117.	7.8	159
10	SOFC Modeling and Parameter Identification by Means of Impedance Spectroscopy. ECS Transactions, 2009, 19, 81-109.	0.5	157
11	Reconstruction of porous electrodes by FIB/SEM for detailed microstructure modeling. Journal of Power Sources, 2011, 196, 7302-7307.	7.8	154
12	Formation and migration of cation defects in the perovskite oxide LaMnO ₃ . Journal of Materials Chemistry, 1999, 9, 1621-1627.	6.7	144
13	The distribution of relaxation times as basis for generalized time-domain models for Li-ion batteries. Journal of Power Sources, 2013, 221, 70-77.	7.8	138
14	Electrochemical characterization and post-mortem analysis of aged LiMn ₂ O ₄ ∕NMC/graphite lithium ion batteries part II: Calendar aging. Journal of Power Sources, 2014, 258, 61-75.	7.8	138
15	Understanding the impedance spectrum of 18650 LiFePO ₄ -cells. Journal of Power Sources, 2013, 239, 670-679.	7.8	136
16	Model anodes and anode models for understanding the mechanism of hydrogen oxidation in solid oxide fuel cells. Physical Chemistry Chemical Physics, 2010, 12, 13888.	2.8	133
17	Three-dimensional reconstruction of a composite cathode for lithium-ion cells. Electrochemistry Communications, 2011, 13, 166-168.	4.7	132
18	Advanced impedance study of polymer electrolyte membrane single cells by means of distribution of relaxation times. Journal of Power Sources, 2018, 402, 24-33.	7.8	123

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19	Oxygen reduction mechanism at porous $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ cathodes/ $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{2.8}$ electrolyte interface for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2001, 46, 1837-1845.	5.2	121
20	Quantitative Characterization of LiFePO_4 Cathodes Reconstructed by FIB/SEM Tomography. <i>Journal of the Electrochemical Society</i> , 2012, 159, A972-A980.	2.9	110
21	Correlation between microstructure and degradation in conductivity for cubic Y_2O_3 -doped ZrO_2 . <i>Solid State Ionics</i> , 2006, 177, 3275-3284.	2.7	106
22	How the distribution of relaxation times enhances complex equivalent circuit models for fuel cells. <i>Electrochimica Acta</i> , 2020, 355, 136764.	5.2	103
23	Temperature-independent resistive oxygen sensors based on $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_3$ solid solutions. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 223-230.	7.8	102
24	Nanoscaled $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ as intermediate temperature solid oxide fuel cell cathode: Microstructure and electrochemical performance. <i>Journal of Power Sources</i> , 2011, 196, 7263-7270.	7.8	101
25	Modeling graphite anodes with serial and transmission line models. <i>Journal of Power Sources</i> , 2015, 282, 335-347.	7.8	100
26	Analysis of Three-Electrode Setups for AC-Impedance Measurements on Lithium-Ion Cells by FEM simulations. <i>Journal of the Electrochemical Society</i> , 2011, 159, A128-A136.	2.9	94
27	Impedance based time-domain modeling of lithium-ion batteries: Part I. <i>Journal of Power Sources</i> , 2018, 379, 317-327.	7.8	94
28	Electrochemical Analysis of Reformate-Fuelled Anode Supported SOFC. <i>Journal of the Electrochemical Society</i> , 2011, 158, B980.	2.9	90
29	Grain Size Effects in YSZ Thin Film Electrolytes. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2017-2024.	3.8	83
30	Thermal stability of the cubic phase in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ (BSCF)1. <i>Solid State Ionics</i> , 2011, 197, 25-31.	2.7	81
31	Electrochemical Modeling of the Current-Voltage Characteristics of an SOFC in Fuel Cell and Electrolyzer Operation Modes. <i>Journal of the Electrochemical Society</i> , 2013, 160, F313-F323.	2.9	79
32	Representative volume element size for accurate solid oxide fuel cell cathode reconstructions from focused ion beam tomography data. <i>Electrochimica Acta</i> , 2012, 82, 268-276.	5.2	75
33	3D finite element model for reconstructed mixed-conducting cathodes: I. Performance quantification. <i>Electrochimica Acta</i> , 2012, 77, 315-323.	5.2	75
34	Hetero-Interfaces at Nanoscaled $(\text{La},\text{Sr})\text{CoO}_3$ Thin-Film Cathodes Enhancing Oxygen Surface-Exchange Properties. <i>Journal of the Electrochemical Society</i> , 2013, 160, F351-F359.	2.9	75
35	Practical Guidelines for Reliable Electrochemical Characterization of Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2017, 227, 110-126.	5.2	72
36	The chemical oxygen surface exchange and bulk diffusion coefficient determined by impedance spectroscopy of porous $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$ (LSCF) cathodes. <i>Solid State Ionics</i> , 2015, 269, 67-79.	2.7	70

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37	Microstructure of Nanoscaled $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2011, 1, 249-258.	19.5	69
38	Analysis and prediction of the open circuit potential of lithium-ion cells. <i>Journal of Power Sources</i> , 2013, 239, 696-704.	7.8	69
39	Quantification of double-layer Ni/YSZ fuel cell anodes from focused ion beam tomography data. <i>Journal of Power Sources</i> , 2014, 246, 819-830.	7.8	66
40	Degradation of anode supported cell (ASC) performance by Cr-poisoning. <i>Journal of Power Sources</i> , 2011, 196, 7203-7208.	7.8	64
41	Anode-supported planar SOFC with high performance and redox stability. <i>Electrochemistry Communications</i> , 2010, 12, 1326-1328.	4.7	57
42	Electrochemical performances of solid oxide fuel cells based on Y-substituted SrTiO_3 ceramic anode materials. <i>Journal of Power Sources</i> , 2011, 196, 7308-7312.	7.8	57
43	A novel and precise measuring method for the entropy of lithium-ion cells: \hat{T}^S via electrothermal impedance spectroscopy. <i>Electrochimica Acta</i> , 2014, 137, 311-319.	5.2	56
44	Secondary Phase Formation in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ Studied by Electron Microscopy. <i>Chemistry of Materials</i> , 2013, 25, 564-573.	6.7	54
45	Assessment of all-solid-state lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 393, 119-127.	7.8	54
46	Decomposition pathway of cubic $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ between 700°C and 1000°C analyzed by electron microscopic techniques. <i>Solid State Ionics</i> , 2012, 206, 57-66.	2.7	52
47	Nature and Functionality of $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}/\text{Gd}_{0.2}\text{Ce}_{0.8}\text{O}_{2-\delta}/\text{Y}_{0.16}\text{Zr}_{0.84}\text{O}_{2-\delta}$ Interfaces in SOFCs. <i>Journal of the Electrochemical Society</i> , 2018, 165, F898-F906.	2.9	52
48	Electrode Reaction of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ Cathodes on $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{3-y}$ Electrolyte in Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2001, 148, A456.	2.9	51
49	Oxygen Transport Kinetics of Mixed Ionic-Electronic Conductors by Coupling Focused Ion Beam Tomography and Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2017, 164, F289-F297.	2.9	50
50	Processing and properties of BST thin films for tunable microwave devices. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1735-1739.	5.7	49
51	Investigation of the thermal properties of a Li-ion pouch-cell by electrothermal impedance spectroscopy. <i>Journal of Power Sources</i> , 2011, 196, 8140-8146.	7.8	49
52	Anode microstructures from high-energy and high-power lithium-ion cylindrical cells obtained by X-ray nano-tomography. <i>Journal of Power Sources</i> , 2014, 269, 912-919.	7.8	49
53	Performance simulation of current/voltage-characteristics for SOFC single cell by means of detailed impedance analysis. <i>Journal of Power Sources</i> , 2011, 196, 7343-7346.	7.8	48
54	Impedance modelling of porous electrode structures in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2019, 444, 227279.	7.8	48

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55	Capacity Fade in Lithium-Ion Batteries and Cyclic Aging over Various State-of-Charge Ranges. Sustainability, 2019, 11, 6697.	3.2	48
56	Macroscale modeling of cathode formation in SOFC. Solid State Ionics, 2004, 174, 223-232.	2.7	47
57	3D Electrode Microstructure Reconstruction and Modelling. ECS Transactions, 2009, 25, 1211-1220.	0.5	47
58	Sulfur Poisoning of Anode-Supported SOFCs under Reformate Operation. Fuel Cells, 2013, 13, 487-493.	2.4	47
59	Studying the CO-CO ₂ characteristics of SOFC anodes by means of patterned Ni anodes. Journal of Power Sources, 2011, 196, 7217-7224.	7.8	46
60	Electrochemical Analysis of Sulfur-Poisoning in Anode Supported SOFCs Fuelled with a Model Reformate. Journal of the Electrochemical Society, 2012, 159, B597-B601.	2.9	46
61	Elementary kinetic modeling and experimental validation of electrochemical CO oxidation on Ni/YSZ pattern anodes. Electrochimica Acta, 2012, 59, 573-580.	5.2	45
62	Electrochemical model for SOFC and SOEC mode predicting performance and efficiency. International Journal of Hydrogen Energy, 2014, 39, 20844-20849.	7.1	45
63	Advanced impedance modelling of Ni/8YSZ cermet anodes. Electrochimica Acta, 2018, 265, 736-750.	5.2	43
64	Performance limiting factors in anode-supported cells originating from metallic interconnector design. Journal of Power Sources, 2011, 196, 7209-7216.	7.8	41
65	Interface and grain boundary resistance of a lithium lanthanum titanate (Li _{3-x} La _{2/3} xTiO ₃ , LLTO) solid electrolyte. Journal of Power Sources, 2016, 307, 578-586.	7.8	41
66	Correlative tomography at the cathode/electrolyte interfaces of solid oxide fuel cells. Journal of Power Sources, 2017, 360, 399-408.	7.8	41
67	A novel method for measuring the effective conductivity and the contact resistance of porous electrodes for lithium-ion batteries. Electrochemistry Communications, 2013, 34, 130-133.	4.7	39
68	Anodically formed oxide films on niobium: Microstructural and electrical properties. Journal of the European Ceramic Society, 2009, 29, 1743-1753.	5.7	38
69	Separation of the bulk and grain boundary contributions to the total conductivity of solid lithium-ion conducting electrolytes. Journal of Electroceramics, 2017, 38, 157-167.	2.0	38
70	Advanced impedance model for double-layered solid oxide fuel cell cermet anodes. Journal of Power Sources, 2019, 415, 69-82.	7.8	38
71	Modelling and DC-polarisation of a three dimensional electrode/electrolyte interface. Journal of the European Ceramic Society, 2001, 21, 1813-1816.	5.7	37
72	BSCF epitaxial thin films: Electrical transport and oxygen surface exchange. Solid State Ionics, 2010, 181, 602-608.	2.7	37

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73	Time-Dependent 3D Impedance Model of Mixed-Conducting Solid Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2013, 160, F867-F876.	2.9	37
74	3D-Modelling and Performance Evaluation of Mixed Conducting (MIEC) Cathodes. ECS Transactions, 2007, 7, 2065-2074.	0.5	36
75	Improved Phase Stability and CO ₂ Poisoning Robustness of Y-Doped Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} SOFC Cathodes at Intermediate Temperatures. ACS Applied Energy Materials, 2018, 1, 1316-1327.	5.1	36
76	Gd _{0.2} Ce _{0.8} O ₂ Diffusion Barrier Layer between (La _{0.58} Sr _{0.4})(Co _{0.2} Fe _{0.8})O _{3-δ} Cathode and Y _{0.16} Zr _{0.84} O ₂ Electrolyte for Solid Oxide Fuel Cells: Effect of Barrier Layer Sintering Temperature on Microstructure. ACS Applied Energy Materials, 2018, 1, 6790-6800.	5.1	36
77	The Distribution of Relaxation Times as Beneficial Tool for Equivalent Circuit Modeling of Fuel Cells and Batteries. ECS Transactions, 2012, 41, 25-33.	0.5	34
78	Electrochemical impedance modeling of gas transport and reforming kinetics in reformato fueled solid oxide fuel cell anodes. Electrochimica Acta, 2013, 106, 418-424.	5.2	33
79	Oxygen equilibration kinetics of mixed-conducting perovskites BSCF, LSCF, and PSCF at 900 Å°C determined by electrical conductivity relaxation. Solid State Ionics, 2015, 283, 30-37.	2.7	32
80	Stability at La _{0.6} Sr _{0.4} CoO _{3-δ} cathode/La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O _{2.8} electrolyte interface under current flow for solid oxide fuel cells. Solid State Ionics, 2000, 133, 143-152.	2.7	30
81	Performance analysis of mixed ionic-electronic conducting cathodes in anode supported cells. Journal of Power Sources, 2011, 196, 7257-7262.	7.8	30
82	Degradation of a High Performance SOFC Cathode by Cr Poisoning at OCV Conditions. Fuel Cells, 2013, 13, 506-510.	2.4	30
83	A novel and fast method of characterizing the self-discharge behavior of lithium-ion cells using a pulse-measurement technique. Journal of Power Sources, 2015, 274, 1231-1238.	7.8	29
84	A Model-Based Interpretation of the Influence of Anode Surface Chemistry on Solid Oxide Fuel Cell Electrochemical Impedance Spectra. Journal of the Electrochemical Society, 2012, 159, F255-F266.	2.9	28
85	3D finite element model for reconstructed mixed-conducting cathodes: II. Parameter sensitivity analysis. Electrochimica Acta, 2012, 77, 309-314.	5.2	28
86	Stationary FEM Model for Performance Evaluation of Planar Solid Oxide Fuel Cells Connected by Metal Interconnectors. Journal of the Electrochemical Society, 2014, 161, F778-F788.	2.9	28
87	Microstructure stability studies of Ni patterned anodes for SOFC. Solid State Ionics, 2011, 192, 565-570.	2.7	27
88	Testing and model-aided analysis of a 2kWel PEMFC CHP-system. Journal of Power Sources, 2005, 145, 327-335.	7.8	26
89	Studies on LiFePO ₄ as Cathode Material in Li-Ion Batteries. ECS Transactions, 2010, 28, 3-17.	0.5	26
90	Detailed Microstructure Analysis and 3D Simulations of Porous Electrodes. ECS Transactions, 2011, 35, 2357-2368.	0.5	25

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91	Reducing Impedance at a Li-Metal Anode/Garnet-Type Electrolyte Interface Implementing Chemically Resolvable In Layers. ACS Applied Materials & Interfaces, 2022, 14, 14739-14752.	8.0	24
92	Interaction between Microstructure and Electrical Properties of Screen Printed Cathodes in SOFC Single Cells. Electrochemistry, 1996, 64, 582-589.	0.3	22
93	Investigation of BZT thin films for tunable microwave applications. Journal of the European Ceramic Society, 2005, 25, 2289-2293.	5.7	22
94	Enhancement of oxygen surface exchange kinetics of SrTiO ₃ by alkaline earth metal oxides. Physical Chemistry Chemical Physics, 2005, 7, 3523.	2.8	22
95	Evaluation and Modelling of the Cell Resistance in Anode Supported Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 521-531.	0.5	21
96	Microstructure of Nanocrystalline Yttria-Doped Zirconia Thin Films Obtained by Sol-Gel Processing. Journal of the American Ceramic Society, 2008, 91, 2281-2289.	3.8	21
97	Evaluation of the Rate Determining Processes for LiFePO ₄ as Cathode Material in Lithium-Ion-Batteries. ECS Transactions, 2011, 33, 3-15.	0.5	21
98	Dielectric properties and tunability of BST and BZT thick films for microwave applications. Integrated Ferroelectrics, 2001, 39, 383-392.	0.7	20
99	Annealing Effects on Structural and Dielectric Properties of Tunable BZT Thin Films. Journal of Electroceramics, 2004, 13, 229-233.	2.0	20
100	High-Performance Cathode/Electrolyte Interfaces for SOFC. ECS Transactions, 2015, 68, 763-771.	0.5	20
101	The impact of grain size, A/B-cation ratio, and Y-doping on secondary phase formation in (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O _{3-δ} . Journal of Materials Science, 2017, 52, 2705-2719.	3.7	19
102	Nonlinear ceramics for tunable microwave devices part I: materials properties and processing. Microsystem Technologies, 2011, 17, 203-211.	2.0	18
103	Pulse-fitting – A novel method for the evaluation of pulse measurements, demonstrated for the low frequency behavior of lithium-ion cells. Journal of Power Sources, 2016, 315, 316-323.	7.8	18
104	Yttrium doping of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} part II: Influence on oxygen transport and phase stability. Journal of the European Ceramic Society, 2018, 38, 2388-2395.	5.7	18
105	Experimental and Modeling Study of the Impedance of Ni/YSZ Cermet Anodes. ECS Transactions, 2007, 7, 1573-1582.	0.5	17
106	Accelerated Lifetime Tests for SOFCs. ECS Transactions, 2015, 68, 1953-1960.	0.5	17
107	Accelerated Life Tests for Fuel Cells. ECS Transactions, 2006, 1, 377-384.	0.5	15
108	Yttrium doping of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} part I: Influence on oxygen permeation, electrical properties, reductive stability, and lattice parameters. Journal of the European Ceramic Society, 2018, 38, 2378-2387.	5.7	15

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109	Electrode Reconstruction by FIB/SEM and Microstructure Modeling. ECS Transactions, 2010, 28, 81-91.	0.5	14
110	Understanding Deviations between Spatially Resolved and Homogenized Cathode Models of Lithium-ion Batteries. Energy Technology, 2021, 9, 2000881.	3.8	14
111	Study of the oxygen incorporation and diffusion in Sr(Ti _{0.65} Fe _{0.35})O ₃ ceramics. Solid State Ionics, 2011, 192, 9-11.	2.7	13
112	The effect of Ba-site Y substitution on cubic phase stabilization in (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O _{3-δ} . Journal of the American Ceramic Society, 2019, 102, 4929-4942.	3.8	13
113	Virtual Electrode Design for Lithium-ion Battery Cathodes. Energy Technology, 2021, 9, 2000891.	3.8	13
114	A 0-Dimensional Stationary Model for Anode-Supported Solid Oxide Fuel Cells. ECS Transactions, 2010, 28, 341-346.	0.5	12
115	Electrochemical Oxidation at SOFC Anodes: Comparison of Patterned Nickel Anodes and Nickel/8YSZ Cermet Anodes. ECS Transactions, 2011, 35, 1669-1682.	0.5	12
116	Characterization of oxygen-dependent stability of selected mixed-conducting perovskite oxides. Solid State Ionics, 2015, 273, 41-45.	2.7	11
117	Electrode Polarizations. , 2003, , 229-260.		10
118	Model-Aided Testing of a PEMFC CHP System. Fuel Cells, 2007, 7, 70-77.	2.4	10
119	Internal Reforming Kinetics in SOFC-Anodes. ECS Transactions, 2010, 28, 205-215.	0.5	10
120	Electrochemical Analysis of Biogas Fueled Anode Supported SOFC. ECS Transactions, 2011, 35, 2961-2968.	0.5	10
121	Towards Understanding the Impedance Response of Ni/YSZ Anodes. ECS Transactions, 2007, 7, 1363-1372.	0.5	9
122	Long-Term Study of MIEC Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. ECS Transactions, 2009, 25, 2381-2390.	0.5	9
123	Current-Voltage and Temperature Characteristics of Anode Supported Solid Oxide Electrolyzer Cells (SOEC). ECS Transactions, 2012, 45, 523-530.	0.5	9
124	Electrochemical Analysis of Sulphur-Poisoning in Anode-Supported SOFCs under Reformate Operation. ECS Transactions, 2012, 41, 161-169.	0.5	9
125	Three-Dimensional Performance Model for Oxygen Transport Membranes. Journal of the Electrochemical Society, 2014, 161, F1409-F1415.	2.9	9
126	A multi scale multi domain model for large format lithium-ion batteries. Electrochimica Acta, 2021, 393, 139046.	5.2	9

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127	Granular nanocrystalline zirconia electrolyte layers deposited on porous SOFC cathode substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 164, 60-64.	3.5	8
128	Electrochemical Performance of Nanoscaled $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ as Intermediate Temperature SOFC Cathode. <i>ECS Transactions</i> , 2010, 28, 3-15.	0.5	8
129	Nano-Structuring of SOFC Anodes by Reverse Current Treatment. <i>ECS Transactions</i> , 2012, 45, 241-249.	0.5	8
130	SOFC Anode Fabricated by Magnetically Aligning of Ni Particles. <i>ECS Transactions</i> , 2013, 57, 1307-1311.	0.5	8
131	High-Resolution Studies on Nanoscaled Ni/YSZ Anodes. <i>Chemistry of Materials</i> , 2017, 29, 5113-5123.	6.7	8
132	Charge Transfer Parameters of $\text{Ni}_{1-x}\text{Mn}_y\text{Co}_{1-x-y}$ Cathodes Evaluated by a Transmission Line Modeling Approach. <i>Energy Technology</i> , 2021, 9, 2000866.	3.8	8
133	Influence of High Current Cycling on the Performance of SOFC Single Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2012, 9, .	0.8	7
134	Influence of B-site doping with Ti and Nb on microstructure and phase constitution of $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$. <i>Journal of Materials Science</i> , 2020, 55, 947-966.	3.7	7
135	$\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ for Oxygen Separation Membranes. <i>ECS Transactions</i> , 2010, 28, 309-314.	0.5	6
136	Degradation of Solid Oxide Fuel Cell Performance by Cr-Poisoning. <i>ECS Transactions</i> , 2011, 35, 2009-2017.	0.5	6
137	Detailed Electrochemical Analysis of High-Performance Nanoscaled $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ Thin Film Cathodes. <i>ECS Transactions</i> , 2011, 35, 2261-2273.	0.5	6
138	A 2D Stationary FEM Model for Hydrocarbon Fuelled SOFC Stack Layers. <i>ECS Transactions</i> , 2015, 68, 2151-2158.	0.5	6
139	A Non-Isothermal 2D Stationary FEM Model for Hydrocarbon Fueled SOFCs Stack Layers. <i>ECS Transactions</i> , 2017, 78, 2673-2682.	0.5	6
140	Multi-scale characterization of ceramic inert-substrate-supported and co-sintered solid oxide fuel cells. <i>Journal of Materials Science</i> , 2020, 55, 11120-11136.	3.7	6
141	Degradation Effects of Ni Patterned Anodes in $\text{H}_2/\text{H}_2\text{O}$ Atmosphere. <i>ECS Transactions</i> , 2009, 25, 2013-2021.	0.5	5
142	Hydrogen-Oxidation Kinetics in Reformate-Fuelled Anode Supported SOFC. <i>ECS Transactions</i> , 2011, 35, 665-678.	0.5	5
143	pO_2 stability of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1309, 107.	0.1	5
144	Performance Analysis and Development Strategies for Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2011, 35, 1965-1973.	0.5	5

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145	Transient 3D FEM Impedance-Model for Mixed Conducting Cathodes. ECS Transactions, 2012, 45, 313-325.	0.5	5
146	Enhancing SOFC-Stack Performance by Model-Based Adaptation of Cathode Gas Transport Conditions. ECS Transactions, 2013, 57, 2871-2881.	0.5	5
147	Model Based Interpretation of Coupled Gas Conversion and Diffusion in SOFC-Anodes. ECS Transactions, 2013, 57, 2691-2704.	0.5	5
148	Three-Dimensional Performance Simulation of SOFC Anodes Using FIB-Tomography Reconstructions. ECS Transactions, 2013, 57, 2563-2572.	0.5	5
149	Performance model for large area solid oxide fuel cells. Journal of Power Sources, 2014, 259, 65-75.	7.8	5
150	Correlating Cathode/Electrolyte Interface Characteristics to SOFC Performance. ECS Transactions, 2017, 77, 27-34.	0.5	5
151	Identification of a nonlinear model for the electrical behavior of a solid oxide fuel cell. Journal of Power Sources, 2006, 156, 71-77.	7.8	4
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