

# Ellen Ivers-TiffÃ©e

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6311493/publications.pdf>

Version: 2024-02-01

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	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
2	Understanding Deviations between Spatially Resolved and Homogenized Cathode Models of Lithium-Ion Batteries. Energy Technology, 2021, 9, 2000881.	3.8	14
3	Charge Transfer Parameters of Ni <sub>x</sub> Mn <sub>y</sub> Co <sub>1-x-y</sub> Cathodes Evaluated by a Transmission Line Modeling Approach. Energy Technology, 2021, 9, 2000866.	3.8	8
4	A multi scale multi domain model for large format lithium-ion batteries. Electrochimica Acta, 2021, 393, 139046.	5.2	9
5	Virtual Electrode Design for Lithium-Ion Battery Cathodes. Energy Technology, 2021, 9, 2000891.	3.8	13
6	Influence of B-site doping with Ti and Nb on microstructure and phase constitution of (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> )O <sub>3-<math>\delta</math></sub> . Journal of Materials Science, 2020, 55, 947-966.	3.7	7
7	How the distribution of relaxation times enhances complex equivalent circuit models for fuel cells. Electrochimica Acta, 2020, 355, 136764.	5.2	103
8	Multi-scale characterization of ceramic inert-substrate-supported and co-sintered solid oxide fuel cells. Journal of Materials Science, 2020, 55, 11120-11136.	3.7	6
9	Impedance modelling of porous electrode structures in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2019, 444, 227279.	7.8	48
10	Advanced impedance model for double-layered solid oxide fuel cell cermet anodes. Journal of Power Sources, 2019, 415, 69-82.	7.8	38
11	The effect of B-site Y substitution on cubic phase stabilization in (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> )O <sub>3-<math>\delta</math></sub> . Journal of the American Ceramic Society, 2019, 102, 4929-4942.	3.8	13
12	Capacity Fade in Lithium-Ion Batteries and Cyclic Aging over Various State-of-Charge Ranges. Sustainability, 2019, 11, 6697.	3.2	48
13	Microstructure and Performance Analysis of Solid Oxide Fuel Cells Co-Sintered on Inert Substrates. ECS Transactions, 2019, 91, 501-509.	0.5	1
14	Improved Phase Stability and CO <sub>2</sub> Poisoning Robustness of Y-Doped Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> SOFC Cathodes at Intermediate Temperatures. ACS Applied Energy Materials, 2018, 1, 1316-1327.	5.1	36
15	Impedance based time-domain modeling of lithium-ion batteries: Part I. Journal of Power Sources, 2018, 379, 317-327.	7.8	94
16	Yttrium doping of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> part II: Influence on oxygen transport and phase stability. Journal of the European Ceramic Society, 2018, 38, 2388-2395.	5.7	18
17	Advanced impedance modelling of Ni/8YSZ cermet anodes. Electrochimica Acta, 2018, 265, 736-750.	5.2	43
18	Yttrium doping of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> 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

#	ARTICLE	IF	CITATIONS
19	Gd <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2</sub> Diffusion Barrier Layer between (La <sub>0.58</sub> Sr <sub>0.4</sub> )(Co <sub>0.2</sub> Fe <sub>0.8</sub> )O <sub>3-<math>\delta</math></sub> Cathode and Y <sub>0.16</sub> Zr <sub>0.84</sub> O <sub>2</sub> Electrolyte for Solid Oxide Fuel Cells: Effect of Barrier Layer Sintering Temperature on Microstructure. ACS Applied Energy Materials, 2018, 1, 6799-6800.	5.1	36
20	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
21	Assessment of all-solid-state lithium-ion batteries. Journal of Power Sources, 2018, 393, 119-127.	7.8	54
22	Nature and Functionality of La <sub>0.58</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> /Gd <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2-<math>\delta</math></sub> /Y <sub>0.16</sub> Zr <sub>0.84</sub> O <sub>2-<math>\delta</math></sub> Interfaces in SOFCs. Journal of the Electrochemical Society, 2018, 165, F898-F906.	2.9	52
23	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
24	The impact of grain size, A/B-cation ratio, and Y-doping on secondary phase formation in (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> )O <sub>3-<math>\delta</math></sub> . Journal of Materials Science, 2017, 52, 2705-2719.	3.7	19
25	Correlating Cathode/Electrolyte Interface Characteristics to SOFC Performance. ECS Transactions, 2017, 77, 27-34.	0.5	5
26	High-Resolution Studies on Nanoscaled Ni/YSZ Anodes. Chemistry of Materials, 2017, 29, 5113-5123.	6.7	8
27	Oxygen Transport Kinetics of Mixed Ionic-Electronic Conductors by Coupling Focused Ion Beam Tomography and Electrochemical Impedance Spectroscopy. Journal of the Electrochemical Society, 2017, 164, F289-F297.	2.9	50
28	Practical Guidelines for Reliable Electrochemical Characterization of Solid Oxide Fuel Cells. Electrochimica Acta, 2017, 227, 110-126.	5.2	72
29	Correlative tomography at the cathode/electrolyte interfaces of solid oxide fuel cells. Journal of Power Sources, 2017, 360, 399-408.	7.8	41
30	A Non-Isothermal 2D Stationary FEM Model for Hydrocarbon Fueled SOFCs Stack Layers. ECS Transactions, 2017, 78, 2673-2682.	0.5	6
31	Quantitative Study of LSCF and LSM-YSZ Cathode Microstructure by FIB/SEM Tomography. ECS Transactions, 2017, 78, 861-867.	0.5	3
32	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
33	Pulse-fitting $\epsilon''$ : 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
34	(Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> )O <sub>3-<math>\delta</math></sub> Thin Films Derived by Metal-Organic Deposition: Preparation of Nanoscaled Surface Modifications and Electrochemical Characterization. Journal of the Electrochemical Society, 2016, 163, F302-F307.	2.9	3
35	Interface and grain boundary resistance of a lithium lanthanum titanate (Li <sub>3x</sub> La <sub>2/3</sub> $\delta$ TiO <sub>3</sub> , LLTO) solid electrolyte. Journal of Power Sources, 2016, 307, 578-586.	7.8	41
36	Oxygen equilibration kinetics of mixed-conducting perovskites BSCF, LSCF, and PSCF at 900 $\text{^\circ C}$ determined by electrical conductivity relaxation. Solid State Ionics, 2015, 283, 30-37.	2.7	32

#	ARTICLE	IF	CITATIONS
37	Modeling graphite anodes with serial and transmission line models. Journal of Power Sources, 2015, 282, 335-347.	7.8	100
38	Characterization of oxygen-dependent stability of selected mixed-conducting perovskite oxides. Solid State Ionics, 2015, 273, 41-45.	2.7	11
39	High-Performance Cathode/Electrolyte Interfaces for SOFC. ECS Transactions, 2015, 68, 763-771.	0.5	20
40	Accelerated Lifetime Tests for SOFCs. ECS Transactions, 2015, 68, 1953-1960.	0.5	17
41	Stationary 2D FEM Model Framework for SOFC Stack Performance Prediction. ECS Transactions, 2015, 68, 3043-3050.	0.5	1
42	A 2D Stationary FEM Model for Hydrocarbon Fuelled SOFC Stack Layers. ECS Transactions, 2015, 68, 2151-2158.	0.5	6
43	The chemical oxygen surface exchange and bulk diffusion coefficient determined by impedance spectroscopy of porous $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ (LSCF) cathodes. Solid State Ionics, 2015, 269, 67-79.	2.7	70
44	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
45	Three-Dimensional Performance Model for Oxygen Transport Membranes. Journal of the Electrochemical Society, 2014, 161, F1409-F1415.	2.9	9
46	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
47	Performance model for large area solid oxide fuel cells. Journal of Power Sources, 2014, 259, 65-75.	7.8	5
48	Quantification of double-layer Ni/YSZ fuel cell anodes from focused ion beam tomography data. Journal of Power Sources, 2014, 246, 819-830.	7.8	66
49	Electrochemical model for SOFC and SOEC mode predicting performance and efficiency. International Journal of Hydrogen Energy, 2014, 39, 20844-20849.	7.1	45
50	Anode microstructures from high-energy and high-power lithium-ion cylindrical cells obtained by X-ray nano-tomography. Journal of Power Sources, 2014, 269, 912-919.	7.8	49
51	Performance of MIEC Cathodes in SOFC Stacks Evaluated by Means of FEM Modeling. ECS Transactions, 2014, 61, 191-201.	0.5	3
52	Electrochemical characterization and post-mortem analysis of aged $\text{LiMn}_2\text{O}_4$ - $\text{Li}(\text{Ni}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2})\text{O}_2$ /graphite lithium ion batteries. Part I: Cycle aging. Journal of Power Sources, 2014, 251, 439-450.	7.8	177
53	Electrochemical characterization and post-mortem analysis of aged $\text{LiMn}_2\text{O}_4$ -NMC/graphite lithium ion batteries part II: Calendar aging. Journal of Power Sources, 2014, 258, 61-75.	7.8	138
54	A novel and precise measuring method for the entropy of lithium-ion cells: $\hat{T}^S$ via electrothermal impedance spectroscopy. Electrochimica Acta, 2014, 137, 311-319.	5.2	56

#	ARTICLE	IF	CITATIONS
55	Electrochemical impedance modeling of gas transport and reforming kinetics in reformato fueled solid oxide fuel cell anodes. <i>Electrochimica Acta</i> , 2013, 106, 418-424.	5.2	33
56	Measurement of the internal cell temperature via impedance: Evaluation and application of a new method. <i>Journal of Power Sources</i> , 2013, 243, 110-117.	7.8	159
57	Electrochemistry of Reformato Fueled Ni/8YSZ Anodes for Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2013, 57, 3063-3075.	0.5	4
58	Static Performance Model for ASCs with Different Sizes and Its Experimental Validation. <i>ECS Transactions</i> , 2013, 57, 2849-2856.	0.5	0
59	Enhancing SOFC-Stack Performance by Model-Based Adaptation of Cathode Gas Transport Conditions. <i>ECS Transactions</i> , 2013, 57, 2871-2881.	0.5	5
60	Model Based Interpretation of Coupled Gas Conversion and Diffusion in SOFC-Anodes. <i>ECS Transactions</i> , 2013, 57, 2691-2704.	0.5	5
61	Secondary Phase Formation in Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> Studied by Electron Microscopy. <i>Chemistry of Materials</i> , 2013, 25, 564-573.	6.7	54
62	SOFC Anode Fabricated by Magnetically Aligning of Ni Particles. <i>ECS Transactions</i> , 2013, 57, 1307-1311.	0.5	8
63	Hetero-Interfaces at Nanoscaled (La,Sr)CoO <sub>3-δ</sub> Thin-Film Cathodes Enhancing Oxygen Surface-Exchange Properties. <i>Journal of the Electrochemical Society</i> , 2013, 160, F351-F359.	2.9	75
64	Three-Dimensional Performance Simulation of SOFC Anodes Using FIB-Tomography Reconstructions. <i>ECS Transactions</i> , 2013, 57, 2563-2572.	0.5	5
65	Understanding the impedance spectrum of 18650 LiFePO <sub>4</sub> -cells. <i>Journal of Power Sources</i> , 2013, 239, 670-679.	7.8	136
66	A novel method for measuring the effective conductivity and the contact resistance of porous electrodes for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 34, 130-133.	4.7	39
67	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
68	Time-Dependent 3D Impedance Model of Mixed-Conducting Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, F867-F876.	2.9	37
69	The distribution of relaxation times as basis for generalized time-domain models for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 221, 70-77.	7.8	138
70	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
71	Degradation of a High Performance SOFC Cathode by Cr Poisoning at OCV Conditions. <i>Fuel Cells</i> , 2013, 13, 506-510.	2.4	30
72	Sulfur Poisoning of Anode-Supported SOFCs under Reformato Operation. <i>Fuel Cells</i> , 2013, 13, 487-493.	2.4	47

#	ARTICLE	IF	CITATIONS
73	Electrochemical Studies on Anode Supported Solid Oxide Electrolyzer Cells. ECS Transactions, 2012, 41, 113-122.	0.5	4
74	Beneficial Use of a Virtual Reference Electrode for the Determination of SOC Dependent Half Cell Potentials. ECS Transactions, 2012, 41, 1-8.	0.5	0
75	Current-Voltage and Temperature Characteristics of Anode Supported Solid Oxide Electrolyzer Cells (SOEC). ECS Transactions, 2012, 45, 523-530.	0.5	9
76	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
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	Influence of High Current Cycling on the Performance of SOFC Single Cells. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	7
79	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
80	Quantitative Characterization of $\text{LiFePO}_4$ Cathodes Reconstructed by FIB/SEM Tomography. Journal of the Electrochemical Society, 2012, 159, A972-A980.	2.9	110
81	Electrochemical Analysis of Sulphur-Poisoning in Anode-Supported SOFCs under Reformate Operation. ECS Transactions, 2012, 41, 161-169.	0.5	9
82	Impedance Spectroscopy for High-Temperature Fuel Cells. , 2012, , 439-467.		1
83	Representative volume element size for accurate solid oxide fuel cell cathode reconstructions from focused ion beam tomography data. Electrochimica Acta, 2012, 82, 268-276.	5.2	75
84	Transient 3D FEM Model for Mixed Conducting Cathodes. ECS Meeting Abstracts, 2012, , .	0.0	0
85	Nano-Structuring of SOFC Anodes by Reverse Current Treatment. ECS Transactions, 2012, 45, 241-249.	0.5	8
86	Transient 3D FEM Impedance-Model for Mixed Conducting Cathodes. ECS Transactions, 2012, 45, 313-325.	0.5	5
87	Elementary kinetic modeling and experimental validation of electrochemical CO oxidation on Ni/YSZ pattern anodes. Electrochimica Acta, 2012, 59, 573-580.	5.2	45
88	3D finite element model for reconstructed mixed-conducting cathodes: I. Performance quantification. Electrochimica Acta, 2012, 77, 315-323.	5.2	75
89	3D finite element model for reconstructed mixed-conducting cathodes: II. Parameter sensitivity analysis. Electrochimica Acta, 2012, 77, 309-314.	5.2	28
90	Decomposition pathway of cubic $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ between 700°C and 1000°C analyzed by electron microscopic techniques. Solid State Ionics, 2012, 206, 57-66.	2.7	52

#	ARTICLE	IF	CITATIONS
91	Evaluation of the Rate Determining Processes for $\text{LiFePO}_4$ as Cathode Material in Lithium-Ion-Batteries. ECS Transactions, 2011, 33, 3-15.	0.5	21
92	Analysis of Three-Electrode Setups for AC-Impedance Measurements on Lithium-Ion Cells by FEM simulations. Journal of the Electrochemical Society, 2011, 159, A128-A136.	2.9	94
93	Detailed Microstructure Analysis and 3D Simulations of Porous Electrodes. ECS Transactions, 2011, 35, 2357-2368.	0.5	25
94	Hydrogen-Oxidation Kinetics in Reformate-Fuelled Anode Supported SOFC. ECS Transactions, 2011, 35, 665-678.	0.5	5
95	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. Solid State Ionics, 2011, 197, 25-31.	2.7	81
96	Investigation of the thermal properties of a Li-ion pouch-cell by electrothermal impedance spectroscopy. Journal of Power Sources, 2011, 196, 8140-8146.	7.8	49
97	Electrochemical Analysis of Biogas Fueled Anode Supported SOFC. ECS Transactions, 2011, 35, 2961-2968.	0.5	10
98	Nonlinear ceramics for tunable microwave devices part I: materials properties and processing. Microsystem Technologies, 2011, 17, 203-211.	2.0	18
99	Degradation of anode supported cell (ASC) performance by Cr-poisoning. Journal of Power Sources, 2011, 196, 7203-7208.	7.8	64
100	Studying the $\text{CO}$ and $\text{CO}_2$ characteristics of SOFC anodes by means of patterned Ni anodes. Journal of Power Sources, 2011, 196, 7217-7224.	7.8	46
101	Nanoscaled $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ as intermediate temperature solid oxide fuel cell cathode: Microstructure and electrochemical performance. Journal of Power Sources, 2011, 196, 7263-7270.	7.8	101
102	Microstructure of Nanoscaled $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells. Advanced Energy Materials, 2011, 1, 249-258.	19.5	69
103	Three-dimensional reconstruction of a composite cathode for lithium-ion cells. Electrochemistry Communications, 2011, 13, 166-168.	4.7	132
104	Electrochemical performances of solid oxide fuel cells based on Y-substituted $\text{SrTiO}_3$ ceramic anode materials. Journal of Power Sources, 2011, 196, 7308-7312.	7.8	57
105	Studies on $\text{LiFePO}_4$ as cathode material using impedance spectroscopy. Journal of Power Sources, 2011, 196, 5342-5348.	7.8	319
106	Reconstruction of porous electrodes by FIB/SEM for detailed microstructure modeling. Journal of Power Sources, 2011, 196, 7302-7307.	7.8	154
107	Performance limiting factors in anode-supported cells originating from metallic interconnector design. Journal of Power Sources, 2011, 196, 7209-7216.	7.8	41
108	Performance simulation of current/voltage-characteristics for SOFC single cell by means of detailed impedance analysis. Journal of Power Sources, 2011, 196, 7343-7346.	7.8	48

#	ARTICLE	IF	CITATIONS
109	Performance analysis of mixed ionic–electronic conducting cathodes in anode supported cells. Journal of Power Sources, 2011, 196, 7257-7262.	7.8	30
110	Study of the oxygen incorporation and diffusion in Sr(Ti <sub>0.65</sub> Fe <sub>0.35</sub> )O <sub>3</sub> ceramics. Solid State Ionics, 2011, 192, 9-11.	2.7	13
111	Microstructure stability studies of Ni patterned anodes for SOFC. Solid State Ionics, 2011, 192, 565-570.	2.7	27
112	Elementary Kinetic Numerical Simulation of Electrochemical CO Oxidation on Ni/YSZ Pattern Anodes. ECS Transactions, 2011, 35, 1743-1751.	0.5	3
113	Impedance Studies on Solid Oxide Fuel Cells with Yttrium-Substituted SrTiO <sub>3</sub> Ceramic Anodes. ECS Transactions, 2011, 35, 1421-1433.	0.5	3
114	Degradation of Solid Oxide Fuel Cell Performance by Cr-Poisoning. ECS Transactions, 2011, 35, 2009-2017.	0.5	6
115	<i>in situ</i> O <sub>2</sub> stability of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> . Materials Research Society Symposia Proceedings, 2011, 1309, 107.	0.1	5
116	Electrochemical Analysis of Reformate-Fuelled Anode Supported SOFC. Journal of the Electrochemical Society, 2011, 158, B980.	2.9	90
117	Electrochemical Oxidation at SOFC Anodes: Comparison of Patterned Nickel Anodes and Nickel/8YSZ Cermet Anodes. ECS Transactions, 2011, 35, 1669-1682.	0.5	12
118	Detailed Electrochemical Analysis of High-Performance Nanoscaled La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3-<math>\delta</math></sub> Thin Film Cathodes. ECS Transactions, 2011, 35, 2261-2273.	0.5	6
119	Electrooxidation of Reformate Gases at Model Anodes. ECS Transactions, 2011, 35, 1513-1528.	0.5	4
120	Performance Analysis and Development Strategies for Solid Oxide Fuel Cells. ECS Transactions, 2011, 35, 1965-1973.	0.5	5
121	Anode-supported planar SOFC with high performance and redox stability. Electrochemistry Communications, 2010, 12, 1326-1328.	4.7	57
122	BSCF epitaxial thin films: Electrical transport and oxygen surface exchange. Solid State Ionics, 2010, 181, 602-608.	2.7	37
123	Electrode Reconstruction by FIB/SEM and Microstructure Modeling. ECS Transactions, 2010, 28, 81-91.	0.5	14
124	Internal Reforming Kinetics in SOFC-Anodes. ECS Transactions, 2010, 28, 205-215.	0.5	10
125	Electrochemical Performance of Nanoscaled La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3-<math>\delta</math></sub> as Intermediate Temperature SOFC Cathode. ECS Transactions, 2010, 28, 3-15.	0.5	8
126	Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> for Oxygen Separation Membranes. ECS Transactions, 2010, 28, 309-314.	0.5	6



#	ARTICLE	IF	CITATIONS
127	Oxygen Surface Exchange and Bulk Diffusion Coefficients Evaluated from Porous Mixed Ionic-Electronic Conducting Cathodes. ECS Transactions, 2010, 28, 71-80.	0.5	3
128	Studies on LiFePO <sub>4</sub> as Cathode Material in Li-Ion Batteries. ECS Transactions, 2010, 28, 3-17.	0.5	26
129	Increase of Anode Performance of SOFC by Reverse Current Treatment. ECS Transactions, 2010, 28, 141-150.	0.5	3
130	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
131	A 0-Dimensional Stationary Model for Anode-Supported Solid Oxide Fuel Cells. ECS Transactions, 2010, 28, 341-346.	0.5	12
132	3D Electrode Microstructure Reconstruction and Modelling. ECS Transactions, 2009, 25, 1211-1220.	0.5	47
133	Dynamic Electrochemical Model For SOFC-Stacks. ECS Transactions, 2009, 25, 1331-1340.	0.5	4
134	Recovery of Anode Performance by Reverse Current Treatment. ECS Transactions, 2009, 25, 2049-2056.	0.5	3
135	Impact of Flowfield Design on Solid Oxide Fuel Cell Performance. ECS Transactions, 2009, 25, 815-824.	0.5	4
136	Degradation Effects of Ni Patterned Anodes in H <sub>2</sub> /H <sub>2</sub> O Atmosphere. ECS Transactions, 2009, 25, 2013-2021.	0.5	5
137	Grain Size Effects in YSZ Thin Film Electrolytes. Journal of the American Ceramic Society, 2009, 92, 2017-2024.	3.8	83
138	Granular nanocrystalline zirconia electrolyte layers deposited on porous SOFC cathode substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 164, 60-64.	3.5	8
139	Anodically formed oxide films on niobium: Microstructural and electrical properties. Journal of the European Ceramic Society, 2009, 29, 1743-1753.	5.7	38
140	Long-Term Study of MIEC Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. ECS Transactions, 2009, 25, 2381-2390.	0.5	9
141	SOFC Modeling and Parameter Identification by Means of Impedance Spectroscopy. ECS Transactions, 2009, 19, 81-109.	0.5	157
142	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
143	Towards Understanding the Impedance Response of Ni/YSZ Anodes. ECS Transactions, 2007, 7, 1363-1372.	0.5	9
144	Evaluation and Modelling of the Cell Resistance in Anode Supported Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 521-531.	0.5	21

#	ARTICLE	IF	CITATIONS
145	Coke Formation in Hydrocarbons-Containing Fuel Gas and Effects on SOFC Degradation Phenomena. ECS Transactions, 2007, 7, 1429-1435.	0.5	4
146	Modular Testing and Simulation Environment for Analysis and Optimization of Fuel Cell Systems. ECS Transactions, 2007, 5, 297-308.	0.5	0
147	3D-Modelling and Performance Evaluation of Mixed Conducting (MIEC) Cathodes. ECS Transactions, 2007, 7, 2065-2074.	0.5	36
148	Experimental and Modeling Study of the Impedance of Ni/YSZ Cermet Anodes. ECS Transactions, 2007, 7, 1573-1582.	0.5	17
149	Model-Aided Testing of a PEMFC CHP System. Fuel Cells, 2007, 7, 70-77.	2.4	10
150	Electronic Structure, Defect Chemistry, and Transport Properties of SrTi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3-y</sub> Solid Solutions. Chemistry of Materials, 2006, 18, 3651-3659.	6.7	220
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
152	Correlation between microstructure and degradation in conductivity for cubic Y <sub>2</sub> O <sub>3</sub> -doped ZrO <sub>2</sub> . Solid State Ionics, 2006, 177, 3275-3284.	2.7	106
153	Accelerated Life Tests for Fuel Cells. ECS Transactions, 2006, 1, 377-384.	0.5	15
154	Modeling and Simulation Approach for Standardized Testing and Analysis of PEMFC CHP Systems. ECS Transactions, 2006, 1, 453-462.	0.5	1
155	Testing and model-aided analysis of a 2kWel PEMFC CHP-system. Journal of Power Sources, 2005, 145, 327-335.	7.8	26
156	Temperature-independent resistive oxygen sensors based on SrTi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3-y</sub> solid solutions. Sensors and Actuators B: Chemical, 2005, 108, 223-230.	7.8	102
157	Investigation of BZT thin films for tunable microwave applications. Journal of the European Ceramic Society, 2005, 25, 2289-2293.	5.7	22
158	Enhancement of oxygen surface exchange kinetics of SrTiO <sub>3</sub> by alkaline earth metal oxides. Physical Chemistry Chemical Physics, 2005, 7, 3523.	2.8	22
159	Sr(Ti, Fe)O <sub>3-δ</sub> Exhaust Gas Sensors. Materials Research Society Symposia Proceedings, 2004, 828, 135.	0.1	0
160	Annealing Effects on Structural and Dielectric Properties of Tunable BZT Thin Films. Journal of Electroceramics, 2004, 13, 229-233.	2.0	20
161	Processing and properties of BST thin films for tunable microwave devices. Journal of the European Ceramic Society, 2004, 24, 1735-1739.	5.7	49
162	Macroscale modeling of cathode formation in SOFC. Solid State Ionics, 2004, 174, 223-232.	2.7	47

#	ARTICLE	IF	CITATIONS
163	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
164	Electrode Polarisation. , 2003, , 229-260.		10
165	Oxidation of H <sub>2</sub> , CO and methane in SOFCs with Ni/YSZ-cermet anodes. Solid State Ionics, 2002, 152-153, 543-550.	2.7	186
166	Dielectric properties and tunability of BST and BZT thick films for microwave applications. Integrated Ferroelectrics, 2001, 39, 383-392.	0.7	20
167	Materials and technologies for SOFC-components. Journal of the European Ceramic Society, 2001, 21, 1805-1811.	5.7	466
168	Modelling and DC-polarisation of a three dimensional electrode/electrolyte interface. Journal of the European Ceramic Society, 2001, 21, 1813-1816.	5.7	37
169	Oxygen reduction mechanism at porous La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-d</sub> cathodes/La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>2.8</sub> electrolyte interface for solid oxide fuel cells. Electrochimica Acta, 2001, 46, 1837-1845.	5.2	121
170	Electrode Reaction of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-d</sub> Cathodes on La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>2.8</sub> Electrolyte in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2001, 148, A456.	2.9	51
171	Stability at La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3-d</sub> cathode/La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>2.8</sub> electrolyte interface under current flow for solid oxide fuel cells. Solid State Ionics, 2000, 133, 143-152.	2.7	30
172	High temperature oxygen sensors based on doped SrTiO <sub>3</sub> . Sensors and Actuators B: Chemical, 1999, 59, 184-189.	7.8	197
173	Formation and migration of cation defects in the perovskite oxide LaMnO <sub>3</sub> . Journal of Materials Chemistry, 1999, 9, 1621-1627.	6.7	144
174	Interaction between Microstructure and Electrical Properties of Screen Printed Cathodes in SOFC Single Cells. Electrochemistry, 1996, 64, 582-589.	0.3	22