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	8,259	43973	53109
papers	citations	48	85
		h-index	g-index

176	176	176	6051
all docs	docs citations	times ranked	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.	4.0	24
2	Understanding Deviations between Spatially Resolved and Homogenized Cathode Models of Lithiumâ€ion Batteries. Energy Technology, 2021, 9, 2000881.	1.8	14
3	Charge Transfer Parameters of Ni_xMn_yCo_{1â^'xâ^'y} Cathodes Evaluated by a Transmission Line Modeling Approach. Energy Technology, 2021, 9, 2000866.	1.8	8
4	A multi scale multi domain model for large format lithium-ion batteries. Electrochimica Acta, 2021, 393, 139046.	2.6	9
5	Virtual Electrode Design for Lithiumâ€ion Battery Cathodes. Energy Technology, 2021, 9, 2000891.	1.8	13
6	Influence of B-site doping with Ti and Nb on microstructure and phase constitution of (Ba0.5Sr0.5)(Co0.8Fe0.2)O3â^'Î´. Journal of Materials Science, 2020, 55, 947-966.	1.7	7
7	How the distribution of relaxation times enhances complex equivalent circuit models for fuel cells. Electrochimica Acta, 2020, 355, 136764.	2.6	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.	1.7	6
9	Impedance modelling of porous electrode structures in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2019, 444, 227279.	4.0	48
10	Advanced impedance model for double-layered solid oxide fuel cell cermet anodes. Journal of Power Sources, 2019, 415, 69-82.	4.0	38
11	The effect of Bâ€site Y substitution on cubic phase stabilization in (Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})O_{3â^'Î´}. Journal of the American Ceramic Society, 2019, 102, 4929-4942.	1.9	13
12	Capacity Fade in Lithium-Ion Batteries and Cyclic Aging over Various State-of-Charge Ranges. Sustainability, 2019, 11, 6697.	1.6	48
13	Microstructure and Performance Analysis of Solid Oxide Fuel Cells Co-Sintered on Inert Substrates. ECS Transactions, 2019, 91, 501-509.	0.3	1
14	Improved Phase Stability and CO₂ Poisoning Robustness of Y-Doped Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'Î´} SOFC Cathodes at Intermediate Temperatures. ACS Applied Energy Materials, 2018, 1, 1316-1327.	2.5	36
15	Impedance based time-domain modeling of lithium-ion batteries: Part I. Journal of Power Sources, 2018, 379, 317-327.	4.0	94
16	Yttrium doping of Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3-Î´ part II: Influence on oxygen transport and phase stability. Journal of the European Ceramic Society, 2018, 38, 2388-2395.	2.8	18
17	Advanced impedance modelling of Ni/8YSZ cermet anodes. Electrochimica Acta, 2018, 265, 736-750.	2.6	43
18	Yttrium doping of Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3-Î´ part I: Influence on oxygen permeation, electrical properties, reductive stability, and lattice parameters. Journal of the European Ceramic Society, 2018, 38, 2378-2387.	2.8	15

#	Article	IF	Citations
19	Gd_{0.2}Ce_{0.8}O₂ Diffusion Barrier Layer between (La_{0.58}Sr_{0.4})(Co_{0.2}Fe_{0.8})O_{3â^'Î´} Cathode and Y_{0.16}Zr_{0.84}O₂ Electrolyte for Solid Oxide Fuel Cells: Effect of Barrier Layer Sintering Temperature on Microstructure. ACS Applied Energy Materials, 2018, 1, 6790-6800.	2.5	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.	4.0	123
21	Assessment of all-solid-state lithium-ion batteries. Journal of Power Sources, 2018, 393, 119-127.	4.0	54
22	Nature and Functionality of La_{0.58}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-Î´}/ Gd_{0.2}Ce_{0.8}O_{2-Î´}/ Y_{0.16}Zr_{0.84}O_{2-Î´}Interfaces in SOFCs. Journal of the Electrochemical Society, 2018, 165, F898-F906.	1.3	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.	0.8	38
24	The impact of grain size, A/B-cation ratio, and Y-doping on secondary phase formation in (Ba0.5Sr0.5)(Co0.8Fe0.2)O3â^'Î´. Journal of Materials Science, 2017, 52, 2705-2719.	1.7	19
25	Correlating Cathode/Electrolyte Interface Characteristics to SOFC Performance. ECS Transactions, 2017, 77, 27-34.	0.3	5
26	High-Resolution Studies on Nanoscaled Ni/YSZ Anodes. Chemistry of Materials, 2017, 29, 5113-5123.	3.2	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.	1.3	50
28	Practical Guidelines for Reliable Electrochemical Characterization of Solid Oxide Fuel Cells. Electrochimica Acta, 2017, 227, 110-126.	2.6	72
29	Correlative tomography at the cathode/electrolyte interfaces of solid oxide fuel cells. Journal of Power Sources, 2017, 360, 399-408.	4.0	41
30	A Non-Isothermal 2D Stationary FEM Model for Hydrocarbon Fueled SOFCs Stack Layers. ECS Transactions, 2017, 78, 2673-2682.	0.3	6
31	Quantitative Study of LSCF and LSM-YSZ Cathode Microstructure by FIB/SEM Tomography. ECS Transactions, 2017, 78, 861-867.	0.3	3
32	Evaluation of electrochemical impedance spectra by the distribution of relaxation times. Journal of the Ceramic Society of Japan, 2017, 125, 193-201.	0.5	199
33	Pulse-fitting â€“ 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.	4.0	18
34	(Ba0.5Sr0.5)(Co0.8Fe0.2)O3-Î´Thin Films Derived by Metal-Organic Deposition: Preparation of Nanoscaled Surface Modifications and Electrochemical Characterization. Journal of the Electrochemical Society, 2016, 163, F302-F307.	1.3	3
35	Interface and grain boundary resistance of a lithium lanthanum titanate (Li3xLa2/3â^'xTiO3, LLTO) solid electrolyte. Journal of Power Sources, 2016, 307, 578-586.	4.0	41
36	Oxygen equilibration kinetics of mixed-conducting perovskites BSCF, LSCF, and PSCF at 900 Â°C determined by electrical conductivity relaxation. Solid State Ionics, 2015, 283, 30-37.	1.3	32

#	Article	IF	Citations
37	Modeling graphite anodes with serial and transmission line models. Journal of Power Sources, 2015, 282, 335-347.	4.0	100
38	Characterization of oxygen-dependent stability of selected mixed-conducting perovskite oxides. Solid State Ionics, 2015, 273, 41-45.	1.3	11
39	High-Performance Cathode/Electrolyte Interfaces for SOFC. ECS Transactions, 2015, 68, 763-771.	0.3	20
40	Accelerated Lifetime Tests for SOFCs. ECS Transactions, 2015, 68, 1953-1960.	0.3	17
41	Stationary 2D FEM Model Framework for SOFC Stack Performance Prediction. ECS Transactions, 2015, 68, 3043-3050.	0.3	1
42	A 2D Stationary FEM Model for Hydrocarbon Fuelled SOFC Stack Layers. ECS Transactions, 2015, 68, 2151-2158.	0.3	6
43	The chemical oxygen surface exchange and bulk diffusion coefficient determined by impedance spectroscopy of porous La0.58Sr0.4Co0.2Fe0.8O3â^Î´ (LSCF) cathodes. Solid State Ionics, 2015, 269, 67-79.	1.3	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.	4.0	29
45	Three-Dimensional Performance Model for Oxygen Transport Membranes. Journal of the Electrochemical Society, 2014, 161, F1409-F1415.	1.3	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.	1.3	28
47	Performance model for large area solid oxide fuel cells. Journal of Power Sources, 2014, 259, 65-75.	4.0	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.	4.0	66
49	Electrochemical model for SOFC and SOEC mode predicting performance and efficiency. International Journal of Hydrogen Energy, 2014, 39, 20844-20849.	3.8	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.	4.0	49
51	Performance of MIEC Cathodes in SOFC Stacks Evaluated by Means of FEM Modeling. ECS Transactions, 2014, 61, 191-201.	0.3	3
52	Electrochemical characterization and post-mortem analysis of aged LiMn2O4â€“Li(Ni0.5Mn0.3Co0.2)O2/graphite lithium ion batteries. Part I: Cycle aging. Journal of Power Sources, 2014, 251, 439-450.	4.0	177
53	Electrochemical characterization and post-mortem analysis of aged LiMn2O4â€“NMC/graphite lithium ion batteries part II: Calendar aging. Journal of Power Sources, 2014, 258, 61-75.	4.0	138
54	A novel and precise measuring method for the entropy of lithium-ion cells: Î”S via electrothermal impedance spectroscopy. Electrochimica Acta, 2014, 137, 311-319.	2.6	56

#	Article	IF	Citations
55	Electrochemical impedance modeling of gas transport and reforming kinetics in reformate fueled solid oxide fuel cell anodes. Electrochimica Acta, 2013, 106, 418-424.	2.6	33
56	Measurement of the internal cell temperature via impedance: Evaluation and application of a new method. Journal of Power Sources, 2013, 243, 110-117.	4.0	159
57	Electrochemistry of Reformate Fueled Ni/8YSZ Anodes for Solid Oxide Fuel Cells. ECS Transactions, 2013, 57, 3063-3075.	0.3	4
58	Static Performance Model for ASCs with Different Sizes and Its Experimental Validation. ECS Transactions, 2013, 57, 2849-2856.	0.3	0
59	Enhancing SOFC-Stack Performance by Model-Based Adaptation of Cathode Gas Transport Conditions. ECS Transactions, 2013, 57, 2871-2881.	0.3	5
60	Model Based Interpretation of Coupled Gas Conversion and Diffusion in SOFC-Anodes. ECS Transactions, 2013, 57, 2691-2704.	0.3	5
61	Secondary Phase Formation in Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â€“d} Studied by Electron Microscopy. Chemistry of Materials, 2013, 25, 564-573.	3.2	54
62	SOFC Anode Fabricated by Magnetically Aligning of Ni Particles. ECS Transactions, 2013, 57, 1307-1311.	0.3	8
63	Hetero-Interfaces at Nanoscaled (La,Sr)CoO_{3-Î´}Thin-Film Cathodes Enhancing Oxygen Surface-Exchange Properties. Journal of the Electrochemical Society, 2013, 160, F351-F359.	1.3	75
64	Three-Dimensional Performance Simulation of SOFC Anodes Using FIB-Tomography Reconstructions. ECS Transactions, 2013, 57, 2563-2572.	0.3	5
65	Understanding the impedance spectrum of 18650 LiFePO4-cells. Journal of Power Sources, 2013, 239, 670-679.	4.0	136
66	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.	2.3	39
67	Analysis and prediction of the open circuit potential of lithium-ion cells. Journal of Power Sources, 2013, 239, 696-704.	4.0	69
68	Time-Dependent 3D Impedance Model of Mixed-Conducting Solid Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2013, 160, F867-F876.	1.3	37
69	The distribution of relaxation times as basis for generalized time-domain models for Li-ion batteries. Journal of Power Sources, 2013, 221, 70-77.	4.0	138
70	Electrochemical Modeling of the Current-Voltage Characteristics of an SOFC in Fuel Cell and Electrolyzer Operation Modes. Journal of the Electrochemical Society, 2013, 160, F313-F323.	1.3	79
71	Degradation of a High Performance SOFC Cathode by Crâ€Poisoning at OCVâ€Conditions. Fuel Cells, 2013, 13, 506-510.	1.5	30
72	Sulfur Poisoning of Anodeâ€Supported SOFCs under Reformate Operation. Fuel Cells, 2013, 13, 487-493.	1.5	47

#	Article	IF	Citations
73	Electrochemical Studies on Anode Supported Solid Oxide Electrolyzer Cells. ECS Transactions, 2012, 41, 113-122.	0.3	4
74	Beneficial Use of a Virtual Reference Electrode for the Determination of SOC Dependent Half Cell Potentials. ECS Transactions, 2012, 41, 1-8.	0.3	0
75	Current-Voltage and Temperature Characteristics of Anode Supported Solid Oxide Electrolyzer Cells (SOEC). ECS Transactions, 2012, 45, 523-530.	0.3	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.	1.3	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.	0.3	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.	1.3	28
80	Quantitative Characterization of LiFePO₄Cathodes Reconstructed by FIB/SEM Tomography. Journal of the Electrochemical Society, 2012, 159, A972-A980.	1.3	110
81	Electrochemical Analysis of Sulphur-Poisoning in Anode-Supported SOFCs under Reformate Operation. ECS Transactions, 2012, 41, 161-169.	0.3	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.	2.6	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.	0.3	8
86	Transient 3D FEM Impedance-Model for Mixed Conducting Cathodes. ECS Transactions, 2012, 45, 313-325.	0.3	5
87	Elementary kinetic modeling and experimental validation of electrochemical CO oxidation on Ni/YSZ pattern anodes. Electrochimica Acta, 2012, 59, 573-580.	2.6	45
88	3D finite element model for reconstructed mixed-conducting cathodes: I. Performance quantification. Electrochimica Acta, 2012, 77, 315-323.	2.6	75
89	3D finite element model for reconstructed mixed-conducting cathodes: II. Parameter sensitivity analysis. Electrochimica Acta, 2012, 77, 309-314.	2.6	28
90	Decomposition pathway of cubic Ba0.5Sr0.5Co0.8Fe0.2O3â˜Î´ between 700Â°C and 1000Â°C analyzed by electron microscopic techniques. Solid State Ionics, 2012, 206, 57-66.	1.3	52

#	Article	IF	Citations
91	Evaluation of the Rate Determining Processes for LiFePO₄ as Cathode Material in Lithium-Ion-Batteries. ECS Transactions, 2011, 33, 3-15.	0.3	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.	1.3	94
93	Detailed Microstructure Analysis and 3D Simulations of Porous Electrodes. ECS Transactions, 2011, 35, 2357-2368.	0.3	25
94	Hydrogen-Oxidation Kinetics in Reformate-Fuelled Anode Supported SOFC. ECS Transactions, 2011, 35, 665-678.	0.3	5
95	Thermal stability of the cubic phase in Ba0.5Sr0.5Co0.8Fe0.2O3-Î´ (BSCF)1. Solid State Ionics, 2011, 197, 25-31.	1.3	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.	4.0	49
97	Electrochemical Analysis of Biogas Fueled Anode Supported SOFC. ECS Transactions, 2011, 35, 2961-2968.	0.3	10
98	Nonlinear ceramics for tunable microwave devices part I: materials properties and processing. Microsystem Technologies, 2011, 17, 203-211.	1.2	18
99	Degradation of anode supported cell (ASC) performance by Cr-poisoning. Journal of Power Sources, 2011, 196, 7203-7208.	4.0	64
100	Studying the COâ€“CO2 characteristics of SOFC anodes by means of patterned Ni anodes. Journal of Power Sources, 2011, 196, 7217-7224.	4.0	46
101	Nanoscaled La0.6Sr0.4CoO3â^'Î´ as intermediate temperature solid oxide fuel cell cathode: Microstructure and electrochemical performance. Journal of Power Sources, 2011, 196, 7263-7270.	4.0	101
102	Microstructure of Nanoscaled La_{0.6}Sr_{0.4}CoO_{3â€Î´} Cathodes for Intermediateâ€Temperature Solid Oxide Fuel Cells. Advanced Energy Materials, 2011, 1, 249-258.	10.2	69
103	Three-dimensional reconstruction of a composite cathode for lithium-ion cells. Electrochemistry Communications, 2011, 13, 166-168.	2.3	132
104	Electrochemical performances of solid oxide fuel cells based on Y-substituted SrTiO3 ceramic anode materials. Journal of Power Sources, 2011, 196, 7308-7312.	4.0	57
105	Studies on LiFePO4 as cathode material using impedance spectroscopy. Journal of Power Sources, 2011, 196, 5342-5348.	4.0	319
106	Reconstruction of porous electrodes by FIB/SEM for detailed microstructure modeling. Journal of Power Sources, 2011, 196, 7302-7307.	4.0	154
107	Performance limiting factors in anode-supported cells originating from metallic interconnector design. Journal of Power Sources, 2011, 196, 7209-7216.	4.0	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.	4.0	48

#	Article	IF	Citations
109	Performance analysis of mixed ionicâ€“electronic conducting cathodes in anode supported cells. Journal of Power Sources, 2011, 196, 7257-7262.	4.0	30
110	Study of the oxygen incorporation and diffusion in Sr(Ti0.65Fe0.35)O3 ceramics. Solid State Ionics, 2011, 192, 9-11.	1.3	13
111	Microstructure stability studies of Ni patterned anodes for SOFC. Solid State Ionics, 2011, 192, 565-570.	1.3	27
112	Elementary Kinetic Numerical Simulation of Electrochemical CO Oxidation on Ni/YSZ Pattern Anodes. ECS Transactions, 2011, 35, 1743-1751.	0.3	3
113	Impedance Studies on Solid Oxide Fuel Cells with Yttrium-Substituted SrTiO₃ Ceramic Anodes. ECS Transactions, 2011, 35, 1421-1433.	0.3	3
114	Degradation of Solid Oxide Fuel Cell Performance by Cr-Poisoning. ECS Transactions, 2011, 35, 2009-2017.	0.3	6
115	pO₂ stability of Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-Î´}. 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.	1.3	90
117	Electrochemical Oxidation at SOFC Anodes: Comparison of Patterned Nickel Anodes and Nickel/8YSZ Cermet Anodes. ECS Transactions, 2011, 35, 1669-1682.	0.3	12
118	Detailed Electrochemical Analysis of High-Performance Nanoscaled La0.6Sr0.4CoO3-Î´ Thin Film Cathodes. ECS Transactions, 2011, 35, 2261-2273.	0.3	6
119	Electrooxidation of Reformate Gases at Model Anodes. ECS Transactions, 2011, 35, 1513-1528.	0.3	4
120	Performance Analysis and Development Strategies for Solid Oxide Fuel Cells. ECS Transactions, 2011, 35, 1965-1973.	0.3	5
121	Anode-supported planar SOFC with high performance and redox stability. Electrochemistry Communications, 2010, 12, 1326-1328.	2.3	57
122	BSCF epitaxial thin films: Electrical transport and oxygen surface exchange. Solid State Ionics, 2010, 181, 602-608.	1.3	37
123	Electrode Reconstruction by FIB/SEM and Microstructure Modeling. ECS Transactions, 2010, 28, 81-91.	0.3	14
124	Internal Reforming Kinetics in SOFC-Anodes. ECS Transactions, 2010, 28, 205-215.	0.3	10
125	Electrochemical Performance of Nanoscaled La0.6Sr0.4CoO3-Î´ as Intermediate Temperature SOFC Cathode. ECS Transactions, 2010, 28, 3-15.	0.3	8
126	Ba0.5Sr0.5Co0.8Fe0.2O3-Î´ for Oxygen Separation Membranes. ECS Transactions, 2010, 28, 309-314.	0.3	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.	0.3	3
128	Studies on LiFePO4 as Cathode Material in Li-Ion Batteries. ECS Transactions, 2010, 28, 3-17.	0.3	26
129	Increase of Anode Performance of SOFC by Reverse Current Treatment. ECS Transactions, 2010, 28, 141-150.	0.3	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.	1.3	133
131	A 0-Dimensional Stationary Model for Anode-Supported Solid Oxide Fuel Cells. ECS Transactions, 2010, 28, 341-346.	0.3	12
132	3D Electrode Microstructure Reconstruction and Modelling. ECS Transactions, 2009, 25, 1211-1220.	0.3	47
133	Dynamic Electrochemical Model For SOFC-Stacks. ECS Transactions, 2009, 25, 1331-1340.	0.3	4
134	Recovery of Anode Performance by Reverse Current Treatment. ECS Transactions, 2009, 25, 2049-2056.	0.3	3
135	Impact of Flowfield Design on Solid Oxide Fuel Cell Performance. ECS Transactions, 2009, 25, 815-824.	0.3	4
136	Degradation Effects of Ni Patterned Anodes in H2/H2O Atmosphere. ECS Transactions, 2009, 25, 2013-2021.	0.3	5
137	Grainâ€Size Effects in YSZ Thinâ€Film Electrolytes. Journal of the American Ceramic Society, 2009, 92, 2017-2024.	1.9	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.	1.7	8
139	Anodically formed oxide films on niobium: Microstructural and electrical properties. Journal of the European Ceramic Society, 2009, 29, 1743-1753.	2.8	38
140	Long-Term Study of MIEC Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. ECS Transactions, 2009, 25, 2381-2390.	0.3	9
141	SOFC Modeling and Parameter Identification by Means of Impedance Spectroscopy. ECS Transactions, 2009, 19, 81-109.	0.3	157
142	Microstructure of Nanocrystalline Yttriaâ€Doped Zirconia Thin Films Obtained by Solâ€“Gel Processing. Journal of the American Ceramic Society, 2008, 91, 2281-2289.	1.9	21
143	Towards Understanding the Impedance Response of Ni/YSZ Anodes. ECS Transactions, 2007, 7, 1363-1372.	0.3	9
144	Evaluation and Modelling of the Cell Resistance in Anode Supported Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 521-531.	0.3	21

#	Article	IF	Citations
145	Coke Formation in Hydrocarbons-Containing Fuel Gas and Effects on SOFC Degradation Phenomena. ECS Transactions, 2007, 7, 1429-1435.	0.3	4
146	Modular Testing and Simulation Environment for Analysis and Optimization of Fuel Cell Systems. ECS Transactions, 2007, 5, 297-308.	0.3	0
147	3D-Modelling and Performance Evaluation of Mixed Conducting (MIEC) Cathodes. ECS Transactions, 2007, 7, 2065-2074.	0.3	36
148	Experimental and Modeling Study of the Impedance of Ni/YSZ Cermet Anodes. ECS Transactions, 2007, 7, 1573-1582.	0.3	17
149	Model-Aided Testing of a PEMFC CHP System. Fuel Cells, 2007, 7, 70-77.	1.5	10
150	Electronic Structure, Defect Chemistry, and Transport Properties of SrTi1-xFexO3-ySolid Solutions. Chemistry of Materials, 2006, 18, 3651-3659.	3.2	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.	4.0	4
152	Correlation between microstructure and degradation in conductivity for cubic Y2O3-doped ZrO2. Solid State Ionics, 2006, 177, 3275-3284.	1.3	106
153	Accelerated Life Tests for Fuel Cells. ECS Transactions, 2006, 1, 377-384.	0.3	15
154	Modeling and Simulation Approach for Standardized Testing and Analysis of PEMFC CHP Systems. ECS Transactions, 2006, 1, 453-462.	0.3	1
155	Testing and model-aided analysis of a 2kWel PEMFC CHP-system. Journal of Power Sources, 2005, 145, 327-335.	4.0	26
156	Temperature-independent resistive oxygen sensors based on SrTi1âˆ’xFexO3âˆ’Î´ solid solutions. Sensors and Actuators B: Chemical, 2005, 108, 223-230.	4.0	102
157	Investigation of BZT thin films for tunable microwave applications. Journal of the European Ceramic Society, 2005, 25, 2289-2293.	2.8	22
158	Enhancement of oxygen surface exchange kinetics of SrTiO3 by alkaline earth metal oxides. Physical Chemistry Chemical Physics, 2005, 7, 3523.	1.3	22
159	Sr(Ti, Fe)O3-Î´ 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.	0.8	20
161	Processing and properties of BST thin films for tunable microwave devices. Journal of the European Ceramic Society, 2004, 24, 1735-1739.	2.8	49
162	Macroscale modeling of cathode formation in SOFC. Solid State Ionics, 2004, 174, 223-232.	1.3	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.	4.0	390
164	Electrode Polarisations. , 2003, , 229-260.		10
165	Oxidation of H2, CO and methane in SOFCs with Ni/YSZ-cermet anodes. Solid State Ionics, 2002, 152-153, 543-550.	1.3	186
166	Dielectric properties and tunability of BST and BZT thick films for microwave applications. Integrated Ferroelectrics, 2001, 39, 383-392.	0.3	20
167	Materials and technologies for SOFC-components. Journal of the European Ceramic Society, 2001, 21, 1805-1811.	2.8	466
168	Modelling and DC-polarisation of a three dimensional electrode/electrolyte interface. Journal of the European Ceramic Society, 2001, 21, 1813-1816.	2.8	37
169	Oxygen reduction mechanism at porous La1â^'xSrxCoO3â^'d cathodes/La0.8Sr0.2Ga0.8Mg0.2O2.8 electrolyte interface for solid oxide fuel cells. Electrochimica Acta, 2001, 46, 1837-1845.	2.6	121
170	Electrode Reaction of La[sub 1â^'x]Sr[sub x]CoO[sub 3â^'d] Cathodes on La[sub 0.8]Sr[sub 0.2]Ga[sub 0.8]Mg[sub 0.2]O[sub 3â^'y] Electrolyte in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2001, 148, A456.	1.3	51
171	Stability at La0.6Sr0.4CoO3â^'d cathode/La0.8Sr0.2Ga0.8Mg0.2O2.8 electrolyte interface under current flow for solid oxide fuel cells. Solid State Ionics, 2000, 133, 143-152.	1.3	30
172	High temperature oxygen sensors based on doped SrTiO3. Sensors and Actuators B: Chemical, 1999, 59, 184-189.	4.0	197
173	Formation and migration of cation defects in the perovskite oxide LaMnO3. 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