

## List of Publications by Year in descending order

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187  
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190  
all docs

190  
docs citations

190  
times ranked

5360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking the performance of all-solid-state lithium batteries. <i>Nature Energy</i> , 2020, 5, 259-270.	19.8	662
2	Evaluation and Modeling of the Cell Resistance in Anode-Supported Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B36.	1.3	470
3	Materials and technologies for SOFC-components. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1805-1811.	2.8	466
4	Materials and concepts for solid oxide fuel cells (SOFCs) in stationary and mobile applications. <i>Journal of Power Sources</i> , 2004, 127, 273-283.	4.0	390
5	Evaluation of electrochemical impedance spectra by the distribution of relaxation times. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 193-201.	0.5	199
6	Oxidation of H <sub>2</sub> , CO and methane in SOFCs with Ni/YSZ-cermet anodes. <i>Solid State Ionics</i> , 2002, 152-153, 543-550.	1.3	186
7	Reconstruction of porous electrodes by FIB/SEM for detailed microstructure modeling. <i>Journal of Power Sources</i> , 2011, 196, 7302-7307.	4.0	154
8	Durability of Ni anodes during reoxidation cycles. <i>Journal of Power Sources</i> , 2010, 195, 5452-5467.	4.0	146
9	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.	4.0	138
10	Understanding the impedance spectrum of 18650 LiFePO <sub>4</sub> -cells. <i>Journal of Power Sources</i> , 2013, 239, 670-679.	4.0	136
11	Model anodes and anode models for understanding the mechanism of hydrogen oxidation in solid oxide fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13888.	1.3	133
12	Advanced impedance study of polymer electrolyte membrane single cells by means of distribution of relaxation times. <i>Journal of Power Sources</i> , 2018, 402, 24-33.	4.0	123
13	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. <i>Electrochimica Acta</i> , 2001, 46, 1837-1845.	2.6	121
14	Correlation between microstructure and degradation in conductivity for cubic Y <sub>2</sub> O <sub>3</sub> -doped ZrO <sub>2</sub> . <i>Solid State Ionics</i> , 2006, 177, 3275-3284.	1.3	106
15	Manufacturing and characterization of metal-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7117-7125.	4.0	105
16	Impedance Study of Alternative (La,Sr)FeO <sub>3-δ</sub> and (La,Sr)(Co,Fe)O <sub>3-δ</sub> MIEC Cathode Compositions. <i>Journal of the Electrochemical Society</i> , 2010, 157, B234.	1.3	104
17	How the distribution of relaxation times enhances complex equivalent circuit models for fuel cells. <i>Electrochimica Acta</i> , 2020, 355, 136764.	2.6	103
18	Nanoscaled (La <sub>0.5</sub> Sr <sub>0.5</sub> )CoO <sub>3-δ</sub> Thin Film Cathodes for SOFC Application at 500°C & 700°C. <i>Journal of the Electrochemical Society</i> , 2008, 155, B730.	1.3	102

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19	Modeling graphite anodes with serial and transmission line models. <i>Journal of Power Sources</i> , 2015, 282, 335-347.	4.0	100
20	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.	1.3	94
21	Electrochemical Analysis of Reformate-Fuelled Anode Supported SOFC. <i>Journal of the Electrochemical Society</i> , 2011, 158, B980.	1.3	90
22	Grain Size Effects in YSZ Thin Film Electrolytes. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2017-2024.	1.9	83
23	Kinetics of oxidation and reduction of Ni/YSZ cermets. <i>Ionics</i> , 2003, 9, 103-108.	1.2	81
24	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.	1.3	79
25	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.	2.6	75
26	3D finite element model for reconstructed mixed-conducting cathodes: I. Performance quantification. <i>Electrochimica Acta</i> , 2012, 77, 315-323.	2.6	75
27	Time-Dependent Electrode Performance Changes in Intermediate Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010, 157, B292.	1.3	74
28	Internal Reforming of Methane at Ni/YSZ and Ni/CGO SOFC Cermet Anodes. <i>Fuel Cells</i> , 2006, 6, 307-313.	1.5	72
29	Practical Guidelines for Reliable Electrochemical Characterization of Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2017, 227, 110-126.	2.6	72
30	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. <i>Solid State Ionics</i> , 2015, 269, 67-79.	1.3	70
31	Degradation and Relaxation Effects of Ni Patterned Anodes in $\text{H}_2/\text{H}_2\text{O}$ Atmosphere. <i>Journal of the Electrochemical Society</i> , 2010, 157, B920.	1.3	65
32	Degradation of anode supported cell (ASC) performance by Cr-poisoning. <i>Journal of Power Sources</i> , 2011, 196, 7203-7208.	4.0	64
33	A Consistent Derivation of the Impedance of a Lithium-Ion Battery Electrode and its Dependency on the State-of-Charge. <i>Electrochimica Acta</i> , 2017, 243, 250-259.	2.6	60
34	Influence of the Carbon Black Dispersing Process on the Microstructure and Performance of Li-Ion Battery Cathodes. <i>Energy Technology</i> , 2020, 8, 1900161.	1.8	59
35	Continuum scale modelling and complementary experimentation of solid oxide cells. <i>Progress in Energy and Combustion Science</i> , 2021, 85, 100902.	15.8	58
36	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.	2.6	56

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37	Assessment of all-solid-state lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 393, 119-127.	4.0	54
38	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.	1.3	51
39	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.	1.3	50
40	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.	4.0	49
41	Microstructural feature analysis of commercial Li-ion battery cathodes by focused ion beam tomography. <i>Journal of Power Sources</i> , 2019, 427, 1-14.	4.0	49
42	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.	4.0	48
43	Impedance modelling of porous electrode structures in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2019, 444, 227279.	4.0	48
44	Macroscale modeling of cathode formation in SOFC. <i>Solid State Ionics</i> , 2004, 174, 223-232.	1.3	47
45	3D Electrode Microstructure Reconstruction and Modelling. <i>ECS Transactions</i> , 2009, 25, 1211-1220.	0.3	47
46	Sulfur Poisoning of Anode-Supported SOFCs under Reformate Operation. <i>Fuel Cells</i> , 2013, 13, 487-493.	1.5	47
47	Structural and chemical properties of nanocrystalline $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ layers on yttria-stabilized zirconia analyzed by transmission electron microscopy. <i>Journal of Materials Science</i> , 2008, 43, 3135-3143.	1.7	46
48	Studying the $\text{CO} \rightarrow \text{CO}_2$ characteristics of SOFC anodes by means of patterned Ni anodes. <i>Journal of Power Sources</i> , 2011, 196, 7217-7224.	4.0	46
49	Electrochemical Analysis of Sulfur-Poisoning in Anode Supported SOFCs Fuelled with a Model Reformate. <i>Journal of the Electrochemical Society</i> , 2012, 159, B597-B601.	1.3	46
50	Elementary kinetic modeling and experimental validation of electrochemical CO oxidation on Ni/YSZ pattern anodes. <i>Electrochimica Acta</i> , 2012, 59, 573-580.	2.6	45
51	Electrochemical model for SOFC and SOEC mode predicting performance and efficiency. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20844-20849.	3.8	45
52	Advanced impedance modelling of Ni/8YSZ cermet anodes. <i>Electrochimica Acta</i> , 2018, 265, 736-750.	2.6	43
53	Performance limiting factors in anode-supported cells originating from metallic interconnector design. <i>Journal of Power Sources</i> , 2011, 196, 7209-7216.	4.0	41
54	Interface and grain boundary resistance of a lithium lanthanum titanate ( $\text{Li}_3\text{La}_2/3\text{TiO}_3$ , LLTO) solid electrolyte. <i>Journal of Power Sources</i> , 2016, 307, 578-586.	4.0	41

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55	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.	2.3	39
56	Coke Formation and Degradation in SOFC Operation with a Model Reformate from Liquid Hydrocarbons. <i>Journal of the Electrochemical Society</i> , 2008, 155, B356.	1.3	38
57	Anodically formed oxide films on niobium: Microstructural and electrical properties. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1743-1753.	2.8	38
58	Separation of the bulk and grain boundary contributions to the total conductivity of solid lithium-ion conducting electrolytes. <i>Journal of Electroceramics</i> , 2017, 38, 157-167.	0.8	38
59	Electrochemical Impedance Analysis of Symmetrical Ni/Gadolinium-Doped Ceria (CGO10) Electrodes in Electrolyte-Supported Solid Oxide Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, F865-F872.	1.3	38
60	Advanced impedance model for double-layered solid oxide fuel cell cermet anodes. <i>Journal of Power Sources</i> , 2019, 415, 69-82.	4.0	38
61	Modelling and DC-polarisation of a three dimensional electrode/electrolyte interface. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1813-1816.	2.8	37
62	Time-Dependent 3D Impedance Model of Mixed-Conducting Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, F867-F876.	1.3	37
63	3D-Modelling and Performance Evaluation of Mixed Conducting (MIEC) Cathodes. <i>ECS Transactions</i> , 2007, 7, 2065-2074.	0.3	36
64	The Distribution of Relaxation Times as Beneficial Tool for Equivalent Circuit Modeling of Fuel Cells and Batteries. <i>ECS Transactions</i> , 2012, 41, 25-33.	0.3	34
65	Electrochemical impedance modeling of gas transport and reforming kinetics in reformate fueled solid oxide fuel cell anodes. <i>Electrochimica Acta</i> , 2013, 106, 418-424.	2.6	33
66	The Status of Metal-Supported SOFC Development and Industrialization at Plansee. <i>ECS Transactions</i> , 2013, 57, 471-480.	0.3	33
67	Multiphysical modelling of planar solid oxide fuel cell stack layers. <i>Journal of Power Sources</i> , 2020, 451, 227552.	4.0	32
68	Fuel flexibility of solid oxide fuel cells. <i>Fuel Cells</i> , 2021, 21, 440-452.	1.5	31
69	Stability at La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</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. <i>Solid State Ionics</i> , 2000, 133, 143-152.	1.3	30
70	Performance analysis of mixed ionic-electronic conducting cathodes in anode supported cells. <i>Journal of Power Sources</i> , 2011, 196, 7257-7262.	4.0	30
71	Degradation of a High Performance SOFC Cathode by Cr Poisoning at OCV Conditions. <i>Fuel Cells</i> , 2013, 13, 506-510.	1.5	30
72	Manufacturing of high performance solid oxide fuel cells (SOFCs) with atmospheric plasma spraying (APS) and plasma spray-physical vapor deposition (PS-PVD). <i>Surface and Coatings Technology</i> , 2017, 318, 170-177.	2.2	30

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73	A novel and fast method of characterizing the self-discharge behavior of lithium-ion cells using a pulse-measurement technique. <i>Journal of Power Sources</i> , 2015, 274, 1231-1238.	4.0	29
74	3D finite element model for reconstructed mixed-conducting cathodes: II. Parameter sensitivity analysis. <i>Electrochimica Acta</i> , 2012, 77, 309-314.	2.6	28
75	Stationary FEM Model for Performance Evaluation of Planar Solid Oxide Fuel Cells Connected by Metal Interconnectors. <i>Journal of the Electrochemical Society</i> , 2014, 161, F778-F788.	1.3	28
76	Microstructure stability studies of Ni patterned anodes for SOFC. <i>Solid State Ionics</i> , 2011, 192, 565-570.	1.3	27
77	Testing and model-aided analysis of a 2kWel PEMFC CHP-system. <i>Journal of Power Sources</i> , 2005, 145, 327-335.	4.0	26
78	Advances in Metal Supported Cells in the METSOFC EU Consortium. <i>Fuel Cells</i> , 2013, 13, 592-597.	1.5	26
79	Detailed Microstructure Analysis and 3D Simulations of Porous Electrodes. <i>ECS Transactions</i> , 2011, 35, 2357-2368.	0.3	25
80	Reducing Impedance at a Li-Metal Anode/Garnet-Type Electrolyte Interface Implementing Chemically Resolvable In Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14739-14752.	4.0	24
81	Inductive Low-Frequency Processes in PEMFC Impedance Spectra. <i>Fuel Cells</i> , 2020, 20, 499-506.	1.5	23
82	Interaction between Microstructure and Electrical Properties of Screen Printed Cathodes in SOFC Single Cells. <i>Electrochemistry</i> , 1996, 64, 582-589.	0.3	22
83	Evaluation and Modelling of the Cell Resistance in Anode Supported Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2007, 7, 521-531.	0.3	21
84	Easy access to CuO nanoparticles and porous copper electrodes with high oxidation stability and high conductivity. <i>Journal of Materials Chemistry</i> , 2012, 22, 987-993.	6.7	21
85	Development of Metal-Supported Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2011, 35, 343-349.	0.3	19
86	Breakdown of Losses in High-Performing Metal-Supported Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2013, 13, 598-604.	1.5	17
87	Accelerated Lifetime Tests for SOFCs. <i>ECS Transactions</i> , 2015, 68, 1953-1960.	0.3	17
88	Numerical evaluation of micro-structural parameters of porous supports in metal-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 273, 1006-1015.	4.0	17
89	Development of Robust Metal-Supported SOFCs and Stack Components in EU METSAPP Consortium. <i>Fuel Cells</i> , 2017, 17, 508-516.	1.5	16
90	Kinetic Studies on State of the Art Solid Oxide Cells: A Comparison between Hydrogen/Steam and Reformate Fuels. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1451-F1462.	1.3	15

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91	Deconvolution of Gas Diffusion Polarization in Ni/Gadolinium-Doped Ceria Fuel Electrodes. Journal of the Electrochemical Society, 2021, 168, 124506.	1.3	15
92	Electrode Reconstruction by FIB/SEM and Microstructure Modeling. ECS Transactions, 2010, 28, 81-91.	0.3	14
93	Electrochemical Performance of Plasma Sprayed Metal Supported Planar Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2016, 163, F1059-F1065.	1.3	14
94	Understanding Deviations between Spatially Resolved and Homogenized Cathode Models of Lithium-Ion Batteries. Energy Technology, 2021, 9, 2000881.	1.8	14
95	Virtual Electrode Design for Lithium-Ion Battery Cathodes. Energy Technology, 2021, 9, 2000891.	1.8	13
96	Quantifying lithium enrichment at grain boundaries in Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> solid electrolyte by correlative microscopy. Journal of Power Sources, 2022, 539, 231417.	4.0	13
97	Electrochemical Oxidation at SOFC Anodes: Comparison of Patterned Nickel Anodes and Nickel/8YSZ Cermet Anodes. ECS Transactions, 2011, 35, 1669-1682.	0.3	12
98	Effect of sintering temperature on Li diffusivity in Li <sub>0.29</sub> La <sub>0.57</sub> TiO <sub>3</sub> : Local hopping and long-range transport. Solid State Ionics, 2020, 357, 115486.	1.3	11
99	Model-Aided Testing of a PEMFC CHP System. Fuel Cells, 2007, 7, 70-77.	1.5	10
100	Internal Reforming Kinetics in SOFC-Anodes. ECS Transactions, 2010, 28, 205-215.	0.3	10
101	Electrochemical Analysis of Biogas Fueled Anode Supported SOFC. ECS Transactions, 2011, 35, 2961-2968.	0.3	10
102	Long-Term Study of MIEC Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. ECS Transactions, 2009, 25, 2381-2390.	0.3	9
103	Current-Voltage and Temperature Characteristics of Anode Supported Solid Oxide Electrolyzer Cells (SOEC). ECS Transactions, 2012, 45, 523-530.	0.3	9
104	Electrochemical Analysis of Sulphur-Poisoning in Anode-Supported SOFCs under Reformate Operation. ECS Transactions, 2012, 41, 161-169.	0.3	9
105	(Invited) Sulfur Poisoning of Ni-Based SOFC-Anodes – Short and Long Term Behavior. ECS Transactions, 2017, 77, 141-147.	0.3	9
106	A multi scale multi domain model for large format lithium-ion batteries. Electrochimica Acta, 2021, 393, 139046.	2.6	9
107	Electro-chemo-mechanical analysis of a solid oxide cell based on doped ceria. Journal of Power Sources, 2022, 541, 231505.	4.0	9
108	Characterization of SOFC Single Cells. ECS Proceedings Volumes, 2001, 2001-16, 952-962.	0.1	8

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109	Nano-Structuring of SOFC Anodes by Reverse Current Treatment. ECS Transactions, 2012, 45, 241-249.	0.3	8
110	SOFC Anode Fabricated by Magnetically Aligning of Ni Particles. ECS Transactions, 2013, 57, 1307-1311.	0.3	8
111	Optimization of Material Contrast for Efficient FIB-SEM Tomography of Solid Oxide Fuel Cells. Fuel Cells, 2020, 20, 580-591.	1.5	8
112	FUEL CELLS - SOLID OXIDE FUEL CELLS   Life-Limiting Considerations. , 2009, , 120-134.		7
113	Nanoscale Gd-Doped CeO2 Buffer Layer for a High Performance Solid Oxide Fuel Cell. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	7
114	Impedance analysis of porous electrode structures in batteries and fuel cells. TM Technisches Messen, 2021, 88, 1-16.	0.3	7
115	Degradation of Solid Oxide Fuel Cell Performance by Cr-Poisoning. ECS Transactions, 2011, 35, 2009-2017.	0.3	6
116	A 2D Stationary FEM Model for Hydrocarbon Fuelled SOFC Stack Layers. ECS Transactions, 2015, 68, 2151-2158.	0.3	6
117	A Non-Isothermal 2D Stationary FEM Model for Hydrocarbon Fueled SOFCs Stack Layers. ECS Transactions, 2017, 78, 2673-2682.	0.3	6
118	Development of plasma sprayed Ni/YSZ anodes for metal supported solid oxide fuel cells. Surface and Coatings Technology, 2017, 318, 178-189.	2.2	6
119	Infiltration of Lanthanum Doped Ceria into Nickel-Zirconia Anodes for Direct Butane Utilization in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2019, 166, F301-F305.	1.3	6
120	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
121	Impedance-Based Performance Analysis of Micropatterned Polymer Electrolyte Membrane Fuel Cells. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	1.1	6
122	Degradation Effects of Ni Patterned Anodes in H2/H2O Atmosphere. ECS Transactions, 2009, 25, 2013-2021.	0.3	5
123	Hydrogen-Oxidation Kinetics in Reformate-Fuelled Anode Supported SOFC. ECS Transactions, 2011, 35, 665-678.	0.3	5
124	Performance Analysis and Development Strategies for Solid Oxide Fuel Cells. ECS Transactions, 2011, 35, 1965-1973.	0.3	5
125	Transient 3D FEM Impedance-Model for Mixed Conducting Cathodes. ECS Transactions, 2012, 45, 313-325.	0.3	5
126	Enhancing SOFC-Stack Performance by Model-Based Adaptation of Cathode Gas Transport Conditions. ECS Transactions, 2013, 57, 2871-2881.	0.3	5



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127	Model Based Interpretation of Coupled Gas Conversion and Diffusion in SOFC-Anodes. ECS Transactions, 2013, 57, 2691-2704.	0.3	5
128	Three-Dimensional Performance Simulation of SOFC Anodes Using FIB-Tomography Reconstructions. ECS Transactions, 2013, 57, 2563-2572.	0.3	5
129	Performance model for large area solid oxide fuel cells. Journal of Power Sources, 2014, 259, 65-75.	4.0	5
130	Production and Reliability Oriented SOFC Cell and Stack Design. ECS Transactions, 2017, 78, 2231-2249.	0.3	5
131	Coke Formation in Hydrocarbons-Containing Fuel Gas and Effects on SOFC Degradation Phenomena. ECS Transactions, 2007, 7, 1429-1435.	0.3	4
132	Dynamic Electrochemical Model For SOFC-Stacks. ECS Transactions, 2009, 25, 1331-1340.	0.3	4
133	Impact of Flowfield Design on Solid Oxide Fuel Cell Performance. ECS Transactions, 2009, 25, 815-824.	0.3	4
134	Electrooxidation of Reformate Gases at Model Anodes. ECS Transactions, 2011, 35, 1513-1528.	0.3	4
135	Electrochemical Studies on Anode Supported Solid Oxide Electrolyzer Cells. ECS Transactions, 2012, 41, 113-122.	0.3	4
136	Electrochemistry of Reformate Fueled Ni/8YSZ Anodes for Solid Oxide Fuel Cells. ECS Transactions, 2013, 57, 3063-3075.	0.3	4
137	FEM Model-Based Design Optimization of a Planar SOFC Interconnector Flowfield. ECS Transactions, 2019, 91, 2233-2240.	0.3	4
138	Guidelines to correctly measure the lithium ion conductivity of oxide ceramic electrolytes based on a harmonized testing procedure. Journal of Power Sources, 2022, 531, 231323.	4.0	4
139	Performance Study of Alternative (La,Sr)FeO <sub>3-<math>\delta</math></sub> and (La,Sr)(Co,Fe)O <sub>3-<math>\delta</math></sub> MIEC Cathode Compositions. ECS Transactions, 2009, 25, 2487-2496.	0.3	3
140	Oxygen Surface Exchange and Bulk Diffusion Coefficients Evaluated from Porous Mixed Ionic-Electronic Conducting Cathodes. ECS Transactions, 2010, 28, 71-80.	0.3	3
141	Elementary Kinetic Numerical Simulation of Electrochemical CO Oxidation on Ni/YSZ Pattern Anodes. ECS Transactions, 2011, 35, 1743-1751.	0.3	3
142	Performance of MIEC Cathodes in SOFC Stacks Evaluated by Means of FEM Modeling. ECS Transactions, 2014, 61, 191-201.	0.3	3
143	How Sulfur Tolerance of Two-Layered Ni/YSZ Anodes is Governed by Variations in Microstructure and Thickness. ECS Transactions, 2017, 78, 1273-1284.	0.3	3
144	Electrochemical Impedance Analysis of Ni/CGO10-Based Electrolyte-Supported Cells. ECS Transactions, 2019, 91, 1985-1992.	0.3	3

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145	Deconvolution of Gas Diffusion Polarization in Ni/Gadolinium-Doped Ceria Fuel Electrodes. ECS Transactions, 2021, 103, 1375-1393.	0.3	3
146	High frequency impedance measurements of sodium solid electrolytes. Journal of the European Ceramic Society, 2022, 42, 3939-3947.	2.8	3
147	Boosting intermediate temperature performance of solid oxide fuel cells via a tri-layer ceria-zirconia-ceria electrolyte. Journal of the American Ceramic Society, 2023, 106, 93-99.	1.9	3
148	Anode supported planar 5-5 cm <sup>2</sup> SrZr <sub>0.5</sub> Ce <sub>0.4</sub> Y <sub>0.1</sub> O <sub>2.95</sub> based solid oxide protonic fuel cells via sequential tape-casting. Solid State Ionics, 2022, 379, 115918.	1.3	3
149	Characterization of Multilayer Anodes for SOFC. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	2
150	Reactions and Transport Pathways in Syngas Fueled Ni/YSZ SOFC Anodes: Experiments and Modeling. ECS Transactions, 2014, 61, 75-83.	0.3	2
151	Electrochemical Performance of Plasma Sprayed Metal Supported Planar Solid Oxide Fuel Cells. ECS Transactions, 2015, 68, 1791-1802.	0.3	2
152	From Microstructure to Performance: A Detailed Multi-Level Study of SOFC Anodes. ECS Transactions, 2019, 91, 1827-1836.	0.3	2
153	Modeling and Simulation Approach for Standardized Testing and Analysis of PEMFC CHP Systems. ECS Transactions, 2006, 1, 453-462.	0.3	1
154	Impedance Spectroscopy for High-Temperature Fuel Cells. , 2012, , 439-467.		1
155	Kinetic Studies on State of the Art Solid Oxide Cells - A Comparison between Hydrogen/Steam and Reformate Fuels. ECS Transactions, 2015, 64, 51-65.	0.3	1
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157	Microstructure and Performance Analysis of Solid Oxide Fuel Cells Co-Sintered on Inert Substrates. ECS Transactions, 2019, 91, 501-509.	0.3	1
158	Performances of Solid Oxide Cells with La <sub>0.97</sub> Ni <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> as Air-Electrodes. Journal of the Electrochemical Society, 2020, 167, 084522.	1.3	1
159	Electro-Chemo-Mechanical Failure in a High-Performance Solid Oxide Cell. ECS Meeting Abstracts, 2021, MA2021-03, 78-78.	0.0	1
160	Testing of solid oxide cells at high current densities. TM Technisches Messen, 2022, 89, 97-106.	0.3	1
161	Processing of Dense Nanocrystalline Zirconia Thin Films by Sol-Gel. Materials Research Society Symposia Proceedings, 2006, 928, 1.	0.1	0
162	Performance Analysis and Development Strategies for Solid Oxide Fuel Cells. IOP Conference Series: Materials Science and Engineering, 2011, 18, 132001.	0.3	0

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163	Transient 3D FEM Model for Mixed Conducting Cathodes. ECS Meeting Abstracts, 2012, , .	0.0	0
164	Increased Performance Stability of SOFC Cathodes by Use of Protective Coatings on Metallic Interconnectors. ECS Meeting Abstracts, 2012, , .	0.0	0
165	Static Performance Model for ASCs with Different Sizes and Its Experimental Validation. ECS Transactions, 2013, 57, 2849-2856.	0.3	0
166	Progress in SolidOxide Technologies: From Fundamentals to Systems - EFCF2018. Fuel Cells, 2019, 19, 310-310.	1.5	0
167	SOC-Stack FEM-Modelling on Different Length Scales. ECS Transactions, 2019, 91, 2075-2087.	0.3	0
168	Deconvolution of Gas Diffusion Polarization in Ni/Gadolinium-Doped Ceria Fuel Electrodes. ECS Meeting Abstracts, 2021, MA2021-03, 57-57.	0.0	0
169	A Non-Isothermal 2D Stationary FEM Model for Hydrocarbon Fueled SOFCs Stack Layers. ECS Meeting Abstracts, 2017, , .	0.0	0
170	Production and Reliability Oriented SOFC Cell and Stack Design. ECS Meeting Abstracts, 2017, , .	0.0	0
171	(Invited) Sulfur Poisoning of Ni-Based SOFC-Anodes â€œ Short and Long Term Behavior. ECS Meeting Abstracts, 2017, , .	0.0	0
172	How Sulfur Tolerance of Two-Layered Ni/YSZ Anodes is Governed by Variations in Microstructure and Thickness. ECS Meeting Abstracts, 2017, , .	0.0	0
173	Multi-Scale Modeling of Cathode Performance in Solid Oxide Fuel Cells (SOFCs). ECS Meeting Abstracts, 2017, , .	0.0	0
174	Evaluation of PEMFC Impedance Spectra By Using the Distribution of Relaxation Times. ECS Meeting Abstracts, 2018, , .	0.0	0
175	Analysis of Temperature Gradients in Lithium-Ion Batteries By Electrothermal Impedance Spectroscopy (ETIS). ECS Meeting Abstracts, 2018, , .	0.0	0
176	Multi-Scale Characterization of Lithium Ion Battery Cathodes. ECS Meeting Abstracts, 2018, , .	0.0	0
177	(Invited) Performance and Stability of Mixed Conducting SOFC-Cathodes at High and Low Operating Temperatures. ECS Meeting Abstracts, 2019, , .	0.0	0
178	Correlative Multiscale Tomography on Inert Supported Solid Oxide Fuel Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
179	3D Analysis of Observed and Simulated Microstructure Evolution in SOFC Anodes. ECS Meeting Abstracts, 2019, , .	0.0	0
180	Garnet-Type Li7La3Zr2O12 / Lithium Metal Interface: Microstructure and Electrochemical Properties in Solid State Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 289-289.	0.0	0

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181	(Invited) Designing SOC for Power-to-X Applications: A Multi-Physical Modelling Approach. ECS Meeting Abstracts, 2020, MA2020-01, 1446-1446.	0.0	0
182	Generation of Virtual Microstructures for the Optimization of Lithium-Ion Battery Cathodes. ECS Meeting Abstracts, 2020, MA2020-01, 142-142.	0.0	0
183	Microstructural Analysis of Lithium-Ion Battery Cathodes Using Tomography Methods - Possibilities and Limitations. ECS Meeting Abstracts, 2020, MA2020-01, 192-192.	0.0	0
184	Influence of Three-Dimensional Flow Field Structures Consisting of Expanded Metal Meshes on the Physicochemical Loss Processes in Pemfcs. ECS Meeting Abstracts, 2022, MA2022-01, 1424-1424.	0.0	0
185	Impedance-Based, Multi-Physical DC-Performance-Model for a PEMFC Stack. ECS Meeting Abstracts, 2022, MA2022-01, 1959-1959.	0.0	0
186	Spatially Resolved Deconvolution of Loss Processes in PEM Fuel Cells. ECS Meeting Abstracts, 2022, MA2022-01, 1439-1439.	0.0	0
187	(Invited, Digital Presentation) Impedance Analysis of Porous Electrodes in Solid Oxide and Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2022, MA2022-01, 1652-1652.	0.0	0