

Mogens B Mogensen

List of Publications by Year in descending order

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259
papers

22,100
citations

9234

74
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9073

144
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267
all docs

267
docs citations

267
times ranked

10767
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical, chemical and electrochemical properties of pure and doped ceria. <i>Solid State Ionics</i> , 2000, 129, 63-94.	1.3	1,895
2	Advanced anodes for high-temperature fuel cells. <i>Nature Materials</i> , 2004, 3, 17-27.	13.3	1,315
3	Sustainable hydrocarbon fuels by recycling CO ₂ and H ₂ O with renewable or nuclear energy. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1-23.	8.2	932
4	Evolution of the electrochemical interface in high-temperature fuel cells and electrolyzers. <i>Nature Energy</i> , 2016, 1, .	19.8	557
5	Recent advances in solid oxide cell technology for electrolysis. <i>Science</i> , 2020, 370, .	6.0	505
6	Impedance of Solid Oxide Fuel Cell LSM/YSZ Composite Cathodes. <i>Journal of the Electrochemical Society</i> , 2001, 148, A433.	1.3	467
7	High Temperature Electrolysis in Alkaline Cells, Solid Proton Conducting Cells, and Solid Oxide Cells. <i>Chemical Reviews</i> , 2014, 114, 10697-10734.	23.0	459
8	Hydrogen and synthetic fuel production from renewable energy sources. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3253-3257.	3.8	447
9	Electrolysis of carbon dioxide in Solid Oxide Electrolysis Cells. <i>Journal of Power Sources</i> , 2009, 193, 349-358.	4.0	394
10	Eliminating degradation in solid oxide electrochemical cells by reversible operation. <i>Nature Materials</i> , 2015, 14, 239-244.	13.3	394
11	Electrochemical Characterization of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ Cathodes for Intermediate-Temperature SOFCs. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1847.	1.3	378
12	Co-electrolysis of CO ₂ and H ₂ O in solid oxide cells: Performance and durability. <i>Solid State Ionics</i> , 2011, 192, 398-403.	1.3	351
13	Gas Diffusion Impedance in Characterization of Solid Oxide Fuel Cell Anodes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 2827-2833.	1.3	306
14	Structure/Performance Relations for Ni/Yttria-Stabilized Zirconia Anodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2000, 147, 475.	1.3	304
15	Physical Properties of Mixed Conductor Solid Oxide Fuel Cell Anodes of Doped CeO ₂ . <i>Journal of the Electrochemical Society</i> , 1994, 141, 2122-2128.	1.3	282
16	Solid Oxide Electrolysis Cells: Degradation at High Current Densities. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1209.	1.3	275
17	Gas Conversion Impedance: A Test Geometry Effect in Characterization of Solid Oxide Fuel Cell Anodes. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2431-2438.	1.3	269
18	High-performance lanthanum-ferrite-based cathode for SOFC. <i>Solid State Ionics</i> , 2005, 176, 457-462.	1.3	263

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19	Detailed Characterization of Anode-Supported SOFCs by Impedance Spectroscopy. Journal of the Electrochemical Society, 2007, 154, B371.	1.3	262
20	Solid Oxide Electrolysis Cells: Microstructure and Degradation of the Ni/Yttria-Stabilized Zirconia Electrode. Journal of the Electrochemical Society, 2008, 155, B1184.	1.3	261
21	Oxidation of Hydrogen on Ni/Yttria-Stabilized Zirconia Cermet Anodes. Journal of the Electrochemical Society, 1997, 144, 3409-3419.	1.3	251
22	Manganite-zirconia composite cathodes for SOFC: Influence of structure and composition. Electrochimica Acta, 1995, 40, 1971-1981.	2.6	235
23	Large-scale electricity storage utilizing reversible solid oxide cells combined with underground storage of CO ₂ and CH ₄ . Energy and Environmental Science, 2015, 8, 2471-2479.	15.6	229
24	Performance/structure correlation for composite SOFC cathodes. Journal of Power Sources, 1996, 61, 173-181.	4.0	220
25	Conductivity of A- and B-site doped LaAlO ₃ , LaGaO ₃ , LaScO ₃ and LaInO ₃ perovskites. Solid State Ionics, 2000, 128, 91-103.	1.3	218
26	Kinetic and geometric aspects of solid oxide fuel cell electrodes. Solid State Ionics, 1996, 86-88, 1151-1160.	1.3	214
27	Factors controlling the oxide ion conductivity of fluorite and perovskite structured oxides. Solid State Ionics, 2004, 174, 279-286.	1.3	213
28	A solid oxide fuel cell with a gadolinia-doped ceria anode: preparation and performance. Solid State Ionics, 1999, 123, 199-208.	1.3	212
29	Performance and Durability of Solid Oxide Electrolysis Cells. Journal of the Electrochemical Society, 2006, 153, A1741.	1.3	202
30	Geometric Requirements of Solid Electrolyte Cells with a Reference Electrode. Journal of the Electrochemical Society, 1998, 145, 1184-1192.	1.3	197
31	Production of Synthetic Fuels by Co-Electrolysis of Steam and Carbon Dioxide. International Journal of Green Energy, 2009, 6, 646-660.	2.1	192
32	Conversion of Hydrocarbons in Solid Oxide Fuel Cells. Annual Review of Materials Research, 2003, 33, 321-331.	4.3	190
33	Chemical Expansion: Implications for Electrochemical Energy Storage and Conversion Devices. Annual Review of Materials Research, 2014, 44, 205-239.	4.3	188
34	Oxygen nonstoichiometry and transport properties of strontium substituted lanthanum ferrite. Journal of Solid State Chemistry, 2007, 180, 1489-1503.	1.4	183
35	A Method to Separate Process Contributions in Impedance Spectra by Variation of Test Conditions. Journal of the Electrochemical Society, 2007, 154, B1325.	1.3	175
36	Prospects and problems of dense oxygen permeable membranes. Catalysis Today, 2000, 56, 283-295.	2.2	172

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37	Hydrogen and synthetic fuel production using pressurized solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9544-9549.	3.8	172
38	Progress in understanding SOFC electrodes. <i>Solid State Ionics</i> , 2002, 150, 123-129.	1.3	169
39	Effect of sintering temperature on microstructure and performance of LSM-YSZ composite cathodes. <i>Solid State Ionics</i> , 2001, 139, 1-11.	1.3	166
40	Durable SOC stacks for production of hydrogen and synthesis gas by high temperature electrolysis. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7363-7373.	3.8	156
41	Ni/YSZ electrodes structures optimized for increased electrolysis performance and durability. <i>Solid State Ionics</i> , 2016, 293, 27-36.	1.3	155
42	Defect and electrical transport properties of Nb-doped SrTiO ₃ . <i>Solid State Ionics</i> , 2008, 179, 2047-2058.	1.3	153
43	Reversible solid-oxide cells for clean and sustainable energy. <i>Clean Energy</i> , 2019, 3, 175-201.	1.5	153
44	Cellulose as a binding material in graphitic anodes for Li ion batteries: a performance and degradation study. <i>Electrochimica Acta</i> , 2003, 48, 883-889.	2.6	152
45	Co-Electrolysis of Steam and Carbon Dioxide in Solid Oxide Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, F482-F489.	1.3	148
46	Silica Segregation in the Ni-YSZ Electrode. <i>Journal of the Electrochemical Society</i> , 2007, 154, A619.	1.3	137
47	Thermodynamic analysis of synthetic hydrocarbon fuel production in pressurized solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17101-17110.	3.8	134
48	High-temperature conversion of methane on a composite gadolinia-doped ceria-gold electrode. <i>Applied Catalysis A: General</i> , 1999, 189, 117-126.	2.2	133
49	Poisoning of Solid Oxide Electrolysis Cells by Impurities. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1419.	1.3	122
50	Characterisation of composite SOFC cathodes using electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 1999, 44, 4195-4201.	2.6	121
51	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. <i>ACS Catalysis</i> , 2017, 7, 5399-5409.	5.5	120
52	ac Impedance study of the oxygen reduction mechanism on La _{1-x} Sr _x MnO ₃ in solid oxide fuel cells. <i>Electrochimica Acta</i> , 1993, 38, 2015-2020.	2.6	119
53	Electrochemical performance and degradation of (La _{0.6} Sr _{0.4}) _{0.99} CoO ₃ as porous SOFC-cathode. <i>Solid State Ionics</i> , 2008, 179, 1422-1426.	1.3	119
54	The Mechanism Behind Redox Instability of Anodes in High-Temperature SOFCs. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2186.	1.3	115

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55	Mechanical properties of NiO/Ni ⁰ -YSZ composites depending on temperature, porosity and redox cycling. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1657-1664.	2.8	112
56	Carbon Deposition in Solid Oxide Cells during Co-Electrolysis of H ₂ O and CO ₂ . <i>Journal of the Electrochemical Society</i> , 2014, 161, F337-F343.	1.3	111
57	Effects of impurities on microstructure in Ni/YSZ ⁰ -YSZ half-cells for SOFC. <i>Solid State Ionics</i> , 2003, 161, 1-10.	1.3	106
58	Electrical conductivity of Ni ⁰ -YSZ composites: Degradation due to Ni particle growth. <i>Solid State Ionics</i> , 2011, 189, 82-90.	1.3	99
59	Trends in Stability of Perovskite Oxides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7699-7701.	7.2	98
60	Redox stability of SOFC: Thermal analysis of Ni ⁰ -YSZ composites. <i>Solid State Ionics</i> , 2009, 180, 1100-1112.	1.3	97
61	Break Down of Losses in Thin Electrolyte SOFCs. <i>Fuel Cells</i> , 2006, 6, 141-145.	1.5	93
62	Relation Between Ni Particle Shape Change and Ni Migration in Ni ⁰ -YSZ Electrodes – a Hypothesis. <i>Fuel Cells</i> , 2017, 17, 434-441.	1.5	93
63	Reaction of CO/CO ₂ gas mixtures on Ni ⁰ -YSZ cermet electrodes. <i>Journal of Applied Electrochemistry</i> , 1999, 29, 561-568.	1.5	92
64	Oxygen nonstoichiometry and transport properties of strontium substituted lanthanum cobaltite. <i>Solid State Ionics</i> , 2006, 177, 3285-3296.	1.3	92
65	Mixed conductor anodes: Ni as electrocatalyst for hydrogen conversion. <i>Solid State Ionics</i> , 2002, 152-153, 597-608.	1.3	88
66	Ni ⁰ -YSZ Solid Oxide Fuel Cell Anode Behavior Upon Redox Cycling Based on Electrical Characterization. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3582-3588.	1.9	87
67	Investigations of metallic alloys for use as interconnects in solid oxide fuel cell stacks. <i>Journal of Materials Science</i> , 1996, 31, 5077-5082.	1.7	85
68	Generalized trends in the formation energies of perovskite oxides. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7526.	1.3	85
69	Electrochemical characterization and redox behavior of Nb-doped SrTiO ₃ . <i>Solid State Ionics</i> , 2009, 180, 63-70.	1.3	81
70	Size of oxide vacancies in fluorite and perovskite structured oxides. <i>Journal of Electroceramics</i> , 2015, 34, 100-107.	0.8	81
71	Degradation of solid oxide cells during co-electrolysis of steam and carbon dioxide at high current densities. <i>Journal of Power Sources</i> , 2016, 328, 452-462.	4.0	78
72	H ₂ -H ₂ O-Ni-YSZ Electrode Performance. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1436.	1.3	77

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73	Electrical conductivities and chemical stabilities of mixed conducting pyrochlores for SOFC applications. <i>Solid State Ionics</i> , 2000, 135, 675-679.	1.3	76
74	SOFC LSM:YSZ cathode degradation induced by moisture: An impedance spectroscopy study. <i>Solid State Ionics</i> , 2011, 189, 74-81.	1.3	76
75	Effect of impurities on structural and electrochemical properties of the Ni/YSZ interface. <i>Solid State Ionics</i> , 2003, 160, 27-37.	1.3	74
76	Materials for reversible solid oxide cells. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 265-273.	2.5	72
77	Composite Electrodes in Solid Oxide Fuel Cells and Similar Solid State Devices. , 2000, 5, 141-152.		69
78	Understanding the processes governing performance and durability of solid oxide electrolysis cells. <i>Faraday Discussions</i> , 2015, 182, 393-422.	1.6	68
79	Microstructural and chemical changes at the Ni/YSZ interface. <i>Solid State Ionics</i> , 2001, 144, 197-209.	1.3	66
80	In Situ Observations of Microstructural Changes in SOFC Anodes during Redox Cycling. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A403.	2.2	65
81	Durability of Solid Oxide Electrolysis Cells for Syngas Production. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1074-F1080.	1.3	65
82	Effect of Heat Treatment on the Lithium Ion Conduction of the LiBH ₄ -LiI Solid Solution. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3249-3257.	1.5	65
83	A study on the structural and electrical properties of lanthanum-doped strontium titanate prepared in air. <i>Journal of Alloys and Compounds</i> , 2005, 397, 245-249.	2.8	64
84	La _{0.99} Co _{0.4} Ni _{0.6} O _{3-δ} -Ce _{0.8} Gd _{0.2} O _{1.95} as composite cathode for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7237-7244.	4.0	64
85	Dimensional stability and defect chemistry of doped lanthanum chromites. <i>Journal of Theoretical Biology</i> , 1997, 49, 1263-1275.	0.8	63
86	Ni migration in solid oxide cell electrodes: Review and revised hypothesis. <i>Fuel Cells</i> , 2021, 21, 415-429.	1.5	63
87	Solid Oxide Fuel Cell Performance under Severe Operating Conditions. <i>Fuel Cells</i> , 2006, 6, 130-136.	1.5	61
88	Structural properties and electrochemical performance of strontium- and nickel-substituted lanthanum cobaltite. <i>Solid State Ionics</i> , 2008, 179, 636-646.	1.3	60
89	Alkaline electrolysis cell at high temperature and pressure of 250°C and 42 Åbar. <i>Journal of Power Sources</i> , 2013, 229, 22-31.	4.0	59
90	A Study of Metal (Ni, Pt, Au)/Yttria-Stabilized Zirconia Interface in Hydrogen Atmosphere at Elevated Temperature. <i>Journal of the Electrochemical Society</i> , 2001, 148, A878.	1.3	58

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91	Ni/YSZ electrode degradation studied by impedance spectroscopy – Effect of p(H ₂ O). Solid State Ionics, 2011, 192, 547-551.	1.3	58
92	Understanding degradation of solid oxide electrolysis cells through modeling of electrochemical potential profiles. Electrochimica Acta, 2016, 189, 265-282.	2.6	58
93	Electrochemical Characterization of Ceramic SOFC Anodes. Journal of the Electrochemical Society, 2001, 148, A923.	1.3	57
94	Planar Metal-Supported SOFC with Novel Cermet Anode. Fuel Cells, 2011, 11, 661-668.	1.5	57
95	Concerning the development of grain face bubbles and fission gas release in UO ₂ fuel. Journal of Nuclear Materials, 1988, 160, 10-23.	1.3	56
96	A study of Pr _{0.7} Sr _{0.3} Fe _{1-x} Ni _x O _{3-δ} as a cathode material for SOFCs with intermediate operating temperature. Solid State Ionics, 2005, 176, 1013-1020.	1.3	56
97	Morphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Point Electrode. Journal of the Electrochemical Society, 1998, 145, 2244-2252.	1.3	54
98	Electrical conductivity measurements of aqueous and immobilized potassium hydroxide. International Journal of Hydrogen Energy, 2012, 37, 16505-16514.	3.8	54
99	Continuum mechanics simulations of NiO/Ni-YSZ composites during reduction and re-oxidation. Journal of Power Sources, 2010, 195, 2677-2690.	4.0	51
100	Electrochemical behaviour of (La _{1-x} Sr _x) ₂ Co _{1-y} Ni _y O _{3-δ} as porous SOFC cathodes. Solid State Ionics, 2009, 180, 1395-1405.	1.3	50
101	Exceptional Durability of Solid Oxide Cells. Electrochemical and Solid-State Letters, 2010, 13, B106.	2.2	50
102	Durability and thermal cycling of Ni/YSZ cermet anodes for solid oxide fuel cells. Journal of Applied Electrochemistry, 2000, 30, 247-257.	1.5	49
103	Dimensional Behavior of Ni-YSZ Composites during Redox Cycling. Journal of the Electrochemical Society, 2009, 156, B322.	1.3	49
104	Electrochemical Characterization of Ni/ScYSZ Electrodes as SOFC Anodes. Journal of the Electrochemical Society, 2014, 161, F434-F444.	1.3	49
105	Temperature measurements in high burnup UO ₂ nuclear fuel: Implications for thermal conductivity, grain growth and gas release. Journal of Nuclear Materials, 1994, 211, 11-29.	1.3	48
106	Degradation in Solid Oxide Electrolysis Cells During Long Term Testing. Fuel Cells, 2019, 19, 740-747.	1.5	48
107	Effects of Sr/Ti-ratio in SrTiO ₃ -based SOFC anodes investigated by the use of cone-shaped electrodes. Electrochimica Acta, 2006, 52, 1651-1661.	2.6	47
108	Conductivity of SrTiO ₃ based oxides in the reducing atmosphere at high temperature. Journal of Alloys and Compounds, 2007, 439, 232-236.	2.8	47

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109	Effect of electrode material on the oxidation of H ₂ at the metal/Sr _{0.995} Ce _{0.95} Y _{0.05} O _{2.970} interface. <i>Solid State Ionics</i> , 2000, 131, 249-259.	1.3	46
110	Preparation and Characterization of Copper/Yttria Titania Zirconia Cermets for Use as Possible Solid Oxide Fuel Cell Anodes. <i>Fuel Cells</i> , 2001, 1, 211-218.	1.5	45
111	Conductivity and expansion at high temperature in Sr _{0.7} La _{0.3} TiO ₃ prepared under reducing atmosphere. <i>Journal of Electroceramics</i> , 2006, 16, 103-107.	0.8	45
112	Behaviour of fission gas in the rim region of high burn-up UO ₂ fuel pellets with particular reference to results from an XRF investigation. <i>Journal of Nuclear Materials</i> , 1999, 264, 99-112.	1.3	44
113	TOF-SIMS studies of yttria-stabilised zirconia. <i>Surface and Interface Analysis</i> , 2006, 38, 911-916.	0.8	42
114	Towards Quantification of Relations Between Electrode Polarisation and Microstructure. <i>Journal of the Electrochemical Society</i> , 2011, 158, B814.	1.3	39
115	Observations on the release of cesium from UO ₂ fuel. <i>Journal of Nuclear Materials</i> , 1996, 240, 32-42.	1.3	38
116	Electrode Activation and Passivation of Solid Oxide Fuel Cell Electrodes. <i>Fuel Cells</i> , 2006, 6, 117-122.	1.5	34
117	Nanoscale Chemical Analysis and Imaging of Solid Oxide Cells. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, B38.	2.2	34
118	An experimental study of the distribution of retained xenon in transient-tested UO ₂ fuel. <i>Journal of Nuclear Materials</i> , 1993, 199, 85-101.	1.3	33
119	Synthesis of Nb-doped SrTiO ₃ by a modified glycine-nitrate process. <i>Journal of the European Ceramic Society</i> , 2007, 27, 3609-3612.	2.8	33
120	Advanced Test Method of Solid Oxide Cells in a Plug-Flow Setup. <i>Journal of the Electrochemical Society</i> , 2009, 156, B757.	1.3	33
121	Performance Characterization of Solid Oxide Cells Under High Pressure. <i>Fuel Cells</i> , 2015, 15, 697-702.	1.5	33
122	Electrochemical removal of NO _x with porous cell stacks. <i>Materials Research Bulletin</i> , 2010, 45, 1554-1561.	2.7	32
123	Ni/YSZ anode Effect of pre-treatments on cell degradation and microstructures. <i>Journal of Power Sources</i> , 2011, 196, 8931-8941.	4.0	32
124	Preparation of nanocrystalline YSZ powders by the plasma technique. <i>Journal of Materials Science</i> , 1998, 33, 723-728.	1.7	31
125	Ni/YSZ electrode degradation studied by impedance spectroscopy Effects of gas cleaning and current density. <i>Solid State Ionics</i> , 2010, 181, 745-753.	1.3	31
126	Local fission gas release and swelling in water reactor fuel during slow power transients. <i>Journal of Nuclear Materials</i> , 1985, 131, 162-171.	1.3	30

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127	Effects of trace elements at the Ni/ScYSZ interface in a model solid oxide fuel cell anode. Solid State Ionics, 2008, 179, 1436-1441.	1.3	29
128	Three-phase-boundary dynamics at the Ni/ScYSZ interface. Solid State Ionics, 2009, 180, 431-438.	1.3	29
129	Reactions at the Calcium Doped Lanthanum Chromite–Yttria Stabilized Zirconia Interface. Journal of Solid State Chemistry, 1996, 122, 407-415.	1.4	28
130	Characterization of $(\text{La}_{1-x}\text{Sr}_x)\text{MnO}_3$ and Doped Ceria Composite Electrodes in NO_x -Containing Atmosphere with Impedance Spectroscopy. Journal of the Electrochemical Society, 2010, 157, P35.	1.3	28
131	Modifications of interface chemistry of LSM–YSZ composite by ceria nanoparticles. Solid State Ionics, 2011, 195, 36-42.	1.3	27
132	Thermoneutral Operation of Solid Oxide Electrolysis Cells in Potentiostatic Mode. ECS Transactions, 2017, 78, 3077-3088.	0.3	27
133	A Critical Review of Models of the $\text{H}_2/\text{H}_2\text{O}/\text{Ni}/\text{SZ}$ Electrode Kinetics. ECS Transactions, 2007, 7, 1329-1338.	0.3	26
134	The Effect of a CGO Barrier Layer on the Performance of LSM/YSZ SOFC Cathodes. Journal of the Electrochemical Society, 2010, 157, B309.	1.3	26
135	Impurity features in Ni-YSZ- H_2 - H_2O electrodes. Solid State Ionics, 2011, 183, 60-70.	1.3	26
136	H_2 oxidation at the interface Ni/Sr _{0.995} Ce _{0.95} Y _{0.05} O _{2.975} . Solid State Ionics, 1997, 97, 483-488.	1.3	25
137	The Effect of Humidity and Oxygen Partial Pressure on LSM–YSZ Cathode. Fuel Cells, 2011, 11, 669-677.	1.5	25
138	Nanostructured Lanthanum Manganate Composite Cathode. Electrochemical and Solid-State Letters, 2005, 8, A619.	2.2	24
139	Effect of impregnation of $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3$ /yttria stabilized zirconia solid oxide fuel cell cathodes with $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3$ or Al_2O_3 nano-particles. Electrochimica Acta, 2010, 55, 4606-4609.	2.6	24
140	Electrochemical Characterization of Ni/(Sc)YSZ Electrodes. ECS Transactions, 2010, 28, 123-139.	0.3	24
141	Surface recrystallization – an underestimated phenomenon affecting oxygen exchange activity. Journal of Materials Chemistry A, 2019, 7, 11782-11791.	5.2	24
142	On the rate determining step in fission gas release from high burn-up water reactor fuel during power transients. Journal of Nuclear Materials, 1987, 149, 121-131.	1.3	23
143	Kinetics of CO/CO_2 and $\text{H}_2/\text{H}_2\text{O}$ reactions at Ni-based and ceria-based solid-oxide-cell electrodes. Faraday Discussions, 2015, 182, 75-95.	1.6	23
144	Effects of Strong Cathodic Polarization of the Ni-YSZ Interface. Journal of the Electrochemical Society, 2016, 163, F1217-F1227.	1.3	22

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145	Current understanding of ceria surfaces for CO ₂ reduction in SOECs and future prospects – A review. <i>Solid State Ionics</i> , 2022, 375, 115833.	1.3	22
146	The anodic dissolution of iron – X. Etching-dependent behaviour of annealed iron in moderately acid to neutral chloride solutions. <i>Electrochimica Acta</i> , 1980, 25, 919-929.	2.6	21
147	Comment on – “The characterization of doped CeO ₂ electrodes in solid oxide fuel cells” by B.G. Pound, <i>Solid State Ionics</i> 52 (1992) 183 – 188. <i>Solid State Ionics</i> , 1993, 61, 277-279.	1.3	21
148	X-ray diffraction investigation of phase stability in the Co – Cr – O and the Fe – Co – Cr – O systems in air at 1323K. <i>Journal of Alloys and Compounds</i> , 2005, 402, 194-200.	2.8	21
149	Time-of-flight secondary ion mass spectrometry as a tool for studying segregation phenomena at nickel – YSZ interfaces. <i>Journal of the European Ceramic Society</i> , 2006, 26, 967-980.	2.8	21
150	Inter-diffusion between Co ₃ O ₄ coatings and the oxide scale on Fe-22Cr. <i>Journal of Alloys and Compounds</i> , 2007, 433, 193-201.	2.8	20
151	Reduction reactions in doped ceria ceramics studied by dilatometry. <i>Thermochimica Acta</i> , 1993, 214, 47-50.	1.2	19
152	Energy labelling of glazings and windows in Denmark: calculated and measured values. <i>Solar Energy</i> , 2002, 73, 23-31.	2.9	19
153	Conductivity and electrochemical characterization of PrFe _{1-x} Ni _x O ₃ at high temperature. <i>Journal of Alloys and Compounds</i> , 2007, 428, 256-261.	2.8	19
154	Complementary techniques for solid oxide electrolysis cell characterisation at the micro- and nano-scale. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5053-5060.	3.8	19
155	Oxygen incorporation in porous thin films of strontium doped lanthanum ferrite. <i>Journal of Electroceramics</i> , 2011, 27, 134-142.	0.8	19
156	Modeling Degradation in SOEC Impedance Spectra. <i>Journal of the Electrochemical Society</i> , 2013, 160, F244-F250.	1.3	19
157	Electrochemical Impedance Modeling of a Solid Oxide Fuel Cell Anode. <i>Fuel Cells</i> , 2014, 14, 645-659.	1.5	19
158	High Temperature Alkaline Electrolysis Cells with Metal Foam Based Gas Diffusion Electrodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3036-F3040.	1.3	19
159	Electrochemical Characterization of a PEMEC Using Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1419-F1426.	1.3	19
160	Kinetics of Oxidation of H ₂ and Reduction of H ₂ O in Ni-YSZ based Solid Oxide Cells. <i>ECS Transactions</i> , 2013, 50, 167-182.	0.3	18
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254	(Invited) A New Method for Combining P2X and Electricity-Balancing Using SOECs. ECS Meeting Abstracts, 2020, MA2020-01, 1452-1452.	0.0	0
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257	(Invited) A New Method for Combining P2X and Electricity-Balancing Using SOECs. ECS Meeting Abstracts, 2020, MA2020-02, 2553-2553.	0.0	0
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