

Mogens B Mogensen

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247
papers

18,149
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130
g-index

267
ext. papers

19,829
ext. citations

4.8
avg, IF

6.95
L-index

#	Paper	IF	Citations
247	Physical, chemical and electrochemical properties of pure and doped ceria. <i>Solid State Ionics</i> , 2000 , 129, 63-94	3.3	1664
246	Advanced anodes for high-temperature fuel cells. <i>Nature Materials</i> , 2004 , 3, 17-27	27	1203
245	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	16.2	761
244	Impedance of Solid Oxide Fuel Cell LSM/YSZ Composite Cathodes. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A433	3.9	426
243	Evolution of the electrochemical interface in high-temperature fuel cells and electrolyzers. <i>Nature Energy</i> , 2016 , 1,	62.3	418
242	Hydrogen and synthetic fuel production from renewable energy sources. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3253-3257	6.7	389
241	High temperature electrolysis in alkaline cells, solid proton conducting cells, and solid oxide cells. <i>Chemical Reviews</i> , 2014 , 114, 10697-734	68.1	339
240	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	3.9	337
239	Electrolysis of carbon dioxide in Solid Oxide Electrolysis Cells. <i>Journal of Power Sources</i> , 2009 , 193, 349-358	3.8	327
238	Eliminating degradation in solid oxide electrochemical cells by reversible operation. <i>Nature Materials</i> , 2015 , 14, 239-44	27	296
237	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	3.3	288
236	Gas Diffusion Impedance in Characterization of Solid Oxide Fuel Cell Anodes. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2827-2833	3.9	267
235	Structure/Performance Relations for Ni/Yttria-Stabilized Zirconia Anodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 475	3.9	264
234	Detailed Characterization of Anode-Supported SOFCs by Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B371	3.9	235
233	High-performance lanthanum-ferrite-based cathode for SOFC. <i>Solid State Ionics</i> , 2005 , 176, 457-462	3.3	232
232	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	3.9	232
231	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	3.9	225

230	Solid Oxide Electrolysis Cells: Degradation at High Current Densities. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1209	3.9	221
229	Oxidation of Hydrogen on Ni/Yttria-Stabilized Zirconia Cermet Anodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3409-3419	3.9	211
228	Solid Oxide Electrolysis Cells: Microstructure and Degradation of the Ni/Yttria-Stabilized Zirconia Electrode. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B1184	3.9	207
227	Kinetic and geometric aspects of solid oxide fuel cell electrodes. <i>Solid State Ionics</i> , 1996 , 86-88, 1151-1160	3.9	196
226	Manganite-zirconia composite cathodes for SOFC: Influence of structure and composition. <i>Electrochimica Acta</i> , 1995 , 40, 1971-1981	6.7	181
225	Large-scale electricity storage utilizing reversible solid oxide cells combined with underground storage of CO ₂ and CH ₄ . <i>Energy and Environmental Science</i> , 2015 , 8, 2471-2479	35.4	179
224	Factors controlling the oxide ion conductivity of fluorite and perovskite structured oxides. <i>Solid State Ionics</i> , 2004 , 174, 279-286	3.3	179
223	Conductivity of A- and B-site doped LaAlO ₃ , LaGaO ₃ , LaScO ₃ and LaInO ₃ perovskites. <i>Solid State Ionics</i> , 2000 , 128, 91-103	3.3	179
222	A solid oxide fuel cell with a gadolinia-doped ceria anode: preparation and performance. <i>Solid State Ionics</i> , 1999 , 123, 199-208	3.3	179
221	Performance/structure correlation for composite SOFC cathodes. <i>Journal of Power Sources</i> , 1996 , 61, 173-181	8.9	178
220	Performance and Durability of Solid Oxide Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1741	3.9	168
219	Conversion of Hydrocarbons in Solid Oxide Fuel Cells. <i>Annual Review of Materials Research</i> , 2003 , 33, 321-331	12.8	162
218	Production of Synthetic Fuels by Co-Electrolysis of Steam and Carbon Dioxide. <i>International Journal of Green Energy</i> , 2009 , 6, 646-660	3	160
217	Geometric Requirements of Solid Electrolyte Cells with a Reference Electrode. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 1184-1192	3.9	159
216	Oxygen nonstoichiometry and transport properties of strontium substituted lanthanum ferrite. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1489-1503	3.3	158
215	A Method to Separate Process Contributions in Impedance Spectra by Variation of Test Conditions. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1325	3.9	152
214	Chemical Expansion: Implications for Electrochemical Energy Storage and Conversion Devices. <i>Annual Review of Materials Research</i> , 2014 , 44, 205-239	12.8	150
213	Recent advances in solid oxide cell technology for electrolysis. <i>Science</i> , 2020 , 370,	33.3	149

212	Hydrogen and synthetic fuel production using pressurized solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9544-9549	6.7	148
211	Effect of sintering temperature on microstructure and performance of LSM/YSZ composite cathodes. <i>Solid State Ionics</i> , 2001 , 139, 1-11	3.3	148
210	Prospects and problems of dense oxygen permeable membranes. <i>Catalysis Today</i> , 2000 , 56, 283-295	5.3	147
209	Progress in understanding SOFC electrodes. <i>Solid State Ionics</i> , 2002 , 150, 123-129	3.3	137
208	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	6.7	136
207	Defect and electrical transport properties of Nb-doped SrTiO ₃ . <i>Solid State Ionics</i> , 2008 , 179, 2047-2058	3.3	128
206	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	6.7	127
205	Co-Electrolysis of Steam and Carbon Dioxide in Solid Oxide Cells. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F482-F489	3.9	123
204	Silica Segregation in the Ni/YSZ Electrode. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A619	3.9	120
203	High-temperature conversion of methane on a composite gadolinia-doped ceria/gold electrode. <i>Applied Catalysis A: General</i> , 1999 , 189, 117-126	5.1	120
202	Thermodynamic analysis of synthetic hydrocarbon fuel production in pressurized solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17101-17110	6.7	112
201	Ni/YSZ electrodes structures optimized for increased electrolysis performance and durability. <i>Solid State Ionics</i> , 2016 , 293, 27-36	3.3	111
200	Electrochemical performance and degradation of (La _{0.6} Sr _{0.4}) _{0.99} CoO ₃ based porous SOFC-cathode. <i>Solid State Ionics</i> , 2008 , 179, 1422-1426	3.3	105
199	The Mechanism Behind Redox Instability of Anodes in High-Temperature SOFCs. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2186	3.9	105
198	Characterisation of composite SOFC cathodes using electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 1999 , 44, 4195-4201	6.7	105
197	Poisoning of Solid Oxide Electrolysis Cells by Impurities. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1419	3.9	100
196	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	6.7	98
195	Effects of impurities on microstructure in Ni/YSZ/YSZ half-cells for SOFC. <i>Solid State Ionics</i> , 2003 , 161, 1-10	3.3	97

194	Mechanical properties of NiO/Ni λ YSZ composites depending on temperature, porosity and redox cycling. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 1657-1664	6	91
193	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	13.1	88
192	Redox stability of SOFC: Thermal analysis of Ni λ YSZ composites. <i>Solid State Ionics</i> , 2009 , 180, 1100-1112	3.3	87
191	Break Down of Losses in Thin Electrolyte SOFCs. <i>Fuel Cells</i> , 2006 , 6, 141-145	2.9	87
190	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	3.9	84
189	Electrical conductivity of Ni λ YSZ composites: Degradation due to Ni particle growth. <i>Solid State Ionics</i> , 2011 , 189, 82-90	3.3	82
188	Mixed conductor anodes: Ni as electrocatalyst for hydrogen conversion. <i>Solid State Ionics</i> , 2002 , 152-153, 597-608	3.3	80
187	Trends in stability of perovskite oxides. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7699-701	16.4	79
186	Ni λ 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	3.8	77
185	Reaction of CO/CO ₂ gas mixtures on Ni λ YSZ cermet electrodes. <i>Journal of Applied Electrochemistry</i> , 1999 , 29, 561-568	2.6	75
184	Electrochemical characterization and redox behavior of Nb-doped SrTiO ₃ . <i>Solid State Ionics</i> , 2009 , 180, 63-70	3.3	73
183	Oxygen nonstoichiometry and transport properties of strontium substituted lanthanum cobaltite. <i>Solid State Ionics</i> , 2006 , 177, 3285-3296	3.3	73
182	Electrical conductivities and chemical stabilities of mixed conducting pyrochlores for SOFC applications. <i>Solid State Ionics</i> , 2000 , 135, 675-679	3.3	72
181	H ₂ -H ₂ O-Ni-YSZ Electrode Performance. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1436	3.9	71
180	Investigations of metallic alloys for use as interconnects in solid oxide fuel cell stacks. <i>Journal of Materials Science</i> , 1996 , 31, 5077-5082	4.3	69
179	Relation Between Ni Particle Shape Change and Ni Migration in Ni λ YSZ Electrodes λ Hypothesis. <i>Fuel Cells</i> , 2017 , 17, 434-441	2.9	67
178	Generalized trends in the formation energies of perovskite oxides. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7526-33	3.6	67
177	Reversible solid-oxide cells for clean and sustainable energy. <i>Clean Energy</i> , 2019 , 3, 175-201	4.7	63

176	SOFC LSM:YSZ cathode degradation induced by moisture: An impedance spectroscopy study. <i>Solid State Ionics</i> , 2011 , 189, 74-81	3.3	63
175	Effect of impurities on structural and electrochemical properties of the Ni/YSZ interface. <i>Solid State Ionics</i> , 2003 , 160, 27-37	3.3	63
174	Size of oxide vacancies in fluorite and perovskite structured oxides. <i>Journal of Electroceramics</i> , 2015 , 34, 100-107	1.5	62
173	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	5.7	59
172	Composite Electrodes in Solid Oxide Fuel Cells and Similar Solid State Devices 2000 , 5, 141-152		59
171	In Situ Observations of Microstructural Changes in SOFC Anodes during Redox Cycling. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A403		57
170	Microstructural and chemical changes at the Ni/YSZ interface. <i>Solid State Ionics</i> , 2001 , 144, 197-209	3.3	57
169	La _{0.99} Co _{0.4} Ni _{0.6} O _{3-δ} Fe _{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	8.9	55
168	Structural properties and electrochemical performance of strontium- and nickel-substituted lanthanum cobaltite. <i>Solid State Ionics</i> , 2008 , 179, 636-646	3.3	54
167	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	8.9	53
166	Effect of Heat Treatment on the Lithium Ion Conduction of the LiBH ₄ /Li Solid Solution. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3249-3257	3.8	53
165	Electrochemical Characterization of Ceramic SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A923	3.9	52
164	Planar Metal-Supported SOFC with Novel Cermet Anode. <i>Fuel Cells</i> , 2011 , 11, 661-668	2.9	51
163	Solid Oxide Fuel Cell Performance under Severe Operating Conditions. <i>Fuel Cells</i> , 2006 , 6, 130-136	2.9	51
162	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	3.9	51
161	Understanding the processes governing performance and durability of solid oxide electrolysis cells. <i>Faraday Discussions</i> , 2015 , 182, 393-422	3.6	50
160	Durability of Solid Oxide Electrolysis Cells for Syngas Production. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F1074-F1080	3.9	50
159	Dimensional stability and defect chemistry of doped lanthanum chromites. <i>Journal of Theoretical Biology</i> , 1997 , 49, 1263-1275	2.3	50

158	Ni/YSZ electrode degradation studied by impedance spectroscopy [Effect of p(H ₂ O)]. <i>Solid State Ionics</i> , 2011 , 192, 547-551	3.3	49
157	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. <i>Solid State Ionics</i> , 2005 , 176, 1013-1020	3.3	49
156	Concerning the development of grain face bubbles and fission gas release in UO ₂ fuel. <i>Journal of Nuclear Materials</i> , 1988 , 160, 10-23	3.3	47
155	Continuum mechanics simulations of NiO/Ni-YSZ composites during reduction and re-oxidation. <i>Journal of Power Sources</i> , 2010 , 195, 2677-2690	8.9	46
154	Dimensional Behavior of Ni-YSZ Composites during Redox Cycling. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B322	3.9	45
153	Alkaline electrolysis cell at high temperature and pressure of 250 °C and 42 bar. <i>Journal of Power Sources</i> , 2013 , 229, 22-31	8.9	44
152	Exceptional Durability of Solid Oxide Cells. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, B106		44
151	Temperature measurements in high burnup UO ₂ nuclear fuel: Implications for thermal conductivity, grain growth and gas release. <i>Journal of Nuclear Materials</i> , 1994 , 211, 11-29	3.3	44
150	Electrochemical behaviour of (La _{1-x} Sr _x)Co _{1-y} Ni _y O _{3-δ} as porous SOFC cathodes. <i>Solid State Ionics</i> , 2009 , 180, 1395-1405	3.3	43
149	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	2.9	43
148	Morphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Point Electrode. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 2244-2252	3.9	42
147	Conductivity of SrTiO ₃ based oxides in the reducing atmosphere at high temperature. <i>Journal of Alloys and Compounds</i> , 2007 , 439, 232-236	5.7	41
146	Conductivity and expansion at high temperature in Sr _{0.7} La _{0.3} TiO _{3-δ} prepared under reducing atmosphere. <i>Journal of Electroceramics</i> , 2006 , 16, 103-107	1.5	41
145	Understanding degradation of solid oxide electrolysis cells through modeling of electrochemical potential profiles. <i>Electrochimica Acta</i> , 2016 , 189, 265-282	6.7	40
144	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	3.3	40
143	Electrochemical Characterization of Ni/ScYSZ Electrodes as SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F434-F444	3.9	39
142	Effects of Sr/Ti-ratio in SrTiO ₃ -based SOFC anodes investigated by the use of cone-shaped electrodes. <i>Electrochimica Acta</i> , 2006 , 52, 1651-1661	6.7	38
141	Durability and thermal cycling of Ni/YSZ cermet anodes for solid oxide fuel cells. <i>Journal of Applied Electrochemistry</i> , 2000 , 30, 247-257	2.6	37

140	Electrical conductivity measurements of aqueous and immobilized potassium hydroxide. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16505-16514	6.7	35
139	Towards Quantification of Relations Between Electrode Polarisation and Microstructure. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B814	3.9	34
138	TOF-SIMS studies of yttria-stabilised zirconia. <i>Surface and Interface Analysis</i> , 2006 , 38, 911-916	1.5	34
137	Effect of electrode material on the oxidation of H ₂ at the metal $\text{Sr}_{0.995}\text{Ce}_{0.95}\text{Y}_{0.05}\text{O}_{2.970}$ interface. <i>Solid State Ionics</i> , 2000 , 131, 249-259	3.3	34
136	Observations on the release of cesium from UO ₂ fuel. <i>Journal of Nuclear Materials</i> , 1996 , 240, 32-42	3.3	34
135	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	3.3	32
134	Advanced Test Method of Solid Oxide Cells in a Plug-Flow Setup. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B757	3.9	29
133	Nanoscale Chemical Analysis and Imaging of Solid Oxide Cells. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B38		29
132	Local fission gas release and swelling in water reactor fuel during slow power transients. <i>Journal of Nuclear Materials</i> , 1985 , 131, 162-171	3.3	29
131	Three-phase-boundary dynamics at the Ni/ScYSZ interface. <i>Solid State Ionics</i> , 2009 , 180, 431-438	3.3	28
130	Electrochemical removal of NO _x with porous cell stacks. <i>Materials Research Bulletin</i> , 2010 , 45, 1554-1561	5.1	28
129	Modifications of interface chemistry of LSM YSZ composite by ceria nanoparticles. <i>Solid State Ionics</i> , 2011 , 195, 36-42	3.3	27
128	Characterization of (La _{1-x} Sr _x) _s MnO ₃ and Doped Ceria Composite Electrodes in NO _x -Containing Atmosphere with Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2010 , 157, P35	3.9	27
127	Electrode Activation and Passivation of Solid Oxide Fuel Cell Electrodes. <i>Fuel Cells</i> , 2006 , 6, 117-122	2.9	27
126	Ni/YSZ electrode degradation studied by impedance spectroscopy: Effects of gas cleaning and current density. <i>Solid State Ionics</i> , 2010 , 181, 745-753	3.3	26
125	Synthesis of Nb-doped SrTiO ₃ by a modified glycine-nitrate process. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3609-3612	6	26
124	Materials for reversible solid oxide cells. <i>Current Opinion in Electrochemistry</i> , 2020 , 21, 265-273	7.2	25
123	Ni/YSZ anode Effect of pre-treatments on cell degradation and microstructures. <i>Journal of Power Sources</i> , 2011 , 196, 8931-8941	8.9	25

122	The Effect of Humidity and Oxygen Partial Pressure on LSM/YSZ Cathode. <i>Fuel Cells</i> , 2011 , 11, 669-677	2.9	25
121	Reactions at the Calcium Doped Lanthanum Chromite/Yttria Stabilized Zirconia Interface. <i>Journal of Solid State Chemistry</i> , 1996 , 122, 407-415	3.3	25
120	The Effect of a CGO Barrier Layer on the Performance of LSM/YSZ SOFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B309	3.9	24
119	Electrochemical Characterization of Ni/(Sc)YSZ Electrodes. <i>ECS Transactions</i> , 2010 , 28, 123-139	1	24
118	Impurity features in Ni-YSZ-H ₂ -H ₂ O electrodes. <i>Solid State Ionics</i> , 2011 , 183, 60-70	3.3	24
117	Effects of trace elements at the Ni/ScYSZ interface in a model solid oxide fuel cell anode. <i>Solid State Ionics</i> , 2008 , 179, 1436-1441	3.3	24
116	A Critical Review of Models of the H ₂ /H ₂ O/Ni/SZ Electrode Kinetics. <i>ECS Transactions</i> , 2007 , 7, 1329-1338		24
115	Nanostructured Lanthanum Manganate Composite Cathode. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A619		23
114	On the rate determining step in fission gas release from high burn-up water reactor fuel during power transients. <i>Journal of Nuclear Materials</i> , 1987 , 149, 121-131	3.3	23
113	Performance Characterization of Solid Oxide Cells Under High Pressure. <i>Fuel Cells</i> , 2015 , 15, 697-702	2.9	22
112	Effect of impregnation of La _{0.85} Sr _{0.15} MnO ₃ /yttria stabilized zirconia solid oxide fuel cell cathodes with La _{0.85} Sr _{0.15} MnO ₃ or Al ₂ O ₃ nano-particles. <i>Electrochimica Acta</i> , 2010 , 55, 4606-4609	6.7	22
111	Preparation of nanocrystalline YSZ powders by the plasma technique. <i>Journal of Materials Science</i> , 1998 , 33, 723-728	4.3	21
110	Thermoneutral Operation of Solid Oxide Electrolysis Cells in Potentiostatic Mode. <i>ECS Transactions</i> , 2017 , 78, 3077-3088	1	20
109	Degradation in Solid Oxide Electrolysis Cells During Long Term Testing. <i>Fuel Cells</i> , 2019 , 19, 740-747	2.9	19
108	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	5.7	19
107	Kinetics of CO/CO ₂ and H ₂ /H ₂ O reactions at Ni-based and ceria-based solid-oxide-cell electrodes. <i>Faraday Discussions</i> , 2015 , 182, 75-95	3.6	18
106	Effects of Strong Cathodic Polarization of the Ni-YSZ Interface. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F1217-F1227	3.9	18
105	Modeling Degradation in SOEC Impedance Spectra. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F244-F250	3.9	17

104	Oxygen incorporation in porous thin films of strontium doped lanthanum ferrite. <i>Journal of Electroceramics</i> , 2011 , 27, 134-142	1.5	17
103	The anodic dissolution of iron. Etching-dependent behaviour of annealed iron in moderately acid to neutral chloride solutions. <i>Electrochimica Acta</i> , 1980 , 25, 919-929	6.7	17
102	Surface recrystallization – an underestimated phenomenon affecting oxygen exchange activity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11782-11791	13	16
101	Electrochemical Impedance Modeling of a Solid Oxide Fuel Cell Anode. <i>Fuel Cells</i> , 2014 , 14, 645-659	2.9	16
100	Electrochemical Characterization of a PEMEC Using Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F1419-F1426	3.9	16
99	Oxygen transport properties of dense and porous (La _{0.8} Sr _{0.2}) _{0.99} Co _{0.8} Ni _{0.2} O ₃ – <i>Solid State Ionics</i> , 2009 , 180, 1290-1297	3.3	16
98	H ₂ oxidation at the interface Ni/Sr _{0.995} Ce _{0.95} Y _{0.05} O _{2.975} . <i>Solid State Ionics</i> , 1997 , 97, 483-488	3.3	16
97	X-ray diffraction investigation of phase stability in the CoCrO and the FeCrO systems in air at 1323 K. <i>Journal of Alloys and Compounds</i> , 2005 , 402, 194-200	5.7	16
96	Energy labelling of glazings and windows in Denmark: calculated and measured values. <i>Solar Energy</i> , 2002 , 73, 23-31	6.8	16
95	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	3.3	16
94	Improved controlled atmosphere high temperature scanning probe microscope. <i>Review of Scientific Instruments</i> , 2013 , 84, 073701	1.7	15
93	Origin of electrolyte-dopant dependent sulfur poisoning of SOFC anodes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6769-72	3.6	15
92	Electrical conductivity of Ni/YSZ composites: Variants and redox cycling. <i>Solid State Ionics</i> , 2012 , 222-223, 38-46	3.3	15
91	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	1	15
90	Electrochemical Investigation of Nickel Pattern Electrodes in H ₂ /H ₂ O and CO/CO ₂ Atmospheres. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1588	3.9	15
89	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	6.7	15
88	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	5.7	15
87	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	6	15

86	Dimensional Behaviour of Ni-YSZ Anode Supports for SOFC Under RedOx Cycling Conditions. <i>ECS Transactions</i> , 2007 , 7, 1501-1510	1	14
85	A Decade of Solid Oxide Electrolysis Improvements at DTU Energy. <i>ECS Transactions</i> , 2017 , 75, 3-14	1	13
84	Degradation of Solid Oxide Cells during Co-Electrolysis of H ₂ O and CO ₂ : Carbon Deposition under High Current Densities. <i>ECS Transactions</i> , 2013 , 50, 139-151	1	13
83	Phase Composition and Long-Term Conductivity of Acceptor Doped Ce(PO ₃) ₄ and CeP ₂ O ₇ with Variable P/Metal Ratio and of CeP ₂ O ₇ -KH ₂ PO ₄ Composite. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F798-F805	3.9	13
82	The role of dopant concentration, A-site deficiency and processing on the electrical properties of strontium- and titanium-doped lanthanum scandate. <i>Solid State Ionics</i> , 2004 , 167, 349-354	3.3	13
81	Reduction reactions in doped ceria ceramics studied by dilatometry. <i>Thermochimica Acta</i> , 1993 , 214, 47-50		13
80	Need for In Operando Characterization of Electrochemical Interface Features. <i>ECS Transactions</i> , 2015 , 66, 3-20	1	12
79	Electrical conductivity of titanium pyrophosphate between 100 and 400 °C: effect of sintering temperature and phosphorus content. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 39-47	2.6	12
78	TOF-SIMS characterization of impurity enrichment and redistribution in solid oxide electrolysis cells during operation. <i>Dalton Transactions</i> , 2014 , 43, 14949-58	4.3	12
77	Impedance measurements on Au microelectrodes using controlled atmosphere high temperature scanning probe microscope. <i>Solid State Ionics</i> , 2011 , 197, 32-36	3.3	12
76	EIS Measurements on La _{1-x} Sr _x Co _{1-y} Fe _y O _{3-δ} Based Composite Electrodes in NO _x Containing Atmosphere. <i>Journal of the Electrochemical Society</i> , 2010 , 157, P107	3.9	12
75	Performance and Durability of Solid Oxide Electrolysis Cells for Syngas Production. <i>ECS Transactions</i> , 2012 , 41, 77-85	1	12
74	Gd _{0.6} Sr _{0.4} Fe _{0.8} Co _{0.2} O _{3-δ} : A Novel Type of SOFC Cathode. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, B119		12
73	LSM Microelectrodes: Kinetics and Surface Composition. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F1165-F1174	3.9	11
72	Effects of firing schedule on solubility limits and transport properties of ZrO ₂ -TiO ₂ -2O ₃ fluorites. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2371-2376	3.3	11
71	The a.c. response of lithium, stainless steel, and porous carbon electrodes in thionyl chloride solutions. <i>Journal of Power Sources</i> , 1985 , 14, 123-127	8.9	11
70	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	3.9	10
69	Durability of Solid Oxide Electrolysis Cell and Interconnects for Steam Electrolysis. <i>ECS Transactions</i> , 2013 , 57, 3229-3238	1	10

68	Composite Sr- and V-doped LaCrO ₃ /YSZ sensor electrode operating at low oxygen levels. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2113-2120	2.6	10
67	Scanning Probe Microscopy at 650°C in Air. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B144		10
66	Solid Oxide Fuel Cell (SOFC) Development in Denmark. <i>Materials Science Forum</i> , 2007 , 539-543, 1309-1314	1.4	10
65	Determination of fission gas yields from isotope ratios. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 48, 389-392		10
64	High Temperature Alkaline Electrolysis Cells with Metal Foam Based Gas Diffusion Electrodes. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F3036-F3040	3.9	10
63	Performance Improvement of an Inhomogeneous Cathode by Infiltration. <i>Fuel Cells</i> , 2017 , 17, 108-114	2.9	9
62	Fermi Potential across Working Solid Oxide Cells with Zirconia or Ceria Electrolytes. <i>ECS Transactions</i> , 2014 , 61, 203-214	1	9
61	Cobalt and molybdenum activated electrodes in foam based alkaline electrolysis cells at 150°C and 40 bar. <i>Journal of Power Sources</i> , 2014 , 255, 394-403	8.9	9
60	Impact of Reduction Parameters on the Initial Performance and Stability of Ni/(Sc)YSZ Cermet Anodes for SOFCs. <i>ECS Transactions</i> , 2012 , 45, 363-375	1	9
59	Oxygen Electrode Kinetics and Surface Composition of Dense (La _{0.75} Sr _{0.25}) _{0.95} MnO ₃ on YSZ. <i>ECS Transactions</i> , 2013 , 57, 1673-1682	1	9
58	High-performance Fe ₂ O ₃ -based SOFC cathodes. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2107-2112	1.2	9
57	Controlled Atmosphere High Temperature SPM for electrochemical measurements. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 389-393	0.3	9
56	Mass spectrometric measurement of fission gas from nuclear fuel. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 48, 385-388		9
55	Electrochemical testing of composite electrodes of (La _{1-x} Sr _x) ₂ MnO ₃ and doped ceria in NO-containing atmosphere. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 703-714	2.6	8
54	CERIA AND ITS USE IN SOLID OXIDE CELLS AND OXYGEN MEMBRANES. <i>Catalytic Science Series</i> , 2013 , 623-782	0.4	8
53	High Temperature Electrolysis 2015 , 183-209		8
52	Electrochemical removal of segregated silicon dioxide impurities from yttria stabilized zirconia surfaces at elevated temperatures. <i>Solid State Ionics</i> , 2011 , 190, 60-66	3.3	8
51	Characterisation of the Ni/ScYSZ interface in a model solid oxide fuel cell anode. <i>Solid State Ionics</i> , 2008 , 179, 2290-2298	3.3	8

50	Ni migration in solid oxide cell electrodes: Review and revised hypothesis. <i>Fuel Cells</i> ,	2.9	8
49	In situ surface reduction of a NiO-YSZ-alumina composite using scanning probe microscopy. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1869-1878	2.6	7
48	Electrochemical impedance spectroscopy as diagnostic tool 2010 ,		7
47	Metal-Supported SOFC with Ceramic-Based Anode. <i>ECS Transactions</i> , 2011 , 35, 683-692	1	7
46	Electrochemical Impedance Studies of SOFC Cathodes. <i>ECS Transactions</i> , 2007 , 7, 1261-1270	1	7
45	Properties of LiCl layers formed on lithium in various SOCl ₂ solutions. <i>Journal of Power Sources</i> , 1987 , 20, 53-59	8.9	7
44	High temperature and pressure electrochemical test station. <i>Review of Scientific Instruments</i> , 2013 , 84, 054101	1.7	6
43	Oxidation of Methane and Hydrogen on Ce _{1-x} Gd _x O _{2-δ} Fluorites. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A108		6
42	Observations of athermal gas release from water-reactor fuel at extended burnup. <i>Journal of Nuclear Materials</i> , 1993 , 202, 199-209	3.3	6
41	Migration of fission product barium in UO ₂ fuel under transient conditions. <i>Journal of Nuclear Materials</i> , 1990 , 173, 14-25	3.3	6
40	Reversible Decomposition of Secondary Phases in BaO Infiltrated LSM Electrodes Polarization Effects. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600750	4.6	6
39	Composite Fe _{1-x} BaCe _{0.2} Zr _{0.6} Y _{0.2} O _{2.9} Anodes for Proton Conductor Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F833-F837	3.9	5
38	Biogas Upgrading Using SOEC with a Ni-ScYSZ Electrode. <i>ECS Transactions</i> , 2013 , 57, 3217-3227	1	5
37	Electrochemical performance and stability of nano-particulate and bi-continuous La _{1-x} Sr _x CoO ₃ and Ce _{0.9} Gd _{0.1} O _{1.95} composite electrodes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2759-2766 ^{2.6}	2.6	5
36	Absence of Dopant Segregation to the Surface of Scandia and Ytria Co-Stabilized Zirconia. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, B70		5
35	Improved Internal Reference Oxygen Sensors with Composite Ceramic Electrodes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, B811-B817	3.9	5
34	Fabrication and electrical characterisation of strontium and titanium-doped lanthanum scandate. <i>Solid State Ionics</i> , 2003 , 162-163, 93-98	3.3	5
33	The Impact of Strong Cathodic Polarization on Ni YSZ Microelectrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F253-F263	3.9	4

32	Carbon Nanotube Growth on Nanozirconia under Strong Cathodic Polarization in Steam and Carbon Dioxide. <i>ChemCatChem</i> , 2014 , 6, n/a-n/a	5.2	4
31	Origin of Polarization Losses in Solid Oxide Electrolysis Cells under High Current Density. <i>ECS Transactions</i> , 2010 , 28, 77-87	1	4
30	Polarisation resistance of the O ₂ , Au/O ₂ and H ₂ -H ₂ O, Au/O ₂ electrode systems. <i>Ionics</i> , 2003 , 9, 140-150	2.7	4
29	Some effects of surface states of corroding metals on the kinetic characteristics of the dissolution processes. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1980 , 31, 340-347	1.6	4
28	Noise Phenomena in Electrochemical Impedance Spectroscopy of Polymer Electrolyte Membrane Electrolysis Cells. <i>Fuel Cells</i> , 2018 , 18, 640-648	2.9	3
27	Electrochemical reduction of NiO in a composite electrode. <i>Solid State Ionics</i> , 2013 , 234, 1-10	3.3	3
26	Lifetime of the internal reference oxygen sensor. <i>Solid State Ionics</i> , 2013 , 240, 34-40	3.3	3
25	Limitations of potentiometric oxygen sensors operating at low oxygen levels. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 1159-1167	8.5	3
24	Strontium zirconate as silicon and aluminum scavenger in yttria stabilized zirconia. <i>Solid State Ionics</i> , 2011 , 190, 82-87	3.3	3
23	Electrochemical Reduction of CO ₂ at Temperatures Below 300 oC. <i>ECS Transactions</i> , 2012 , 41, 61-73	1	3
22	Advanced anodes for high-temperature fuel cells 2010 , 213-223		3
21	Polarisation conductivity of the O ₂ ,Pt/Zr(Y)O ₂ and H ₂ -H ₂ O, Pt/Zr(Y)O ₂ electrodes. <i>Ionics</i> , 2002 , 8, 439-446	4.6	3
20	Electrocatalytic activity of a Gd ₂ Ti _{0.6} Mo _{1.2} Sc _{0.2} O _{7-δ} anode towards hydrogen and methane electro-oxidation in a solid oxide fuel cell. <i>Ionics</i> , 2000 , 6, 331-339	2.7	3
19	Testing of Electrodes, Cells, and Short Stacks. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017 , 31-76	0.6	2
18	High purity H ₂ /H ₂ O/Ni/SZ electrodes at 500°C. <i>Solid State Ionics</i> , 2013 , 234, 11-18	3.3	2
17	Studies of rubidium selenate with secondary phase of RbOH under humidified reducing atmosphere. <i>Journal of Alloys and Compounds</i> , 2012 , 545, 85-89	5.7	2
16	The effect of loading and particle size on the oxygen reaction in CGO impregnated Pt electrodes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1161-1168	2.6	2
15	Studying the O ₂ , Metal/O ₂ (Solid Electrolyte) Electrode System on Model Electrodes: The Electrolyte Surface Layer Properties. <i>Russian Journal of Electrochemistry</i> , 2004 , 40, 136-142	1.2	2

14	Studying the O ₂ , Metal/O ₂ (Solid Electrolyte) Electrode System with Use of Model Electrodes: The Exchange Current Density Determination. <i>Russian Journal of Electrochemistry</i> , 2003 , 39, 1058-1064	1.2	2
13	The D-COM blind problem on fission gas release: The predictions of the TRANSURANUS and future codes. <i>Nuclear Engineering and Design</i> , 1989 , 117, 211-233	1.8	2
12	Current understanding of ceria surfaces for CO ₂ reduction in SOECs and future prospects A review. <i>Solid State Ionics</i> , 2022 , 375, 115833	3.3	2
11	Cr- and Ti-Based Spinel as Materials for Anodic Catalyst Support in PEM Electrolysis Cells: Assessing Corrosion Stability and Support Role in Catalyst Activity of Corrosion Stable Ceramics. <i>ECS Transactions</i> , 2018 , 85, 65-77	1	2
10	Influence of sintering profile on the microstructure and electronic transport properties of Sr(Ti,Nb)O ₃ tapes for solid oxide cell applications. <i>Solid State Ionics</i> , 2019 , 335, 164-169	3.3	1
9	IN-SITU TRANSMISSION ELECTRON MICROSCOPY ON OPERATING ELECTROCHEMICAL CELLS 2016 , 137-138		1
8	Passivation and activation of LaSrFeO thin film electrodes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15418-15426	3.6	1
7	(Invited) Electrochemical Routes towards Sustainable Hydrocarbon Fuels. <i>ECS Transactions</i> , 2012 , 41, 3-11	1	1
6	Effect of Transition Metal Ions on the Conductivity and Stability of Stabilised Zirconia. <i>Ceramic Engineering and Science Proceedings</i> , 2008 , 67-78	0.1	1
5	Combining science and practice in the Danish DK-SOFC program. <i>Journal of Power Sources</i> , 1994 , 49, 291-298	8.9	1
4	Electrothermally balanced operation of solid oxide electrolysis cells. <i>Journal of Power Sources</i> , 2022 , 523, 231040	8.9	1
3	Kinetic Studies on State of the Art Solid Oxide Cells - A Comparison between Hydrogen/Steam and Reformate Fuels. <i>ECS Transactions</i> , 2015 , 64, 51-65	1	0
2	(Invited) Electrochemistry Meets Heterogeneous Catalysis: Solid Acid Based Electrochemical Cells Using Cu- and Pt-Based Electrodes in CO ₂ Containing Atmospheres. <i>ECS Transactions</i> , 2020 , 97, 539-551 ¹	1	0
1	Corrosion Study of Cr-Oxide Ceramics Using Rotating Ring Disk Electrode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C3159-C3169	3.9	