Mogens B Mogensen

List of Publications by Year in Descending Order

247 papers	18,149 citations	68 h-index	130 g-index
267 ext. papers	19,829 ext. citations	4.8 avg, IF	6.95 L-index

#	Paper	IF	Citations
247	Electrothermally balanced operation of solid oxide electrolysis cells. *Journal of Power Sources*, **2022**, 523, 231040	8.9	1
246	Current understanding of ceria surfaces for CO2 reduction in SOECs and future prospects □A review. *Solid State Ionics*, **2022**, 375, 115833	3.3	2
245	Passivation and activation of LaSrFeO thin film electrodes. *Physical Chemistry Chemical Physics*, **2020**, 22, 15418-15426	3.6	1
244	Materials for reversible solid oxide cells. *Current Opinion in Electrochemistry*, **2020**, 21, 265-273	7.2	25
243	Recent advances in solid oxide cell technology for electrolysis. *Science*, **2020**, 370,	33.3	149
242	(Invited) Electrochemistry Meets Heterogeneous Catalysis: Solid Acid Based Electrochemical Cells Using Cu- and Pt-Based Electrodes in CO2 Containing Atmospheres. *ECS Transactions*, **2020**, 97, 539-551	1	0
241	Reversible solid-oxide cells for clean and sustainable energy. *Clean Energy*, **2019**, 3, 175-201	4.7	63
240	Surface recrystallization □an underestimated phenomenon affecting oxygen exchange activity. *Journal of Materials Chemistry A*, **2019**, 7, 11782-11791	13	16
239	Corrosion Study of Cr-Oxide Ceramics Using Rotating Ring Disk Electrode. *Journal of the Electrochemical Society*, **2019**, 166, C3159-C3169	3.9	
238	Influence of sintering profile on the microstructure and electronic transport properties of Sr(Ti,Nb)O3 tapes for solid oxide cell applications. *Solid State Ionics*, **2019**, 335, 164-169	3.3	1
237	Degradation in Solid Oxide Electrolysis Cells During Long Term Testing. *Fuel Cells*, **2019**, 19, 740-747	2.9	19
236	The Impact of Strong Cathodic Polarization on Ni|YSZ Microelectrodes. *Journal of the Electrochemical Society*, **2018**, 165, F253-F263	3.9	4
235	Noise Phenomena in Electrochemical Impedance Spectroscopy of Polymer Electrolyte Membrane Electrolysis Cells. *Fuel Cells*, **2018**, 18, 640-648	2.9	3
234	Cr- and Ti-Based Spinels as Materials for Anodic Catalyst Support in PEM Electrolysis Cells: Assessing Corrosion Stability and Support Role in Catalyst Activity of Corrosion Stable Ceramics. *ECS Transactions*, **2018**, 85, 65-77	1	2
233	Performance Improvement of an Inhomogeneous Cathode by Infiltration. *Fuel Cells*, **2017**, 17, 108-114	2.9	9
232	A Decade of Solid Oxide Electrolysis Improvements at DTU Energy. *ECS Transactions*, **2017**, 75, 3-14	1	13
231	Relation Between Ni Particle Shape Change and Ni Migration in Ni□YSZ Electrodes □a Hypothesis. *Fuel Cells*, **2017**, 17, 434-441	2.9	67

230	Testing of Electrodes, Cells, and Short Stacks. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, **2017**, 31-76	0.6	2
229	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. *ACS Catalysis*, **2017**, 7, 5399-5409	13.1	88
228	Thermoneutral Operation of Solid Oxide Electrolysis Cells in Potentiostatic Mode. *ECS Transactions*, **2017**, 78, 3077-3088	1	20
227	Electrochemical Characterization of a PEMEC Using Impedance Spectroscopy. *Journal of the Electrochemical Society*, **2017**, 164, F1419-F1426	3.9	16
226	IN-SITU TRANSMISSION ELECTRON MICROSCOPY ON OPERATING ELECTROCHEMICAL CELLS **2016**, 137-138		1
225	Effects of Strong Cathodic Polarization of the Ni-YSZ Interface. *Journal of the Electrochemical Society*, **2016**, 163, F1217-F1227	3.9	18
224	Degradation of solid oxide cells during co-electrolysis of steam and carbon dioxide at high current densities. *Journal of Power Sources*, **2016**, 328, 452-462	8.9	53
223	Ni/YSZ electrodes structures optimized for increased electrolysis performance and durability. *Solid State Ionics*, **2016**, 293, 27-36	3.3	111
222	Evolution of the electrochemical interface in high-temperature fuel cells and electrolysers. *Nature Energy*, **2016**, 1,	62.3	418
221	Kinetic Studies on State of the Art Solid Oxide Cells: A Comparison between Hydrogen/Steam and Reformate Fuels. *Journal of the Electrochemical Society*, **2016**, 163, F1451-F1462	3.9	10
220	Understanding degradation of solid oxide electrolysis cells through modeling of electrochemical potential profiles. *Electrochimica Acta*, **2016**, 189, 265-282	6.7	40
219	High Temperature Alkaline Electrolysis Cells with Metal Foam Based Gas Diffusion Electrodes. *Journal of the Electrochemical Society*, **2016**, 163, F3036-F3040	3.9	10
218	Reversible Decomposition of Secondary Phases in BaO Infiltrated LSM Electrodes: Polarization Effects. *Advanced Materials Interfaces*, **2016**, 3, 1600750	4.6	6
217	Need for In Operando Characterization of Electrochemical Interface Features. *ECS Transactions*, **2015**, 66, 3-20	1	12
216	Large-scale electricity storage utilizing reversible solid oxide cells combined with underground storage of CO2 and CH4. *Energy and Environmental Science*, **2015**, 8, 2471-2479	35.4	179
215	Kinetics of CO/CO2 and H2/H2O reactions at Ni-based and ceria-based solid-oxide-cell electrodes. *Faraday Discussions*, **2015**, 182, 75-95	3.6	18
214	Understanding the processes governing performance and durability of solid oxide electrolysis cells. *Faraday Discussions*, **2015**, 182, 393-422	3.6	50
213	LSM Microelectrodes: Kinetics and Surface Composition. *Journal of the Electrochemical Society*, **2015**, 162, F1165-F1174	3.9	11

212	Kinetic Studies on State of the Art Solid Oxide Cells - A Comparison between Hydrogen/Steam and Reformate Fuels. *ECS Transactions*, **2015**, 64, 51-65	1	0
211	Eliminating degradation in solid oxide electrochemical cells by reversible operation. *Nature Materials*, **2015**, 14, 239-44	27	296
210	Size of oxide vacancies in fluorite and perovskite structured oxides. *Journal of Electroceramics*, **2015**, 34, 100-107	1.5	62
209	Performance Characterization of Solid Oxide Cells Under High Pressure. *Fuel Cells*, **2015**, 15, 697-702	2.9	22
208	High Temperature Electrolysis **2015**, 183-209		8
207	Electrical conductivity of titanium pyrophosphate between 100 and 400 °C: effect of sintering temperature and phosphorus content. *Journal of Solid State Electrochemistry*, **2014**, 18, 39-47	2.6	12
206	In situ surface reduction of a NiO-YSZ-alumina composite using scanning probe microscopy. *Journal of Solid State Electrochemistry*, **2014**, 18, 1869-1878	2.6	7
205	Carbon Deposition in Solid Oxide Cells during Co-Electrolysis of H2O and CO2. *Journal of the Electrochemical Society*, **2014**, 161, F337-F343	3.9	84
204	Chemical Expansion: Implications for Electrochemical Energy Storage and Conversion Devices. *Annual Review of Materials Research*, **2014**, 44, 205-239	12.8	150
203	Composite Fe BaCe0.2Zr0.6Y0.2O2.9Anodes for Proton Conductor Fuel Cells. *Journal of the Electrochemical Society*, **2014**, 161, F833-F837	3.9	5
202	TOF-SIMS characterization of impurity enrichment and redistribution in solid oxide electrolysis cells during operation. *Dalton Transactions*, **2014**, 43, 14949-58	4.3	12
201	High temperature electrolysis in alkaline cells, solid proton conducting cells, and solid oxide cells. *Chemical Reviews*, **2014**, 114, 10697-734	68.1	339
200	Fermi Potential across Working Solid Oxide Cells with Zirconia or Ceria Electrolytes. *ECS Transactions*, **2014**, 61, 203-214	1	9
199	Carbon Nanotube Growth on Nanozirconia under Strong Cathodic Polarization in Steam and Carbon Dioxide. *ChemCatChem*, **2014**, 6, n/a-n/a	5.2	4
198	Electrochemical Impedance Modeling of a Solid Oxide Fuel Cell Anode. *Fuel Cells*, **2014**, 14, 645-659	2.9	16
197	Electrochemical Characterization of Ni/ScYSZ Electrodes as SOFC Anodes. *Journal of the Electrochemical Society*, **2014**, 161, F434-F444	3.9	39
196	Cobalt and molybdenum activated electrodes in foam based alkaline electrolysis cells at 150 150 °C and 40 bar. *Journal of Power Sources*, **2014**, 255, 394-403	8.9	9
195	High temperature and pressure electrochemical test station. *Review of Scientific Instruments*, **2013**, 84, 054101	1.7	6

194	CERIA AND ITS USE IN SOLID OXIDE CELLS AND OXYGEN MEMBRANES. *Catalytic Science Series*, **2013**, 623-782	0.4	8
193	Biogas Upgrading Using SOEC with a Ni-ScYSZ Electrode. *ECS Transactions*, **2013**, 57, 3217-3227	1	5
192	Durability of Solid Oxide Electrolysis Cell and Interconnects for Steam Electrolysis. *ECS Transactions* , **2013**, 57, 3229-3238	1	10
191	Improved controlled atmosphere high temperature scanning probe microscope. *Review of Scientific Instruments*, **2013**, 84, 073701	1.7	15
190	High purity H2/H2O/Ni/SZ electrodes at 500°C. *Solid State Ionics*, **2013**, 234, 11-18	3.3	2
189	Electrochemical reduction of NiO in a composite electrode. *Solid State Ionics*, **2013**, 234, 1-10	3.3	3
188	Durability of Solid Oxide Electrolysis Cells for Syngas Production. *Journal of the Electrochemical Society*, **2013**, 160, F1074-F1080	3.9	50
187	Origin of electrolyte-dopant dependent sulfur poisoning of SOFC anodes. *Physical Chemistry Chemical Physics*, **2013**, 15, 6769-72	3.6	15
186	Generalized trends in the formation energies of perovskite oxides. *Physical Chemistry Chemical Physics*, **2013**, 15, 7526-33	3.6	67
185	Lifetime of the internal reference oxygen sensor. *Solid State Ionics*, **2013**, 240, 34-40	3.3	3
184	Alkaline electrolysis cell at high temperature and pressure of 250 °C and 42 bar. *Journal of Power Sources*, **2013**, 229, 22-31	8.9	44
183	Effect of Heat Treatment on the Lithium Ion Conduction of the LiBH4–LiI Solid Solution. *Journal of Physical Chemistry C*, **2013**, 117, 3249-3257	3.8	53
182	Degradation of Solid Oxide Cells during Co-Electrolysis of H2O and CO2: Carbon Deposition under High Current Densities. *ECS Transactions*, **2013**, 50, 139-151	1	13
181	Oxygen Electrode Kinetics and Surface Composition of Dense (La0.75Sr0.25)0.95MnO3 on YSZ. *ECS Transactions*, **2013**, 57, 1673-1682	1	9
180	Modeling Degradation in SOEC Impedance Spectra. *Journal of the Electrochemical Society*, **2013**, 160, F244-F250	3.9	17
179	Kinetics of Oxidation of H2 and Reduction of H2O in Ni-YSZ based Solid Oxide Cells. *ECS Transactions*, **2013**, 50, 167-182	1	15
178	Phase Composition and Long-Term Conductivity of Acceptor Doped Ce(PO3)4and CeP2O7with Variable P/Metal Ratio and of CeP2O7-KH2PO4Composite. *Journal of the Electrochemical Society*, **2013**, 160, F798-F805	3.9	13
177	Electrochemical testing of composite electrodes of (La1– Sr x) s MnO3 and doped ceria in NO-containing atmosphere. *Journal of Solid State Electrochemistry*, **2012**, 16, 703-714	2.6	8

176	Studies of rubidium selenate with secondary phase of RbOH under humidified reducing atmosphere. *Journal of Alloys and Compounds*, **2012**, 545, 85-89	5.7	2
175	Electrical conductivity of Ni-YSZ composites: Variants and redox cycling. *Solid State Ionics*, **2012**, 222-223, 38-46	3.3	15
174	Electrical conductivity measurements of aqueous and immobilized potassium hydroxide. *International Journal of Hydrogen Energy*, **2012**, 37, 16505-16514	6.7	35
173	Thermodynamic analysis of synthetic hydrocarbon fuel production in pressurized solid oxide electrolysis cells. *International Journal of Hydrogen Energy*, **2012**, 37, 17101-17110	6.7	112
172	Impact of Reduction Parameters on the Initial Performance and Stability of Ni/(Sc)YSZ Cermet Anodes for SOFCs. *ECS Transactions*, **2012**, 45, 363-375	1	9
171	The effect of loading and particle size on the oxygen reaction in CGO impregnated Pt electrodes. *Journal of Solid State Electrochemistry*, **2012**, 16, 1161-1168	2.6	2
170	Composite Sr- and V-doped LaCrO 3 /YSZ sensor electrode operating at low oxygen levels. *Journal of Solid State Electrochemistry*, **2012**, 16, 2113-2120	2.6	10
169	Electrochemical performance and stability of nano-particulate and bi-continuous La1-X Sr X CoO3 and Ce0.9Gd0.1O1.95 composite electrodes. *Journal of Solid State Electrochemistry*, **2012**, 16, 2759-2766	2.6	5
168	Absence of Dopant Segregation to the Surface of Scandia and Yttria Co-Stabilized Zirconia. *Electrochemical and Solid-State Letters*, **2012**, 15, B70		5
167	Electrochemical Reduction of CO2 at Temperatures Below 300 oC. *ECS Transactions*, **2012**, 41, 61-73	1	3
166	(Invited) Electrochemical Routes towards Sustainable Hydrocarbon Fuels. *ECS Transactions*, **2012**, 41, 3-11	1	1
165	Co-Electrolysis of Steam and Carbon Dioxide in Solid Oxide Cells. *Journal of the Electrochemical Society*, **2012**, 159, F482-F489	3.9	123
164	Performance and Durability of Solid Oxide Electrolysis Cells for Syngas Production. *ECS Transactions*, **2012**, 41, 77-85	1	12
163	Improved Internal Reference Oxygen Sensors with Composite Ceramic Electrodes. *Journal of the Electrochemical Society*, **2012**, 159, B811-B817	3.9	5
162	Towards Quantification of Relations Between Electrode Polarisation and Microstructure. *Journal of the Electrochemical Society*, **2011**, 158, B814	3.9	34
161	Impedance measurements on Au microelectrodes using controlled atmosphere high temperature scanning probe microscope. *Solid State Ionics*, **2011**, 197, 32-36	3.3	12
160	Ni/YSZ anode Effect of pre-treatments on cell degradation and microstructures. *Journal of Power Sources*, **2011**, 196, 8931-8941	8.9	25
159	Limitations of potentiometric oxygen sensors operating at low oxygen levels. *Sensors and Actuators B: Chemical*, **2011**, 160, 1159-1167	8.5	3

158	Oxygen incorporation in porous thin films of strontium doped lanthanum ferrite. *Journal of Electroceramics*, **2011**, 27, 134-142	1.5	17
157	SOFC LSM:YSZ cathode degradation induced by moisture: An impedance spectroscopy study. *Solid State Ionics*, **2011**, 189, 74-81	3.3	63
156	Strontium zirconate as silicon and aluminum scavenger in yttria stabilized zirconia. *Solid State Ionics* , **2011**, 190, 82-87	3.3	3
155	Modifications of interface chemistry of LSM YSZ composite by ceria nanoparticles. *Solid State Ionics* , **2011**, 195, 36-42	3.3	27
154	The Effect of Humidity and Oxygen Partial Pressure on LSM YSZ Cathode. *Fuel Cells*, **2011**, 11, 669-677	2.9	25
153	Planar Metal-Supported SOFC with Novel Cermet Anode. *Fuel Cells*, **2011**, 11, 661-668	2.9	51
152	Durable SOC stacks for production of hydrogen and synthesis gas by high temperature electrolysis. *International Journal of Hydrogen Energy*, **2011**, 36, 7363-7373	6.7	136
151	La0.99Co0.4Ni0.6O3 e0.8Gd0.2O1.95 as composite cathode for solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 7237-7244	8.9	55
150	Sustainable hydrocarbon fuels by recycling CO 2 and H 2 O with renewable or nuclear energy. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1-23	16.2	761
149	Ni/YSZ electrode degradation studied by impedance spectroscopy Effect of p(H2O). *Solid State Ionics*, **2011**, 192, 547-551	3.3	49
148	Co-electrolysis of CO2 and H2O in solid oxide cells: Performance and durability. *Solid State Ionics*, **2011**, 192, 398-403	3.3	288
147	Impurity features in Ni-YSZ-H2-H2O electrodes. *Solid State Ionics*, **2011**, 183, 60-70	3.3	24
146	Electrical conductivity of Ni YSZ composites: Degradation due to Ni particle growth. *Solid State Ionics*, **2011**, 189, 82-90	3.3	82
145	Electrochemical removal of segregated silicon dioxide impurities from yttria stabilized zirconia surfaces at elevated temperatures. *Solid State Ionics*, **2011**, 190, 60-66	3.3	8
144	Metal-Supported SOFC with Ceramic-Based Anode. *ECS Transactions*, **2011**, 35, 683-692	1	7
143	EIS Measurements on La[sub 1]Sr[sub x]Co[sub 1]Fe[sub y]O[sub 3]Based Composite Electrodes in NO[sub x] Containing Atmosphere. *Journal of the Electrochemical Society*, **2010**, 157, P107	3.9	12
142	Poisoning of Solid Oxide Electrolysis Cells by Impurities. *Journal of the Electrochemical Society*, **2010**, 157, B1419	3.9	100
141	The Effect of a CGO Barrier Layer on the Performance of LSM/YSZ SOFC Cathodes. *Journal of the Electrochemical Society*, **2010**, 157, B309	3.9	24

140	Origin of Polarization Losses in Solid Oxide Electrolysis Cells under High Current Density. *ECS Transactions*, **2010**, 28, 77-87	1	4
139	Electrochemical Investigation of Nickel Pattern Electrodes in H[sub 2]/H[sub 2]O and CO/CO[sub 2] Atmospheres. *Journal of the Electrochemical Society*, **2010**, 157, B1588	3.9	15
138	Electrochemical Characterization of Ni/(Sc)YSZ Electrodes. *ECS Transactions*, **2010**, 28, 123-139	1	24
137	Characterization of (La[sub 1−x]Sr[sub x])[sub s]MnO[sub 3] and Doped Ceria Composite Electrodes in NO[sub x]-Containing Atmosphere with Impedance Spectroscopy. *Journal of the Electrochemical Society*, **2010**, 157, P35	3.9	27
136	Exceptional Durability of Solid Oxide Cells. *Electrochemical and Solid-State Letters*, **2010**, 13, B106		44
135	Solid Oxide Electrolysis Cells: Degradation at High Current Densities. *Journal of the Electrochemical Society*, **2010**, 157, B1209	3.9	221
134	Electrochemical impedance spectroscopy as diagnostic tool **2010**,		7
133	Advanced anodes for high-temperature fuel cells **2010**, 213-223		3
132	Effect of impregnation of La0.85Sr0.15MnO3/yttria stabilized zirconia solid oxide fuel cell cathodes with La0.85Sr0.15MnO3 or Al2O3 nano-particles. *Electrochimica Acta*, **2010**, 55, 4606-4609	6.7	22
131	Ni/YSZ electrode degradation studied by impedance spectroscopy: Effects of gas cleaning and current density. *Solid State Ionics*, **2010**, 181, 745-753	3.3	26
130	Continuum mechanics simulations of NiO/Ni-YSZ composites during reduction and re-oxidation. *Journal of Power Sources*, **2010**, 195, 2677-2690	8.9	46
129	High-performance Fe-Co-based SOFC cathodes. *Journal of Solid State Electrochemistry*, **2010**, 14, 2107-2112	2.6	9
128	Electrochemical removal of NOx with porous cell stacks. *Materials Research Bulletin*, **2010**, 45, 1554-1561	2.1	28
127	Trends in stability of perovskite oxides. *Angewandte Chemie - International Edition*, **2010**, 49, 7699-701	16.4	79
126	Complementary techniques for solid oxide electrolysis cell characterisation at the micro- and nano-scale. *International Journal of Hydrogen Energy*, **2010**, 35, 5053-5060	6.7	15
125	Hydrogen and synthetic fuel production using pressurized solid oxide electrolysis cells. *International Journal of Hydrogen Energy*, **2010**, 35, 9544-9549	6.7	148
124	Advanced Test Method of Solid Oxide Cells in a Plug-Flow Setup. *Journal of the Electrochemical Society*, **2009**, 156, B757	3.9	29
123	Scanning Probe Microscopy at 650°C in Air. *Electrochemical and Solid-State Letters*, **2009**, 12, B144		10

122	Redox stability of SOFC: Thermal analysis of Ni-YSZ composites. *Solid State Ionics*, **2009**, 180, 1100-1112	3.3	87
121	Electrochemical characterization and redox behavior of Nb-doped SrTiO3. *Solid State Ionics*, **2009**, 180, 63-70	3.3	73
120	Three-phase-boundary dynamics at the Ni/ScYSZ interface. *Solid State Ionics*, **2009**, 180, 431-438	3.3	28
119	Oxygen transport properties of dense and porous (La0.8Sr0.2)0.99Co0.8Ni0.2O3-δ *Solid State Ionics*, **2009**, 180, 1290-1297	3.3	16
118	Electrochemical behaviour of (La1-xSrx)sCo1-yNiyO3-δ as porous SOFC cathodes. *Solid State Ionics*, **2009**, 180, 1395-1405	3.3	43
117	Mechanical properties of NiO/Ni-YSZ composites depending on temperature, porosity and redox cycling. *Journal of the European Ceramic Society*, **2009**, 29, 1657-1664	6	91
116	Electrolysis of carbon dioxide in Solid Oxide Electrolysis Cells. *Journal of Power Sources*, **2009**, 193, 349-358	3.9	327
115	Production of Synthetic Fuels by Co-Electrolysis of Steam and Carbon Dioxide. *International Journal of Green Energy*, **2009**, 6, 646-660	3	160
114	Dimensional Behavior of Ni-YSZ Composites during Redox Cycling. *Journal of the Electrochemical Society*, **2009**, 156, B322	3.9	45
113	Effect of Transition Metal Ions on the Conductivity and Stability of Stabilised Zirconia. *Ceramic Engineering and Science Proceedings*, **2008**, 67-78	0.1	1
112	Solid Oxide Electrolysis Cells: Microstructure and Degradation of the Ni/Yttria-Stabilized Zirconia Electrode. *Journal of the Electrochemical Society*, **2008**, 155, B1184	3.9	207
111	Nanoscale Chemical Analysis and Imaging of Solid Oxide Cells. *Electrochemical and Solid-State Letters*, **2008**, 11, B38		29
110	Structural properties and electrochemical performance of strontium- and nickel-substituted lanthanum cobaltite. *Solid State Ionics*, **2008**, 179, 636-646	3.3	54
109	Defect and electrical transport properties of Nb-doped SrTiO3. *Solid State Ionics*, **2008**, 179, 2047-2058	3.3	128
108	Characterisation of the Ni/ScYSZ interface in a model solid oxide fuel cell anode. *Solid State Ionics*, **2008**, 179, 2290-2298	3.3	8
107	Electrochemical performance and degradation of (La0.6Sr0.4)0.99CoO3-δ as porous SOFC-cathode. *Solid State Ionics*, **2008**, 179, 1422-1426	3.3	105
106	Effects of trace elements at the Ni/ScYSZ interface in a model solid oxide fuel cell anode. *Solid State Ionics*, **2008**, 179, 1436-1441	3.3	24
105	A Method to Separate Process Contributions in Impedance Spectra by Variation of Test Conditions. *Journal of the Electrochemical Society*, **2007**, 154, B1325	3.9	152

104	Gd[sub 0.6]Sr[sub 0.4]Fe[sub 0.8]Co[sub 0.2]O[sub 3] A Novel Type of SOFC Cathode. *Electrochemical and Solid-State Letters*, **2007**, 10, B119		12
103	Silica Segregation in the Ni-YSZ Electrode. *Journal of the Electrochemical Society*, **2007**, 154, A619	3.9	120
102	Hydrogen and synthetic fuel production from renewable energy sources. *International Journal of Hydrogen Energy*, **2007**, 32, 3253-3257	6.7	389
101	Oxygen nonstoichiometry and transport properties of strontium substituted lanthanum ferrite. *Journal of Solid State Chemistry*, **2007**, 180, 1489-1503	3.3	158
100	Effects of firing schedule on solubility limits and transport properties of ZrO2-TiO2-Y2O3 fluorites. *Journal of Solid State Chemistry*, **2007**, 180, 2371-2376	3.3	11
99	Synthesis of Nb-doped SrTiO3 by a modified glycine-nitrate process. *Journal of the European Ceramic Society*, **2007**, 27, 3609-3612	6	26
98	Ni-YSZ Solid Oxide Fuel Cell Anode Behavior Upon Redox Cycling Based on Electrical Characterization. *Journal of the American Ceramic Society*, **2007**, 90, 3582-3588	3.8	77
97	Electrochemical Impedance Studies of SOFC Cathodes. *ECS Transactions*, **2007**, 7, 1261-1270	1	7
96	Dimensional Behaviour of Ni-YSZ Anode Supports for SOFC Under RedOx Cycling Conditions. *ECS Transactions*, **2007**, 7, 1501-1510	1	14
95	Solid Oxide Fuel Cell (SOFC) Development in Denmark. *Materials Science Forum*, **2007**, 539-543, 1309-1314	0.4	10
94	A Critical Review of Models of the H2/H2O/Ni/SZ Electrode Kinetics. *ECS Transactions*, **2007**, 7, 1329-1338	1	24
93	Controlled Atmosphere High Temperature SPM for electrochemical measurements. *Journal of Physics: Conference Series*, **2007**, 61, 389-393	0.3	9
92	Conductivity and electrochemical characterization of PrFe1-xNixO3- at high temperature. *Journal of Alloys and Compounds*, **2007**, 428, 256-261	5.7	15
91	Conductivity of SrTiO3 based oxides in the reducing atmosphere at high temperature. *Journal of Alloys and Compounds*, **2007**, 439, 232-236	5.7	41
90	Inter-diffusion between Co3O4 coatings and the oxide scale on Fe-22Cr. *Journal of Alloys and Compounds*, **2007**, 433, 193-201	5.7	19
89	Detailed Characterization of Anode-Supported SOFCs by Impedance Spectroscopy. *Journal of the Electrochemical Society*, **2007**, 154, B371	3.9	235
88	Electrode Activation and Passivation of Solid Oxide Fuel Cell Electrodes. *Fuel Cells*, **2006**, 6, 117-122	2.9	27
87	Solid Oxide Fuel Cell Performance under Severe Operating Conditions. *Fuel Cells*, **2006**, 6, 130-136	2.9	51

86	Break Down of Losses in Thin Electrolyte SOFCs. *Fuel Cells*, **2006**, 6, 141-145	2.9	87
85	In Situ Observations of Microstructural Changes in SOFC Anodes during Redox Cycling. *Electrochemical and Solid-State Letters*, **2006**, 9, A403		57
84	Performance and Durability of Solid Oxide Electrolysis Cells. *Journal of the Electrochemical Society*, **2006**, 153, A1741	3.9	168
83	TOF-SIMS studies of yttria-stabilised zirconia. *Surface and Interface Analysis*, **2006**, 38, 911-916	1.5	34
82	Effects of Sr/Ti-ratio in SrTiO3-based SOFC anodes investigated by the use of cone-shaped electrodes. *Electrochimica Acta*, **2006**, 52, 1651-1661	6.7	38
81	Time-of-flight secondary ion mass spectrometry as a tool for studying segregation phenomena at nickel/YSZ interfaces. *Journal of the European Ceramic Society*, **2006**, 26, 967-980	6	15
80	Oxygen nonstoichiometry and transport properties of strontium substituted lanthanum cobaltite. *Solid State Ionics*, **2006**, 177, 3285-3296	3.3	73
79	Conductivity and expansion at high temperature in Sr0.7La0.3TiO3−δ prepared under reducing atmosphere. *Journal of Electroceramics*, **2006**, 16, 103-107	1.5	41
78	Oxidation of Methane and Hydrogen on Ce[sub 1−x]Gd[sub x]O[sub 2−δ] Flourrites. *Electrochemical and Solid-State Letters*, **2005**, 8, A108		6
77	A study on the structural and electrical properties of lanthanum-doped strontium titanate prepared in air. *Journal of Alloys and Compounds*, **2005**, 397, 245-249	5.7	59
76	X-ray diffraction investigation of phase stability in the Co–Cr–O and the Fe–Co–Cr–O systems in air at 1323 K. *Journal of Alloys and Compounds*, **2005**, 402, 194-200	5.7	16
75	High-performance lanthanum-ferrite-based cathode for SOFC. *Solid State Ionics*, **2005**, 176, 457-462	3.3	232
74	A study of Pr0.7Sr0.3Fe1−xNixO3−δ as a cathode material for SOFCs with intermediate operating temperature. *Solid State Ionics*, **2005**, 176, 1013-1020	3.3	49
73	Nanostructured Lanthanum Manganate Composite Cathode. *Electrochemical and Solid-State Letters* , **2005**, 8, A619		23
72	The Mechanism Behind Redox Instability of Anodes in High-Temperature SOFCs. *Journal of the Electrochemical Society*, **2005**, 152, A2186	3.9	105
71	H[sub 2]-H[sub 2]O-Ni-YSZ Electrode Performance. *Journal of the Electrochemical Society*, **2004**, 151, A1436	3.9	71
70	Advanced anodes for high-temperature fuel cells. *Nature Materials*, **2004**, 3, 17-27	27	1203
69	Studying the O2, Metal/O2−(Solid Electrolyte) Electrode System on Model Electrodes: The Electrolyte Surface Layer Properties. *Russian Journal of Electrochemistry*, **2004**, 40, 136-142	1.2	2

68	Factors controlling the oxide ion conductivity of fluorite and perovskite structured oxides. *Solid State Ionics*, **2004**, 174, 279-286	3.3	179
67	Electrochemical Characterization of La[sub 0.6]Sr[sub 0.4]Co[sub 0.2]Fe[sub 0.8]O[sub 3] Cathodes for Intermediate-Temperature SOFCs. *Journal of the Electrochemical Society*, **2004**, 151, A1847	3.9	337
66	The role of dopant concentration, A-site deficiency and processing on the electrical properties of strontium- and titanium-doped lanthanum scandate. *Solid State Ionics*, **2004**, 167, 349-354	3.3	13
65	Studying the O2, Metal/O2−(Solid Electrolyte) Electrode System with Use of Model Electrodes: The Exchange Current Density Determination. *Russian Journal of Electrochemistry*, **2003**, 39, 1058-1064	1.2	2
64	Polarisation resistance of the O2, Au/O2− and H2-H2O, Au/O2− electrode systems. *Ionics*, **2003**, 9, 140-150	2.7	4
63	Effect of impurities on structural and electrochemical properties of the Ni–YSZ interface. *Solid State Ionics*, **2003**, 160, 27-37	3.3	63
62	Fabrication and electrical characterisation of strontium and titanium-doped lanthanum scandate. *Solid State Ionics*, **2003**, 162-163, 93-98	3.3	5
61	Effects of impurities on microstructure in Ni/YSZ–YSZ half-cells for SOFC. *Solid State Ionics*, **2003**, 161, 1-10	3.3	97
60	Cellulose as a binding material in graphitic anodes for Li ion batteries: a performance and degradation study. *Electrochimica Acta*, **2003**, 48, 883-889	6.7	127
59	Conversion of Hydrocarbons in Solid Oxide Fuel Cells. *Annual Review of Materials Research*, **2003**, 33, 321-331	12.8	162
58	Polarisation conductivity of the O2,Pt/Zr(Y)O2 and H2-H2O, Pt/Zr(Y)O2 electrodes. *Ionics*, **2002**, 8, 439-446	2.7	3
57	Progress in understanding SOFC electrodes. *Solid State Ionics*, **2002**, 150, 123-129	3.3	137
56	Energy labelling of glazings and windows in Denmark: calculated and measured values. *Solar Energy* , **2002**, 73, 23-31	6.8	16
55	Mixed conductor anodes: Ni as electrocatalyst for hydrogen conversion. *Solid State Ionics*, **2002**, 152-153, 597-608	3.3	80
54	Effect of sintering temperature on microstructure and performance of LSM–YSZ composite cathodes. *Solid State Ionics*, **2001**, 139, 1-11	3.3	148
53	Microstructural and chemical changes at the Ni/YSZ interface. *Solid State Ionics*, **2001**, 144, 197-209	3.3	57
52	Preparation and Characterization of Copper/Yttria Titania Zirconia Cermets for Use as Possible Solid Oxide Fuel Cell Anodes. *Fuel Cells*, **2001**, 1, 211-218	2.9	43
51	Electrochemical Characterization of Ceramic SOFC Anodes. *Journal of the Electrochemical Society*, **2001**, 148, A923	3.9	52

50	A Study of Metal (Ni, Pt, Au)/Yttria-Stabilized Zirconia Interface in Hydrogen Atmosphere at Elevated Temperature. *Journal of the Electrochemical Society*, **2001**, 148, A878	3.9	51
49	Impedance of Solid Oxide Fuel Cell LSM/YSZ Composite Cathodes. *Journal of the Electrochemical Society*, **2001**, 148, A433	3.9	426
48	Electrical conductivities and chemical stabilities of mixed conducting pyrochlores for SOFC applications. *Solid State Ionics*, **2000**, 135, 675-679	3.3	72
47	Effect of electrode material on the oxidation of H2 at the metal|Sr0.995Ce0.95Y0.05O2.970 interface. *Solid State Ionics*, **2000**, 131, 249-259	3.3	34
46	Physical, chemical and electrochemical properties of pure and doped ceria. *Solid State Ionics*, **2000**, 129, 63-94	3.3	1664
45	Conductivity of A- and B-site doped LaAlO3, LaGaO3, LaScO3 and LaInO3 perovskites. *Solid State Ionics*, **2000**, 128, 91-103	3.3	179
44	Prospects and problems of dense oxygen permeable membranes. *Catalysis Today*, **2000**, 56, 283-295	5.3	147
43	Durability and thermal cycling of Ni/YSZ cermet anodes for solid oxide fuel cells. *Journal of Applied Electrochemistry*, **2000**, 30, 247-257	2.6	37
42	Composite Electrodes in Solid Oxide Fuel Cells and Similar Solid State Devices **2000**, 5, 141-152		59
41	Electrocatalytic activity of a Gd2Ti0.6Mo1.2Sc0.2O7-δ anode towards hydrogen and methane electro-oxidation in a solid oxide fuel cell. *Ionics*, **2000**, 6, 331-339	2.7	3
40	Structure/Performance Relations for Ni/Yttria-Stabilized Zirconia Anodes for Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2000**, 147, 475	3.9	264
39	Behaviour of fission gas in the rim region of high burn-up UO2 fuel pellets with particular reference to results from an XRF investigation. *Journal of Nuclear Materials*, **1999**, 264, 99-112	3.3	40
38	High-temperature conversion of methane on a composite gadolinia-doped ceria|gold electrode. *Applied Catalysis A: General*, **1999**, 189, 117-126	5.1	120
37	A solid oxide fuel cell with a gadolinia-doped ceria anode: preparation and performance. *Solid State Ionics*, **1999**, 123, 199-208	3.3	179
36	Characterisation of composite SOFC cathodes using electrochemical impedance spectroscopy. *Electrochimica Acta*, **1999**, 44, 4195-4201	6.7	105
35	Reaction of CO/CO2 gas mixtures on Ni|YSZ cermet electrodes. *Journal of Applied Electrochemistry*, **1999**, 29, 561-568	2.6	75
34	Gas Diffusion Impedance in Characterization of Solid Oxide Fuel Cell Anodes. *Journal of the Electrochemical Society*, **1999**, 146, 2827-2833	3.9	267
33	Preparation of nanocrystalline YSZ powders by the plasma technique. *Journal of Materials Science*, **1998**, 33, 723-728	4.3	21

32	Geometric Requirements of Solid Electrolyte Cells with a Reference Electrode. *Journal of the Electrochemical Society*, **1998**, 145, 1184-1192	3.9	159
31	Gas Conversion Impedance: A Test Geometry Effect in Characterization of Solid Oxide Fuel Cell Anodes. *Journal of the Electrochemical Society*, **1998**, 145, 2431-2438	3.9	232
30	Morphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Point Electrode. *Journal of the Electrochemical Society*, **1998**, 145, 2244-2252	3.9	42
29	Oxidation of Hydrogen on Ni/Yttria-Stabilized Zirconia Cermet Anodes. *Journal of the Electrochemical Society*, **1997**, 144, 3409-3419	3.9	211
28	Dimensional stability and defect chemistry of doped lanthanum chromites. *Journal of Theoretical Biology*, **1997**, 49, 1263-1275	2.3	50
27	H2 oxidation at the interface Ni/Sr0.995Ce0.95Y0.05O2.975. *Solid State Ionics*, **1997**, 97, 483-488	3.3	16
26	Performance/structure correlation for composite SOFC cathodes. *Journal of Power Sources*, **1996**, 61, 173-181	8.9	178
25	Reactions at the Calcium Doped Lanthanum Chromite–Yttria Stabilized Zirconia Interface. *Journal of Solid State Chemistry*, **1996**, 122, 407-415	3.3	25
24	Kinetic and geometric aspects of solid oxide fuel cell electrodes. *Solid State Ionics*, **1996**, 86-88, 1151-1160	3.3	196
23	Observations on the release of cesium from UO2 fuel. *Journal of Nuclear Materials*, **1996**, 240, 32-42	3.3	34
22	Investigations of metallic alloys for use as interconnects in solid oxide fuel cell stacks. *Journal of Materials Science*, **1996**, 31, 5077-5082	4.3	69
21	Manganite-zirconia composite cathodes for SOFC: Influence of structure and composition. *Electrochimica Acta*, **1995**, 40, 1971-1981	6.7	181
20	Temperature measurements in high burnup UO2 nuclear fuel: Implications for thermal conductivity, grain growth and gas release. *Journal of Nuclear Materials*, **1994**, 211, 11-29	3.3	44
19	Combining science and practice in the Danish "DK-SOFC" program. *Journal of Power Sources*, **1994**, 49, 291-298	8.9	1
18	Physical Properties of Mixed Conductor Solid Oxide Fuel Cell Anodes of Doped CeO2. *Journal of the Electrochemical Society*, **1994**, 141, 2122-2128	3.9	225
17	ac Impedance study of the oxygen reduction mechanism on La1−xSrxMnO3 in solid oxide fuel cells. *Electrochimica Acta*, **1993**, 38, 2015-2020	6.7	98
16	Comment on "The characterization of doped CeO2 electrodes in solid oxide fuel cells" by B.G. Pound, Solid State Ionics 52 (1992) 183–188. *Solid State Ionics*, **1993**, 61, 277-279	3.3	16
15	Reduction reactions in doped ceria ceramics studied by dilatometry. *Thermochimica Acta*, **1993**, 214, 47-50	2.9	13

14	An experimental study of the distribution of retained xenon in transient-tested UO2 fuel. *Journal of Nuclear Materials*, **1993**, 199, 85-101	3.3	32
13	Observations of athermal gas release from water-reactor fuel at extended burnup. *Journal of Nuclear Materials*, **1993**, 202, 199-209	3.3	6
12	Migration of fission product barium in UO2 fuel under transient conditions. *Journal of Nuclear Materials*, **1990**, 173, 14-25	3.3	6
11	The D-COM blind problem on fission gas release: The predictions of the TRANSURANUS and future codes. *Nuclear Engineering and Design*, **1989**, 117, 211-233	1.8	2
10	Concerning the development of grain face bubbles and fission gas release in UO2 fuel. *Journal of Nuclear Materials*, **1988**, 160, 10-23	3.3	47
9	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	3.3	23
8	Properties of LiCl layers formed on lithium in various SOCl2 solutions. *Journal of Power Sources*, **1987**, 20, 53-59	8.9	7
7	Local fission gas release and swelling in water reactor fuel during slow power transients. *Journal of Nuclear Materials*, **1985**, 131, 162-171	3.3	29
6	The a.c. response of lithium, stainless steel, and porous carbon electrodes in thionyl chloride solutions. *Journal of Power Sources*, **1985**, 14, 123-127	8.9	11
5	Mass spectrometric measurement of fission gas from nuclear fuel. *International Journal of Mass Spectrometry and Ion Physics*, **1983**, 48, 385-388		9
4	Determination of fission gas yields from isotope ratios. *International Journal of Mass Spectrometry and Ion Physics*, **1983**, 48, 389-392		10
3	Some effects of surface states of corroding metals on the kinetic characteristics of the dissolution processes. *Materials and Corrosion - Werkstoffe Und Korrosion*, **1980**, 31, 340-347	1.6	4
2	The anodic dissolution of iron—X. Etching-dependent behaviour of annealed iron in moderately acid to neutral chloride solutions. *Electrochimica Acta*, **1980**, 25, 919-929	6.7	17
1	Ni migration in solid oxide cell electrodes: Review and revised hypothesis. *Fuel Cells*,	2.9	8