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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

189 papers	12,614 citations	62 h-index	108 g-index
198 ext. papers	13,437 ext. citations	6 avg, IF	6.56 L-index

#	Paper	IF	Citations
189	Direct oxidation of hydrocarbons in a solid-oxide fuel cell. <i>Nature</i> , 2000 , 404, 265-7	50.4	1528
188	High-Performance SOFC Cathodes Prepared by Infiltration. <i>Advanced Materials</i> , 2009 , 21, 943-956	24	532
187	Nano-socketed nickel particles with enhanced coking resistance grown in situ by redox exsolution. <i>Nature Communications</i> , 2015 , 6, 8120	17.4	438
186	Cu-Ni Cermet Anodes for Direct Oxidation of Methane in Solid-Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A247	3.9	290
185	Novel SOFC anodes for the direct electrochemical oxidation of hydrocarbon. <i>Journal of Power Sources</i> , 2002 , 106, 10-15	8.9	219
184	Novel SOFC anodes for the direct electrochemical oxidation of hydrocarbons. <i>Journal of Catalysis</i> , 2003 , 216, 477-486	7.3	216
183	Direct Oxidation of Hydrocarbons in a Solid Oxide Fuel Cell: I. Methane Oxidation. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3603-3605	3.9	212
182	Nanostructured anodes for solid oxide fuel cells. <i>Current Opinion in Colloid and Interface Science</i> , 2009 , 14, 236-244	7.6	192
181	Direct Oxidation of Liquid Fuels in a Solid Oxide Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A693	3.9	185
180	Synthesis of Highly Porous Yttria-Stabilized Zirconia by Tape-Casting Methods. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 395-400	3.8	182
179	Efficient Reduction of CO ₂ in a Solid Oxide Electrolyzer. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B167		174
178	Comparison of the performance of Cu/CeO ₂ /YSZ and Ni/YSZ composite SOFC anodes with H ₂ , CO, and syngas. <i>Journal of Power Sources</i> , 2005 , 141, 241-249	8.9	153
177	A study of carbon formation and prevention in hydrocarbon-fueled SOFC. <i>Journal of Power Sources</i> , 2006 , 155, 231-238	8.9	152
176	Evidence for Oxidation of Ceria by CO ₂ . <i>Journal of Catalysis</i> , 2000 , 190, 199-204	7.3	151
175	Influence of composition and Cu impregnation method on the performance of Cu/CeO ₂ /YSZ SOFC anodes. <i>Journal of Power Sources</i> , 2006 , 154, 42-50	8.9	147
174	Recent progress in SOFC anodes for direct utilization of hydrocarbons. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3071		146
173	Highly Sulfur Tolerant Cu-Ceria Anodes for SOFCs. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A279		139

172	Role of Hydrocarbon Deposits in the Enhanced Performance of Direct-Oxidation SOFCs. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A470	3.9	139
171	Fabrication of Sr-Doped LaFeO ₃ YSZ Composite Cathodes. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A646	3.9	139
170	The Stability of LSF-YSZ Electrodes Prepared by Infiltration. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B439	3.9	135
169	Investigation of the Structural and Catalytic Requirements for High-Performance SOFC Anodes Formed by Infiltration of LSCM. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B48		132
168	A Study of SOFC Anodes Based on Cu-Ni and Cu-Co Bimetallics in CeO ₂ -YSZ. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1319	3.9	127
167	Tape Cast Solid-Oxide Fuel Cells for the Direct Oxidation of Hydrocarbons. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A443	3.9	122
166	Characterization of LSM-YSZ Composites Prepared by Impregnation Methods. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1347	3.9	119
165	A Comparison of LSM, LSF, and LSCo for Solid Oxide Electrolyzer Anodes. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2066	3.9	117
164	SOFC Anodes Based on Infiltration of La _{0.3} Sr _{0.7} TiO ₃ . <i>Journal of the Electrochemical Society</i> , 2008 , 155, B1179	3.9	115
163	First Synthesis, Experimental and Theoretical Vibrational Spectra of an Oxametallacycle on a Metal Surface. <i>Journal of the American Chemical Society</i> , 1998 , 120, 3196-3204	16.4	114
162	Applications of heterogeneous catalysis in the direct oxidation of hydrocarbons in a solid-oxide fuel cell. <i>Applied Catalysis A: General</i> , 2000 , 200, 55-61	5.1	114
161	Ceria-Based Anodes for the Direct Oxidation of Methane in Solid Oxide Fuel Cells. <i>Langmuir</i> , 1995 , 11, 4832-4837	4	114
160	Characterization of Sr-Doped LaCoO ₃ -YSZ Composites Prepared by Impregnation Methods. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1592	3.9	111
159	Adsorption and Reaction of Aldehydes on Pd Surfaces. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7939-7951	3.4	109
158	A Novel Method for Preparing Anode Cermets for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4019-4022	3.9	108
157	Effect of Precious-Metal Dopants on SOFC Anodes for Direct Utilization of Hydrocarbons. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A240		106
156	Recent developments on anodes for direct fuel utilization in SOFC. <i>Solid State Ionics</i> , 2004 , 175, 1-6	3.3	105
155	Evidence and Model for Strain-Driven Release of Metal Nanocatalysts from Perovskites during Exsolution. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 5106-10	6.4	103

154	Impedance Spectroscopy for the Characterization of Cu-Ceria-YSZ Anodes for SOFCs. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1305	3.9	100
153	The Effect of Ca, Sr, and Ba Doping on the Ionic Conductivity and Cathode Performance of LaFeO ₃ . <i>Journal of the Electrochemical Society</i> , 2008 , 155, B660	3.9	96
152	An examination of lanthanide additives on the performance of Cu/YSZ cermet anodes. <i>Electrochimica Acta</i> , 2002 , 47, 3815-3821	6.7	96
151	A Strategy for Achieving High Performance with SOFC Ceramic Anodes. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, B65		94
150	SOFCs for Direct Oxidation of Hydrocarbon Fuels with Samaria-Doped Ceria Electrolyte. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A354	3.9	94
149	An Examination of Sulfur Poisoning on Pd/Ceria Catalysts. <i>Journal of Catalysis</i> , 2002 , 210, 397-404	7.3	94
148	An Examination of SOFC Anode Functional Layers Based on Ceria in YSZ. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B694	3.9	92
147	Ceria films on zirconia substrates: models for understanding oxygen-storage properties. <i>Catalysis Today</i> , 1999 , 50, 343-352	5.3	92
146	Effect of Polarization on and Implications for Characterization of LSM-YSZ Composite Cathodes. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A111		91
145	Exceptional thermal stability of Pd@CeO ₂ core-shell catalyst nanostructures grafted onto an oxide surface. <i>Nano Letters</i> , 2013 , 13, 2252-7	11.5	90
144	Dopants to enhance SOFC cathodes based on Sr-doped LaFeO ₃ and LaMnO ₃ . <i>Journal of Power Sources</i> , 2010 , 195, 720-728	8.9	89
143	Bisphosphonate-mediated gene vector delivery from the metal surfaces of stents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 159-64	11.5	85
142	SOFC Cathodes Prepared by Infiltration with Various LSM Precursors. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A237		83
141	Synthesis and Stability of ₂ Core-Shell Catalyst Films in Solid Oxide Fuel Cell Anodes. <i>ACS Catalysis</i> , 2013 , 3, 1801-1809	13.1	82
140	Site requirements for the adsorption and reaction of oxygenates on metal oxide surfaces. <i>Chemical Reviews</i> , 2013 , 113, 4136-63	68.1	81
139	A direct carbon fuel cell with a molten antimony anode. <i>Energy and Environmental Science</i> , 2011 , 4, 4133-4	35.4	81
138	A Comparison of Cu-Ceria-SDC and Au-Ceria-SDC Composites for SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1357	3.9	80
137	Low-Temperature Fabrication of Oxide Composites for Solid-Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 331-336	3.8	79

136	A TPD study of the partial oxidation of methanol to formaldehyde on CeO ₂ -supported vanadium oxide. <i>Journal of Catalysis</i> , 2004 , 221, 619-629	7.3	74
135	Reaction of ethanol on oxidized and metallic cobalt surfaces. <i>Surface Science</i> , 2011 , 605, 383-389	1.8	72
134	Thermodynamic Investigation of the Redox Properties of Ceria-Zirconia Solid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5561-5565	3.9	72
133	Effect of Synthesis Conditions on the Performance of Cu-CeO ₂ -YSZ Anodes in SOFCs. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1470	3.9	70
132	A study of thermal stability and methane tolerance of Cu-based SOFC anodes with electrodeposited Co. <i>Electrochimica Acta</i> , 2007 , 52, 1951-1957	6.7	69
131	An Examination of Carbonaceous Deposits in Direct-Utilization SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A604	3.9	69
130	Zn modification of the reactivity of Pd(111) toward methanol and formaldehyde. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10199-207	16.4	66
129	Deoxygenation of Biomass-Derived Oxygenates: Reaction of Furfural on Zn-Modified Pt(111). <i>ACS Catalysis</i> , 2015 , 5, 2177-2183	13.1	62
128	A study of the methane tolerance of LSCM-YSZ composite anodes with Pt, Ni, Pd and ceria catalysts. <i>Scripta Materialia</i> , 2011 , 65, 90-95	5.6	62
127	Effect of ferroelectric polarization on the adsorption and reaction of ethanol on BaTiO ₃ . <i>Surface Science</i> , 2008 , 602, 2849-2855	1.8	62
126	Transition metal-doped rare earth vanadates: a regenerable catalytic material for SOFC anodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11396		61
125	Direct oxidation of sulfur-containing fuels in a solid oxide fuel cell. <i>Chemical Communications</i> , 2001 , 2334-5	5.5	61
124	Fabrication of Highly Porous Yttria-Stabilized Zirconia by Acid Leaching Nickel from a Nickel-Yttria-Stabilized Zirconia Cermet. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 1473-1476	3.8	60
123	Interaction of CO with surface PdZn alloys. <i>Surface Science</i> , 2007 , 601, 5546-5554	1.8	59
122	Characterization of YSZ-YSZ composites for SOFC anodes. <i>Solid State Ionics</i> , 2004 , 175, 171-176	3.3	59
121	Mechanistic Study of the Direct Hydrodeoxygenation of m-Cresol over WO _x -Decorated Pt/C Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 7749-7759	13.1	58
120	Support effects in cobalt-based ethanol steam reforming catalysts: Reaction of ethanol on Co/CeO ₂ /YSZ(1 0 0) model catalysts. <i>Journal of Catalysis</i> , 2012 , 291, 79-86	7.3	58
119	Determining the Ce ₂ O ₃ -CeO _x phase boundary for conditions relevant to adsorption and catalysis. <i>Applied Catalysis B: Environmental</i> , 2003 , 43, 273-280	21.8	56

118	Cu-Co Bimetallic Anodes for Direct Utilization of Methane in SOFCs. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A48		54
117	An Examination of LSM-LSCo Mixtures for Use in SOFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A951	3.9	52
116	Reaction pathways for ethanol on model Co/ZnO(0001) catalysts. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9880-6	3.6	49
115	Effect of reduction on the topographic and electronic structure of TiO ₂ (110) surfaces. <i>Surface Science</i> , 1992 , 274, 35-43	1.8	49
114	Highly Active and Thermally Stable Core-Shell Catalysts for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B596	3.9	48
113	Oxidation of Methanol to Formaldehyde on Vanadia Films Supported on CeO ₂ (111). <i>Journal of Physical Chemistry B</i> , 2002 , 106, 6451-6455	3.4	48
112	SOFC Anodes Based on LST _{0.5} SZ Composites and on Y _[sub 0.04] Ce _[sub 0.48] Zr _[sub 0.48] O _[sub 2] . <i>Journal of the Electrochemical Society</i> , 2008 , 155, B360	3.9	47
111	Deactivation of ceria-based SOFC anodes in methanol. <i>Journal of Power Sources</i> , 2007 , 164, 42-48	8.9	47
110	Reactions of CH ₃ SH and (CH ₃) ₂ S ₂ on the (0001) and (000) Surfaces of ZnO. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23976-82	3.4	47
109	Oxametallacycle formation via ring-opening of 1-epoxy-3-butene on Ag(110): a combined experimental/theoretical approach. <i>Journal of Molecular Catalysis A</i> , 2000 , 163, 129-145		47
108	The use of bimetallics to control the selectivity for the upgrading of lignin-derived oxygenates: Reaction of anisole on Pt and PtZn catalysts. <i>Journal of Catalysis</i> , 2016 , 340, 219-226	7.3	45
107	An Investigation of Oxygen Reduction Kinetics in LSF Electrodes. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F205-F211	3.9	45
106	Enhanced Thermal Stability of SOFC Anodes Made with CeO ₂ -ZrO ₂ Solutions. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A414		42
105	A support layer for solid oxide fuel cells. <i>Ceramics International</i> , 2007 , 33, 1065-1070	5.1	41
104	Fabrication and Performance of Thin-Film YSZ Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A864	3.9	41
103	Catalytic reactivity of face centered cubic PdZn for the steam reforming of methanol. <i>Journal of Catalysis</i> , 2012 , 291, 44-54	7.3	40
102	Evidence of surface-reaction rate limitations in SOFC composite cathodes. <i>Solid State Ionics</i> , 2012 , 225, 146-150	3.3	39
101	Electrodeposition of Cu into a Highly Porous Ni _{0.5} YSZ Cermet. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1539	3.9	39

100	Carbonaceous deposits in direct utilization hydrocarbon SOFC anode. <i>Journal of Power Sources</i> , 2005 , 144, 135-140	8.9	37
99	Deoxygenation of glycolaldehyde and furfural on Mo ₂ C/Mo(100). <i>Surface Science</i> , 2014 , 630, 16-21	1.8	36
98	Modification of SOFC Cathodes by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F1225-F1231	3.9	36
97	Restructuring Porous YSZ by Treatment in Hydrofluoric Acid for Use in SOFC Cathodes. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2220-2224	3.8	35
96	Effect of the Ionic Conductivity of the Electrolyte in Composite SOFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B743	3.9	35
95	Hydrogen Production Via CH ₄ and CO Assisted Steam Electrolysis. <i>Topics in Catalysis</i> , 2007 , 46, 380-385	2.3	35
94	Influence of ferroelectric polarization on the energetics of the reaction of 2-fluoroethanol on BaTiO ₃ . <i>Surface Science</i> , 2009 , 603, 284-290	1.8	34
93	Reaction of CH ₃ OH on Pd/ZnO(0001) and PdZn/ZnO(0001) Model Catalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7049-7057	3.8	33
92	Active Sites for the Reaction of Ethanol to Acetaldehyde on Co/YSZ(100) Model Steam Reforming Catalysts. <i>ACS Catalysis</i> , 2011 , 1, 1414-1420	13.1	32
91	A Comparison of the Redox Properties of Vanadia-Based Mixed Oxides. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2613-2617	3.8	32
90	Temperature-programmed desorption study of the oxidation of methanol to formaldehyde on TiO ₂ (110)-supported vanadia monolayers. <i>Surface Science</i> , 2000 , 452, L293-L297	1.8	32
89	Enhanced reducibility of ceria/YSZ composites in solid oxide electrodes. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2386		31
88	Aerosol-Derived Bimetallic Alloy Powders: Bridging the Gap. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17181-17190	3.8	30
87	Comparison of the reactivity of high-surface area, monolayer vanadia/ceria catalysts with vanadia/CeO ₂ (1 1 1) model systems. <i>Catalysis Today</i> , 2003 , 85, 303-309	5.3	30
86	Highly active dry methane reforming catalysts with boosted in situ grown Ni-Fe nanoparticles on perovskite via atomic layer deposition. <i>Science Advances</i> , 2020 , 6, eabb1573	14.3	29
85	Reaction of Formic Acid on Zn-Modified Pd(111). <i>Catalysis Letters</i> , 2009 , 130, 271-277	2.8	27
84	Analysis of the performance of the electrodes in a natural gas assisted steam electrolysis cell. <i>Chemical Engineering Science</i> , 2008 , 63, 765-769	4.4	27
83	Selective Deoxygenation of Aldehydes: The Reaction of Acetaldehyde and Glycolaldehyde on Zn/Pt(111) Bimetallic Surfaces. <i>ACS Catalysis</i> , 2013 , 3, 1739-1750	13.1	26

82	A Comparison of the Reactivity of Pd Supported on ZnO(101 0) and ZnO(0001). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7251-7259	3.8	26
81	Enhanced Thermal Stability of Cu-Based SOFC Anodes by Electrodeposition of Cr. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1386	3.9	25
80	Preparation of SOFC Cathodes by Infiltration into LSF-YSZ Composite Scaffolds. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F54-F58	3.9	23
79	Decreasing interfacial losses with catalysts in La _{0.9} Ca _{0.1} FeO ₃ membranes for syngas production. <i>Applied Catalysis A: General</i> , 2014 , 486, 259-265	5.1	23
78	Physical and electrochemical properties of alkaline earth doped, rare earth vanadates. <i>Journal of Solid State Chemistry</i> , 2012 , 190, 12-17	3.3	23
77	The stability of direct carbon fuel cells with molten Sb and SbBi alloy anodes. <i>AIChE Journal</i> , 2013 , 59, 3342-3348	3.6	23
76	Studies of the Structure and Interfacial Chemistry of Co Layers on ZnO(0001). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16892-16899	3.8	23
75	Structure and thermal stability of ceria films supported on YSZ(1 0 0) and γ -Al ₂ O ₃ (0 0 0 1). <i>Surface Science</i> , 2005 , 592, 8-17	1.8	23
74	Thermal and photochemical reactions of methanol on nanocrystalline anatase TiO ₂ thin films. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17190-201	3.6	22
73	Exploring the Role of Zn in PdZn Reforming Catalysts: Adsorption and Reaction of Ethanol and Acetaldehyde on Two-dimensional PdZn Alloys. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1486-1494	3.8	21
72	Thermal and Photocatalytic Reactions of Methanol and Acetaldehyde on Pt-Modified Brookite TiO ₂ Nanorods. <i>ACS Catalysis</i> , 2018 , 8, 11834-11846	13.1	21
71	Shape-dependence of the thermal and photochemical reactions of methanol on nanocrystalline anatase TiO ₂ . <i>Surface Science</i> , 2016 , 654, 1-7	1.8	20
70	SOFC anodes based on infiltration of tungsten bronzes. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 15722-15730	6.7	20
69	Polarization-Induced Hysteresis in CuCo-Doped Rare Earth Vanadates SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F751-F756	3.9	20
68	Correlating the Surface Chemistry of C2 and C3 Aldoses with a C6 Sugar: Reaction of Glucose, Glyceraldehyde, and Glycolaldehyde on Pd(111). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18891-18898	3.8	19
67	The impact of redox properties on the reactivity of V ₂ O ₅ /Al ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 2010 , 269, 397-403	7.3	19
66	The formation of diethyl ether via the reaction of iodoethane with atomic oxygen on the Ag(110) surface. <i>Surface Science</i> , 1999 , 420, 65-80	1.8	19
65	Ensemble vs. electronic effects on the reactivity of two-dimensional Pd alloys: a comparison of CO and CH ₃ OH adsorption on Zn/Pd(111) and Cu/Pd(111). <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10457-65	3.6	18

64	Thermal and Photochemical Reactions of Methanol, Acetaldehyde, and Acetic Acid on Brookite TiO ₂ Nanorods. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11488-11498	3.8	17
63	Enhancing Oxygen Exchange Activity by Tailoring Perovskite Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4082-4088	6.4	17
62	The effect of support on redox properties and methanol-oxidation activity of vanadia catalysts. <i>Applied Catalysis A: General</i> , 2011 , 391, 86-91	5.1	17
61	TPD study of the reaction of CH ₃ CH ₂ SH and (CH ₃ CH ₂) ₂ S ₂ on ZnO(0001) and ZnO. <i>Catalysis Letters</i> , 2006 , 111, 1-4	2.8	17
60	Mechanism of Diethyl Ether Formation on Ag(110) and Its Dependence on Coadsorbed Oxygen Species. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 1144-1151	3.4	17
59	Zirconia-Based Electrolyte Stability in Direct-Carbon Fuel Cells with Molten Sb Anodes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F567-F570	3.9	16
58	Self-reconstructed interlayer derived by in-situ Mn diffusion from La _{0.5} Sr _{0.5} MnO ₃ via atomic layer deposition for an efficient bi-functional electrocatalyst. <i>Nano Energy</i> , 2020 , 71, 104564	17.1	16
57	Local Structure of Defects on Hydrogen- and Vacuum-Reduced TiO ₂ Surfaces. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 1137-1142	3.8	16
56	Infiltrated lanthanum strontium chromite anodes for solid oxide fuel cells: Structural and catalytic aspects. <i>Journal of Power Sources</i> , 2014 , 262, 207-212	8.9	15
55	Adsorption structure, energetics, and thermal reactions of vinyl chloride on Ag(). <i>Surface Science</i> , 2003 , 522, 90-104	1.8	15
54	Surface modification of SOFC cathodes by Co, Ni, and Pd oxides. <i>Solid State Ionics</i> , 2019 , 341, 115051	3.3	14
53	The effect of thermodynamic properties of zirconia-supported Fe ₃ O ₄ on water-gas shift activity. <i>Applied Catalysis A: General</i> , 2009 , 356, 225-230	5.1	14
52	Redox Isotherms for Vanadia Supported on Zirconia. <i>Catalysis Letters</i> , 2008 , 125, 1-7	2.8	14
51	Reaction of glyceraldehyde and glucose on Zn-modified Pt(111) surfaces. <i>Catalysis Today</i> , 2014 , 237, 157-165	5.3	13
50	Site requirements for the reactions of CH ₃ SH and (CH ₃) ₂ S ₂ on ZnO(). <i>Surface Science</i> , 2008 , 602, 198-204.8		13
49	Reaction of CO, CH ₂ O, CH ₃ OH on Zn-Modified Pt(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6692-6701	3.8	12
48	Inexpensive ultrahigh vacuum heatable/coolable xyz-rotary motion sample manipulator. <i>Review of Scientific Instruments</i> , 1995 , 66, 3048-3050	1.7	12
47	Mechanism of H-Hydrogen Abstraction from Adsorbed Alkoxides on Supported Metal Oxide Catalysts. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5647-5652	3.4	11

46	HREELS study of vapor-deposited polyaniline on Ag(110). <i>Surface Science</i> , 1999 , 420, L115-L121	1.8	11
45	Lignin-derived oxygenate reforming on a bimetallic surface: The reaction of benzaldehyde on Zn/Pt(111). <i>Surface Science</i> , 2016 , 650, 161-166	1.8	11
44	Effect of grain boundary diffusion on electrolyte stability in direct carbon fuel cells with antimony anodes. <i>Ceramics International</i> , 2017 , 43, 16575-16579	5.1	10
43	Probing local electrochemical activity within yttria-stabilized-zirconia via in situ high-temperature atomic force microscopy. <i>Journal of Materials Research</i> , 2015 , 30, 357-363	2.5	10
42	Biomass-derived oxygenate reforming on Pt(111): A demonstration of surface science using d-glucose and its model surrogate glycolaldehyde. <i>Surface Science</i> , 2012 , 606, L91-L94	1.8	10
41	Ferroelectric polarization dependent interactions at Pd/NbO ₃ (0001) interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 1337-1342	2.9	10
40	Probing the effect of local structure on the thermodynamic redox properties of V(+5): a comparison of V ₂ O ₅ and Mg ₃ (VO ₄) ₂ . <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5680-3	3.4	10
39	Growth and structure of Pd films on ZnO(0001). <i>Journal of Chemical Physics</i> , 2006 , 125, 164713	3.9	10
38	Effects of Sputtering and Plasma Etching on the Surface Reactivity of Graphite. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 279-283	3.8	10
37	TPD and HREELS study of the reaction of guaiacol on Zn-decorated Pt(111). <i>Catalysis Today</i> , 2018 , 302, 272-276	5.3	9
36	Fabrication of MnCo ₂ O ₄ -YSZ Composite Cathodes for Solid Oxide Fuel Cells by Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F863-F866	3.9	9
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