

# Minoru Inaba

## List of Publications by Citations

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227  
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247  
ext. papers

11,621  
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L-index

#	Paper	IF	Citations
227	Scientific aspects of polymer electrolyte fuel cell durability and degradation. <i>Chemical Reviews</i> , <b>2007</b> , 107, 3904-51	68.1	2627
226	Gas crossover and membrane degradation in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 5746-5753	6.7	401
225	Electrochemically constructed p-Cu <sub>2</sub> O/n-ZnO heterojunction diode for photovoltaic device. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 3326-3329	3	298
224	Effects of Some Organic Additives on Lithium Deposition in Propylene Carbonate. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A1578	3.9	288
223	Durability of perfluorinated ionomer membrane against hydrogen peroxide. <i>Journal of Power Sources</i> , <b>2006</b> , 158, 1222-1228	8.9	267
222	In Situ Raman Study on Electrochemical Li Intercalation into Graphite. <i>Journal of the Electrochemical Society</i> , <b>1995</b> , 142, 20-26	3.9	253
221	Surface Film Formation on a Graphite Negative Electrode in Lithium-Ion Batteries: Atomic Force Microscopy Study on the Effects of Film-Forming Additives in Propylene Carbonate Solutions. <i>Langmuir</i> , <b>2001</b> , 17, 8281-8286	4	243
220	Impedance Study on the Electrochemical Lithium Intercalation into Natural Graphite Powder. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 172-178	3.9	227
219	Raman study of layered rock-salt LiCoO <sub>2</sub> and its electrochemical lithium deintercalation. <i>Journal of Raman Spectroscopy</i> , <b>1997</b> , 28, 613-617	2.3	211
218	Crystal Structure and Metal-Insulator Transition of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>1996</b> , 121, 423-429	3.3	199
217	Effect of Agglomeration of Pt/C Catalyst on Hydrogen Peroxide Formation. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A474		190
216	Surface Film Formation on Graphite Negative Electrode in Lithium-Ion Batteries: AFM Study in an Ethylene Carbonate-Based Solution. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A989	3.9	173
215	Electrochemical Scanning Tunneling Microscopy Observation of Highly Oriented Pyrolytic Graphite Surface Reactions in an Ethylene Carbonate-Based Electrolyte Solution. <i>Langmuir</i> , <b>1996</b> , 12, 1535-1540	4	146
214	Electrochemical Lithium Intercalation within Carbonaceous Materials: Intercalation Processes, Surface Film Formation, and Lithium Diffusion. <i>Bulletin of the Chemical Society of Japan</i> , <b>1998</b> , 71, 521-534	5.1	145
213	A.c. impedance analysis of electrochemical lithium intercalation into highly oriented pyrolytic graphite. <i>Journal of Power Sources</i> , <b>1997</b> , 68, 227-231	8.9	142
212	Preparation of c-axis oriented thin films of LiCoO <sub>2</sub> by pulsed laser deposition and their electrochemical properties. <i>Journal of Power Sources</i> , <b>2001</b> , 94, 175-182	8.9	140
211	Electrochemical Intercalation of Lithium Ion within Graphite from Propylene Carbonate Solutions. <i>Electrochemical and Solid-State Letters</i> , <b>2003</b> , 6, A13		138

210	Structural and Electrical Characterizations of Electrodeposited p-Type Semiconductor Cu[sub 2]O Films. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, C179	3.9	133
209	Metal-Insulator Transition and Crystal Structure of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> as Functions of Sr-Content, Temperature, and Oxygen Partial Pressure. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 142, 374-381	3.3	125
208	Surface film formation on a graphite negative electrode in lithium-ion batteries: AFM study on the effects of co-solvents in ethylene carbonate-based solutions. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 1975-1982	6.7	119
207	Stage Transformation of Lithium-Graphite Intercalation Compounds Caused by Electrochemical Lithium Intercalation. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 2443-2448	3.9	119
206	Interfacial reactions between graphite electrodes and propylene carbonate-based solutions: Electrolyte-concentration dependence of electrochemical lithium intercalation reaction. <i>Journal of Power Sources</i> , <b>2008</b> , 175, 540-546	8.9	108
205	STM study on graphite/electrolyte interface in lithium-ion batteries: solid electrolyte interface formation in trifluoropropylene carbonate solution. <i>Electrochimica Acta</i> , <b>1999</b> , 45, 99-105	6.7	100
204	Electrochemical scanning tunneling microscopy analysis of the surface reactions on graphite basal plane in ethylene carbonate-based solvents and propylene carbonate. <i>Journal of Power Sources</i> , <b>1997</b> , 68, 221-226	8.9	99
203	Effects of mixed conduction on the open-circuit voltage of intermediate-temperature SOFCs based on Sm-doped ceria electrolytes. <i>Solid State Ionics</i> , <b>2005</b> , 176, 663-668	3.3	99
202	Electrochemical properties of ceria-based oxides for use in intermediate-temperature SOFCs. <i>Solid State Ionics</i> , <b>2005</b> , 176, 647-654	3.3	97
201	Controlled growth and shape formation of platinum nanoparticles and their electrochemical properties. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1632-1638	6.7	96
200	Direct Electrodeposition of 1.46 eV Bandgap Silver(I) Oxide Semiconductor Films by Electrogenerated Acid. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1254-1256	9.6	94
199	Dilution of Highly Concentrated LiBF <sub>4</sub> /Propylene Carbonate Electrolyte Solution with Fluoroalkyl Ethers for 5-V LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Positive Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A6412-A6416	3.9	86
198	Formation mechanism of alkyl dicarbonates in Li-ion cells. <i>Journal of Power Sources</i> , <b>2005</b> , 150, 208-215	8.9	81
197	In situ Roman Study of Electrochemical Lithium Insertion into Mesocarbon Microbeads Heat-Treated at Various Temperatures. <i>Journal of the Electrochemical Society</i> , <b>1996</b> , 143, 2572-2578	3.9	81
196	Irreversible capacity of electrodeposited Sn thin film anode. <i>Journal of Power Sources</i> , <b>2005</b> , 146, 473-478	8.9	76
195	Suppression of an Alkyl Dicarbonate Formation in Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A2046	3.9	76
194	Influence of Nafion® film on the kinetics of anodic hydrogen oxidation. <i>Journal of Electroanalytical Chemistry</i> , <b>1998</b> , 447, 201-209	4.1	75
193	Imaging of highly oriented pyrolytic graphite corrosion accelerated by Pt particles. <i>Electrochemistry Communications</i> , <b>2005</b> , 7, 1153-1156	5.1	75

192	Correlation Between Cointercalation of Solvents and Electrochemical Intercalation of Lithium into Graphite in Propylene Carbonate Solution. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A257	3.9	69
191	Preliminary Study on Direct Alcohol Fuel Cells Employing Anion Exchange Membrane. <i>Electrochemistry</i> , <b>2002</b> , 70, 980-983	1.2	68
190	AFM study of surface film formation on a composite graphite electrode in lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2003</b> , 119-121, 555-560	8.9	68
189	TiO <sub>2</sub> (B) as a promising high potential negative electrode for large-size lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 580-584	8.9	61
188	Electrochemical AFM study of LiMn <sub>2</sub> O <sub>4</sub> thin film electrodes exposed to elevated temperatures. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 539-545	8.9	59
187	Raman Spectra of LiCo <sub>1-x</sub> Ni <sub>x</sub> O <sub>2</sub> . <i>Chemistry Letters</i> , <b>1995</b> , 24, 889-890	1.7	58
186	Density functional theory calculation on the effect of local structure of doped ceria on ionic conductivity. <i>Solid State Ionics</i> , <b>2003</b> , 160, 109-116	3.3	57
185	Rotating ring-disk electrode study on the cathodic oxygen reduction at Nafion <sup>®</sup> -coated gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1998</b> , 458, 175-182	4.1	56
184	Concentrated LiPF <sub>6</sub> /PC electrolyte solutions for 5-V LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> positive electrode in lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 209, 219-224	6.7	56
183	Photochemical Construction of Photovoltaic Device Composed of p-Copper(I) Oxide and n-Zinc Oxide. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, C668	3.9	55
182	Transmission electron microscopy (TEM) analysis of two-phase reaction in electrochemical lithium insertion within $\epsilon$ -MoO <sub>3</sub> . <i>Solid State Ionics</i> , <b>2000</b> , 135, 95-100	3.3	53
181	Electrochemical STM observation of LiMn <sub>2</sub> O <sub>4</sub> thin films prepared by pulsed laser deposition. <i>Journal of Power Sources</i> , <b>1999</b> , 81-82, 554-557	8.9	53
180	In situ Scanning Electron Microscopy of Silicon Anode Reactions in Lithium-Ion Batteries during Charge/Discharge Processes. <i>Scientific Reports</i> , <b>2016</b> , 6, 36153	4.9	52
179	Stability of Pt-Catalyzed Highly Oriented Pyrolytic Graphite Against Hydrogen Peroxide in Acid Solution. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A58	3.9	51
178	Electrochemical properties of LiFePO <sub>4</sub> thin films prepared by pulsed laser deposition. <i>Journal of Power Sources</i> , <b>2005</b> , 146, 559-564	8.9	49
177	Temperature effects on SEI formation and cyclability of Si nanoflake powder anode in the presence of SEI-forming additives. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 186-193	6.7	48
176	Preparation of core/shell and hollow nanostructures of cerium oxide by electrodeposition on a polystyrene sphere template. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1070-5	9.5	47
175	Impacts of air bleeding on membrane degradation in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 178, 699-705	8.9	45

174	Application of the SPE method to organic electrochemistryVII. The reduction of nitrobenzene on a modified Pt-nafion. <i>Electrochimica Acta</i> , <b>1988</b> , 33, 365-369	6.7	45
173	Atomic force microscopy study on the stability of a surface film formed on a graphite negative electrode at elevated temperatures. <i>Langmuir</i> , <b>2004</b> , 20, 1348-55	4	43
172	Preparation of LiFePO[sub 4] Thin Films by Pulsed Laser Deposition and Their Electrochemical Properties. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A340		42
171	Pyrolysis/gas chromatography/mass spectroscopy analysis of the surface film formed on graphite negative electrode. <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 156-158	8.9	42
170	In Situ Atomic Force Microscopy Study on Lithium Deposition on Nickel Substrates at Elevated Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A385	3.9	41
169	LiBF <sub>4</sub> -Based Concentrated Electrolyte Solutions for Suppression of Electrolyte Decomposition and Rapid Lithium-Ion Transfer at LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2211-A2215	3.9	39
168	New molten salt systems for high temperature molten salt batteries: Ternary and quaternary molten salt systems based on LiF□iCl, LiF□iBr, and LiCl□iBr. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 4012-4018	8.9	37
167	Preparation of alkali metal graphite intercalation compounds in organic solvents. <i>Journal of Physics and Chemistry of Solids</i> , <b>1996</b> , 57, 799-803	3.9	37
166	Effects of Carbon Dioxide on the Performance of Anion-Exchange Membrane Fuel Cells. <i>Electrochemistry</i> , <b>2011</b> , 79, 322-325	1.2	36
165	Controllable Growth Orientation of Ag <sub>2</sub> O and Cu <sub>2</sub> O Films by Electrocrystallization from Aqueous Solutions. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 52-58	3.5	35
164	Improved Cycle Performance of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> Positive Electrode Material in Highly Concentrated LiBF <sub>4</sub> /DMC. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A82-A88	3.9	33
163	Study on the decomposition mechanism of alkyl carbonate on lithium metal by pyrolysis-gas chromatography-mass spectroscopy. <i>Journal of Power Sources</i> , <b>2003</b> , 119-121, 597-603	8.9	32
162	Influence of Li diffusion distance on the negative electrode properties of Si thin flakes for Li secondary batteries. <i>Solid State Ionics</i> , <b>2012</b> , 225, 506-509	3.3	31
161	Membrane Degradation in Polymer Electrolyte Fuel Cells under Low Humidification Conditions. <i>Electrochemistry</i> , <b>2007</b> , 75, 207-212	1.2	31
160	Si thin platelets as high-capacity negative electrode for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6637-6643	8.9	30
159	Effects of Temperature and Relative Humidity on Oxygen Permeation in Nafion□ and Sulfonated Poly(Arylene Ether Sulfone). <i>ECS Transactions</i> , <b>2009</b> , 16, 881-889	1	30
158	Durability of Electrocatalysts in Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , <b>2009</b> , 25, 573-581	1	30
157	Growth rate of yttria-stabilized zirconia thin films formed by electrochemical vapour-deposition using NiO as an oxygen source. <i>Solid State Ionics</i> , <b>1997</b> , 104, 303-310	3.3	28

156	Electrochemical Corrosion of Carbon Materials in an Aqueous Acid Solution. <i>Electrochemistry</i> , <b>2007</b> , 75, 258-260	1.2	28
155	Anionic Species (FH) <sub>x</sub> F <sup>-</sup> in Room-Temperature Molten Fluorides (CH <sub>3</sub> ) <sub>4</sub> NF <sub>4</sub> mHF. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 1127-1132	2.8	28
154	Proton conductivity of (NH <sub>4</sub> ) <sub>2</sub> TiP <sub>4</sub> O <sub>13</sub> -based material for intermediate temperature fuel cells. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 180-182	5.1	27
153	Electrochemical Properties of Carbonaceous Thin Films Prepared by Plasma Chemical Vapor Deposition. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A1260	3.9	27
152	Effects of Li pre-doping on charge/discharge properties of Si thin flakes as a negative electrode for Li-ion batteries. <i>Solid State Ionics</i> , <b>2014</b> , 262, 39-42	3.3	26
151	Effect of fluorinated alcohol on the kinetics of cathodic oxygen reduction at gold electrodes. <i>Electrochimica Acta</i> , <b>1999</b> , 45, 415-422	6.7	26
150	Influence of Carbon Dioxide on the Performance of Anion-Exchange Membrane Fuel Cells. <i>ECS Transactions</i> , <b>2009</b> , 25, 105-110	1	25
149	Stability of platinum particles on a carbon substrate investigated by atomic force microscopy and scanning electron microscopy. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 524-529	8.9	25
148	Effects of the molecular structure of fluorinated additives on the kinetics of cathodic oxygen reduction. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 504, 208-216	4.1	25
147	Hydrogen oxidation on partially immersed Nafion <sup>®</sup> -coated electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1996</b> , 417, 105-111	4.1	24
146	Artificial lithium fluoride surface coating on silicon negative electrodes for the inhibition of electrolyte decomposition in lithium-ion batteries: visualization of a solid electrolyte interphase using in situ AFM. <i>Nanoscale</i> , <b>2018</b> , 10, 17257-17264	7.7	24
145	Simultaneous measurement of the effective ionic conductivity and effective electronic conductivity in a porous electrode film impregnated with electrolyte. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 648, 92-97	4.1	22
144	Preparation of dense electrolyte layer using dissociated oxygen electrochemical vapor deposition technique. <i>Solid State Ionics</i> , <b>2004</b> , 175, 483-485	3.3	22
143	Si/Li <sub>2</sub> S Battery with Solvate Ionic Liquid Electrolyte. <i>Electrochemistry</i> , <b>2016</b> , 84, 887-890	1.2	21
142	Improvement of tap density of TiO <sub>2</sub> (B) powder as high potential negative electrode for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 244, 50-55	8.9	21
141	Effect of Core Size on Activity and Durability of Pt Core-Shell Catalysts for PEFCs. <i>ECS Transactions</i> , <b>2010</b> , 33, 231-238	1	21
140	Zinc Oxide Nano-Cauliflower Array with Room Temperature Ultraviolet Light Emission. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1418-1421	3.5	21
139	Study of the Decomposition of Propylene Carbonate on Lithium Metal Surface by Pyrolysis-Gas Chromatography-Mass Spectroscopy. <i>Langmuir</i> , <b>2003</b> , 19, 814-821	4	21

138	Nucleation and phase-boundary movement upon stage transformation in lithium-graphite intercalation compounds. <i>Electrochimica Acta</i> , <b>1999</b> , 45, 865-871	6.7	21
137	STM Study of Well-Defined Graphite/Electrolyte Interface Polarized in Propylene Carbonate Solution Containing 12-Crown-4. <i>Electrochemistry</i> , <b>1999</b> , 67, 1153-1155	1.2	21
136	Surface film formation on nickel electrodes in a propylene carbonate solution at elevated temperatures. <i>Journal of Power Sources</i> , <b>2002</b> , 108, 163-173	8.9	20
135	Oxygen chemical potential and mixed conduction in doped ceria under influence of oxygen partial pressure gradient. <i>Solid State Ionics</i> , <b>2002</b> , 152-153, 493-498	3.3	19
134	Ni <sub>0.5</sub> Fe <sub>0.5</sub> /Sm-doped CeO <sub>2</sub> anode for ammonia-fueled solid oxide fuel cells. <i>Solid State Ionics</i> , <b>2014</b> , 256, 1-4	3.3	18
133	Improvement of the Reversible Capacity of TiO <sub>2</sub> (B) High Potential Negative Electrode. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, A49-A54	3.9	18
132	New molten salt systems for high-temperature molten salt batteries: LiF <sub>2</sub> Cl <sub>2</sub> LiBr-based quaternary systems. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7691-7700	8.9	18
131	Effect of an Alkyl Dicarboxylate on Li-Ion Cell Performance. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1963	3.9	18
130	Preparation of Ytria-Stabilized Zirconia Microtube by Electrochemical Vapor Deposition. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 3157-3159	3.8	18
129	Electrochemical and Chemical Treatment Methods for Enhancement of Oxygen Reduction Reaction Activity of Pt Shell-Pd Core Structured Catalyst. <i>Electrochimica Acta</i> , <b>2017</b> , 244, 146-153	6.7	17
128	Low-Viscosity $\gamma$ -Butyrolactone-Based Concentrated Electrolyte Solutions for LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Positive Electrodes in Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2398-2403	4.3	17
127	In situ atomic force microscopy observation of lithium deposition at an elevated temperature. <i>Journal of Power Sources</i> , <b>2001</b> , 97-98, 265-268	8.9	17
126	Electrochemical STM Study on Surface Morphology Change of HOPG Basal Plane in an Organic Electrolyte Solution. <i>Chemistry Letters</i> , <b>1995</b> , 24, 661-662	1.7	17
125	Effect of Lithium Silicate Addition on the Microstructure and Crack Formation of LiNiCoMnO Cathode Particles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39910-39920	9.5	16
124	Morphology changes and long-term cycling durability of Si flake powder negative electrode for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 267, 94-101	6.7	16
123	Calorimetric Study on the Hysteresis in the Charge-Discharge Profiles of Mesocarbon Microbeads Heat-Treated at Low Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 4008	3.9	16
122	Suppression of Mn <sup>2+</sup> -Dissolution of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Electrodes in a Highly Concentrated Electrolyte Solution at Elevated Temperatures. <i>ChemistrySelect</i> , <b>2017</b> , 2, 8824-8827	1.8	15
121	Li Pre-doping of Amorphous Silicon Electrode in Li-Naphthalene Complex Solutions. <i>Electrochemistry</i> , <b>2015</b> , 83, 843-845	1.2	15



120	Influence of lithium silicate coating on retarding crack formation in LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode particles. <i>Electrochimica Acta</i> , <b>2018</b> , 291, 304-310	6.7	15
119	Fluoroalkyl ether-diluted dimethyl carbonate-based electrolyte solutions for high-voltage operation of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> electrodes in lithium ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1197-1205	5.8	14
118	Cycle Performances of Si-flake-powder Anodes in Lithium Salt-tetraglyme Complex Electrolytes. <i>Electrochemistry</i> , <b>2015</b> , 83, 837-839	1.2	14
117	Influence of defects on the phase-boundary movement in a stage transformation of lithium-graphite intercalation compounds. <i>Carbon</i> , <b>1999</b> , 37, 1591-1598	10.4	14
116	Solvation-controlled ester-based concentrated electrolyte solutions for high-voltage lithium-ion batteries. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 9, 49-55	7.2	13
115	Enhancement of anode activity at Ni/Sm-doped CeO <sub>2</sub> cermet anodes by Mo addition in NH <sub>3</sub> -fueled solid oxide fuel cells. <i>Solid State Ionics</i> , <b>2016</b> , 285, 222-226	3.3	13
114	Adsorbed Water on Nano-Silicon Powder and Its Effects on Charge and Discharge Characteristics as Anode in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A6084-A6087	3.9	13
113	Development of Highly Active and Durable Platinum Core-shell Catalysts for Polymer Electrolyte Fuel Cells. <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 55-63	1	13
112	New iodide-based molten salt systems for high temperature molten salt batteries. <i>Journal of Power Sources</i> , <b>2009</b> , 194, 1180-1183	8.9	13
111	Application of the Solid Polymer Electrolyte Method to Organic Electrochemistry: XIV . Effects of Solvents on the Electroreduction of Nitrobenzene on Cu, Pt-Nafion. <i>Journal of the Electrochemical Society</i> , <b>1993</b> , 140, 19-22	3.9	13
110	Silicon Nano-flake Powder as an Anode for The Next Generation Lithium-ion Batteries: Current Status and Challenges. <i>Electrochemistry</i> , <b>2017</b> , 85, 623-629	1.2	12
109	Surface Film Formation on Graphite Negative Electrode at Elevated Temperatures. <i>Electrochemistry</i> , <b>2003</b> , 71, 1132-1135	1.2	12
108	Electrolysis of mixed melt of (CH <sub>3</sub> ) <sub>4</sub> NF <sub>4</sub> BF <sub>4</sub> +x wt.% CsF <sub>2</sub> ·2.0HF with nickel anode. <i>Electrochimica Acta</i> , <b>2004</b> , 49, 2131-2137	6.7	12
107	Enhancement of Oxygen Reduction Reaction Activity of Pd Core-Pt Shell Structured Catalyst on a Potential Cycling Accelerated Durability Test. <i>Electrocatalysis</i> , <b>2018</b> , 9, 125-138	2.7	12
106	Electronic structures of partially fluorinated lithium manganese spinel oxides and their electrochemical properties. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 599-601	8.9	11
105	Shape-Controlled Platinum Nanoparticles of Different Sizes and Their Electrochemical Properties. <i>Electrocatalysis</i> , <b>2010</b> , 1, 169-177	2.7	11
104	Electrochemical STM Observation of Li <sub>[sub 1+x]</sub> Mn <sub>[sub 2]</sub> O <sub>[sub 4]</sub> Thin Films Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, A20	3.9	11
103	Stability of Pt-Ru/C Catalysts: Effects of Ru Content. <i>ECS Transactions</i> , <b>2007</b> , 11, 325-334	1	11



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98	Carbon Coating of Si Thin Flakes and Negative Electrode Properties in Lithium-Ion Batteries. <i>Electrochemistry</i> , <b>2012</b> , 80, 720-724	1.2	10
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95	Shape-controlled Silicon Particles for High-capacity Negative Electrode of Li-ion Batteries. <i>Electrochemistry</i> , <b>2010</b> , 78, 438-441	1.2	9
94	Measurement and Thermodynamic Analysis of MMF <sub>[sub n]</sub> (M=Cu and Fe) Electrode Potentials in a Few Fluoride Melts Containing HF. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, D149	3.9	9
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92	Raman scattering study of acceptor-acceptor-type graphite bi-intercalation compounds. <i>Physical Review B</i> , <b>2000</b> , 61, 11344-11347	3.3	9
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87	Surface film formation on graphite negative electrodes in rechargeable lithium batteries. <i>Macromolecular Symposia</i> , <b>2000</b> , 156, 195-202	0.8	8
86	Electrochemical Intercalation of Li into Carbon Thin Films Prepared by Plasma CVD. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 340, 517-522		8
85	Preparation of hollow YSZ fibre by electrochemical vapour deposition. <i>Solid State Ionics</i> , <b>1996</b> , 86-88, 1251-1254	3.3	8

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