

Takeshi Abe

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365
papers

11,997
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58
h-index

96
g-index

382
ext. papers

13,132
ext. citations

4.9
avg, IF

6.41
L-index

#	Paper	IF	Citations
365	Solvated Li-Ion Transfer at Interface Between Graphite and Electrolyte. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1120	3.9	391
364	Alkaline direct alcohol fuel cells using an anion exchange membrane. <i>Journal of Power Sources</i> , 2005 , 150, 27-31	8.9	304
363	Effects of Some Organic Additives on Lithium Deposition in Propylene Carbonate. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A1578	3.9	288
362	Durability of perfluorinated ionomer membrane against hydrogen peroxide. <i>Journal of Power Sources</i> , 2006 , 158, 1222-1228	8.9	267
361	A superconcentrated ether electrolyte for fast-charging Li-ion batteries. <i>Chemical Communications</i> , 2013 , 49, 11194-6	5.8	258
360	In Situ Raman Study on Electrochemical Li Intercalation into Graphite. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 20-26	3.9	253
359	Kinetics of lithium ion transfer at the interface between graphite and liquid electrolytes: effects of solvent and surface film. <i>Langmuir</i> , 2009 , 25, 12766-70	4	252
358	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> , 2001 , 17, 8281-8286	4	243
357	High energy density rechargeable magnesium battery using earth-abundant and non-toxic elements. <i>Scientific Reports</i> , 2014 , 4, 5622	4.9	230
356	Improvement of natural graphite as a lithium-ion battery anode material, from raw flake to carbon-coated sphere. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1754		207
355	Electrochemical intercalation of lithium into a natural graphite anode in quaternary ammonium-based ionic liquid electrolytes. <i>Carbon</i> , 2006 , 44, 203-210	10.4	195
354	Lithium-Ion Transfer at the Interface Between Lithium-Ion Conductive Ceramic Electrolyte and Liquid Electrolyte-A Key to Enhancing the Rate Capability of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2151	3.9	182
353	High-Level Doping of Nitrogen, Phosphorus, and Sulfur into Activated Carbon Monoliths and Their Electrochemical Capacitances. <i>Chemistry of Materials</i> , 2015 , 27, 4703-4712	9.6	174
352	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> , 2001 , 148, A989	3.9	173
351	Hierarchically Porous Carbon Monoliths Comprising Ordered Mesoporous Nanorod Assemblies for High-Voltage Aqueous Supercapacitors. <i>Chemistry of Materials</i> , 2016 , 28, 3944-3950	9.6	160
350	Electrochemical Scanning Tunneling Microscopy Observation of Highly Oriented Pyrolytic Graphite Surface Reactions in an Ethylene Carbonate-Based Electrolyte Solution. <i>Langmuir</i> , 1996 , 12, 1535-1540	4	146
349	Suppression of dendritic lithium formation by using concentrated electrolyte solutions. <i>Electrochemistry Communications</i> , 2008 , 10, 635-638	5.1	144

348	Preparation of c-axis oriented thin films of LiCoO ₂ by pulsed laser deposition and their electrochemical properties. <i>Journal of Power Sources</i> , 2001 , 94, 175-182	8.9	140
347	Electrochemical Intercalation of Lithium Ion within Graphite from Propylene Carbonate Solutions. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A13		138
346	Graphitized Carbon Nanobeads with an Onion Texture as a Lithium-Ion Battery Negative Electrode for High-Rate Use. <i>Advanced Materials</i> , 2005 , 17, 2857-2860	24	127
345	Electrochemical Lithium Intercalation into Graphite in Dimethyl Sulfoxide-Based Electrolytes: Effect of Solvation Structure of Lithium Ion. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11680-11685	3.8	125
344	A comparative study on the impact of different glymes and their derivatives as electrolyte solvents for graphite co-intercalation electrodes in lithium-ion and sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14299-316	3.6	124
343	Lithium-ion transfer at LiMn ₂ O ₄ thin film electrode prepared by pulsed laser deposition. <i>Electrochemistry Communications</i> , 2003 , 5, 502-505	5.1	121
342	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> , 2002 , 47, 1975-1982	6.7	119
341	Stage Transformation of Lithium-Graphite Intercalation Compounds Caused by Electrochemical Lithium Intercalation. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2443-2448	3.9	119
340	Lithium Ion Transfer at the Interface between Lithium-Ion-Conductive Solid Crystalline Electrolyte and Polymer Electrolyte. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1950	3.9	112
339	Li ⁺ and Na ⁺ transfer through interfaces between inorganic solid electrolytes and polymer or liquid electrolytes. <i>Journal of Power Sources</i> , 2005 , 146, 749-752	8.9	112
338	Hierarchically Porous Li ₄ Ti ₅ O ₁₂ Anode Materials for Li- and Na-Ion Batteries: Effects of Nanoarchitectural Design and Temperature Dependence of the Rate Capability. <i>Advanced Energy Materials</i> , 2015 , 5, 1400730	21.8	111
337	Kinetics of Electrochemical Insertion and Extraction of Lithium Ion at SiO ₂ . <i>Journal of the Electrochemical Society</i> , 2010 , 157, A26	3.9	108
336	Interfacial reactions between graphite electrodes and propylene carbonate-based solutions: Electrolyte-concentration dependence of electrochemical lithium intercalation reaction. <i>Journal of Power Sources</i> , 2008 , 175, 540-546	8.9	108
335	Electro-oxidation of methanol and ethylene glycol on platinum in alkaline solution: Poisoning effects and product analysis. <i>Electrochimica Acta</i> , 2005 , 51, 1085-1090	6.7	105
334	STM study on graphite/electrolyte interface in lithium-ion batteries: solid electrolyte interface formation in trifluoropropylene carbonate solution. <i>Electrochimica Acta</i> , 1999 , 45, 99-105	6.7	100
333	Influence of Manganese Dissolution on the Degradation of Surface Films on Edge Plane Graphite Negative-Electrodes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A961-A966	3.9	94
332	Characterization of electrode/electrolyte interface for lithium batteries using in situ synchrotron X-ray reflectometry: A new experimental technique for LiCoO ₂ model electrode. <i>Journal of Power Sources</i> , 2007 , 168, 493-500	8.9	93
331	Charge transfer reaction at the lithium phosphorus oxynitride glass electrolyte/lithium cobalt oxide thin film interface. <i>Solid State Ionics</i> , 2005 , 176, 2371-2376	3.3	91

330	Effects of surface modification by MgO on interfacial reactions of lithium cobalt oxide thin film electrode. <i>Journal of Power Sources</i> , 2004 , 137, 111-116	8.9	86
329	Kinetics of Lithium-Ion Transfer at the Interface between Li _{0.35} La _{0.55} TiO ₃ and Binary Electrolytes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14528-14532	3.8	85
328	Hard Carbon Anodes for Na-Ion Batteries: Toward a Practical Use. <i>ChemElectroChem</i> , 2015 , 2, 1917-1920	4.3	83
327	Formation mechanism of alkyl dicarbonates in Li-ion cells. <i>Journal of Power Sources</i> , 2005 , 150, 208-215	8.9	81
326	Characterization of Carbon-Coated Natural Graphite as a Lithium-Ion Battery Anode Material. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A499	3.9	79
325	Facile Preparation of Monolithic LiFePO ₄ /Carbon Composites with Well-Defined Macropores for a Lithium-Ion Battery. <i>Chemistry of Materials</i> , 2011 , 23, 5208-5216	9.6	77
324	Suppression of an Alkyl Dicarboxylate Formation in Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2046	3.9	76
323	Correlation between Charge/Discharge Behavior of Graphite and Solvation Structure of the Lithium Ion in Propylene Carbonate-Containing Electrolytes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8948-8953	3.8	75
322	In Situ AFM Study of Surface Film Formation on the Edge Plane of HOPG for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25484-25489	3.8	73
321	Interfacial lithium-ion transfer at the LiMn ₂ O ₄ thin film electrode/aqueous solution interface. <i>Journal of Power Sources</i> , 2007 , 174, 695-700	8.9	70
320	Correlation Between Cointercalation of Solvents and Electrochemical Intercalation of Lithium into Graphite in Propylene Carbonate Solution. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A257	3.9	69
319	Preliminary Study on Direct Alcohol Fuel Cells Employing Anion Exchange Membrane. <i>Electrochemistry</i> , 2002 , 70, 980-983	1.2	68
318	AFM study of surface film formation on a composite graphite electrode in lithium-ion batteries. <i>Journal of Power Sources</i> , 2003 , 119-121, 555-560	8.9	68
317	Li ⁺ -Ion Transfer through the Interface between Li ⁺ -Ion Conductive Ceramic Electrolyte and Li ⁺ -Ion-Concentrated Propylene Carbonate Solution. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20135-20138	3.8	66
316	Electrochemical Insertion and Extraction of Lithium Ion at Uniform Nanosized Li _{4/3} Ti _{5/3} O ₄ Particles Prepared by a Spray Pyrolysis Method. <i>Chemistry of Materials</i> , 2005 , 17, 1580-1582	9.6	64
315	Temperature effects on the electrochemical behavior of spinel LiMn ₂ O ₄ in quaternary ammonium-based ionic liquid electrolyte. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13676-84	3.4	64
314	Compatibility of quaternary ammonium-based ionic liquid electrolytes with electrodes in lithium ion batteries. <i>Electrochimica Acta</i> , 2006 , 52, 1556-1562	6.7	62
313	Influence of the carbon surface on cathode deposits in non-aqueous Li ₂ O ₂ batteries. <i>Carbon</i> , 2012 , 50, 4794-4803	10.4	61

312	Mechanism for Electrochemical Oxidation of Highly Oriented Pyrolytic Graphite in Sulfuric Acid Solution. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1017	3.9	61
311	A new kind of all-solid-state thin-film-type lithium-ion battery developed by applying a D.C. high voltage. <i>Electrochemistry Communications</i> , 2006 , 8, 1287-1291	5.1	61
310	Perovskite-type oxides $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ for cathode catalysts in direct ethylene glycol alkaline fuel cells. <i>Journal of Power Sources</i> , 2008 , 178, 683-686	8.9	60
309	Lithium-ion transfer on a Li_xCoO_2 thin film electrode prepared by pulsed laser deposition Effect of orientation-. <i>Journal of Power Sources</i> , 2007 , 172, 933-937	8.9	59
308	Electrochemical AFM study of LiMn_2O_4 thin film electrodes exposed to elevated temperatures. <i>Journal of Power Sources</i> , 2008 , 180, 539-545	8.9	59
307	Lithium-ion transfer at interface between carbonaceous thin film electrode/electrolyte. <i>Journal of Power Sources</i> , 2004 , 127, 72-75	8.9	58
306	Charge/Discharge Behavior of Bismuth in a Liquid Electrolyte for Rechargeable Batteries Based on a Fluoride Shuttle. <i>ACS Energy Letters</i> , 2017 , 2, 1460-1464	20.1	55
305	Electrochemical oxidation of highly oriented pyrolytic graphite during potential cycling in sulfuric acid solution. <i>Journal of Power Sources</i> , 2008 , 185, 740-746	8.9	55
304	Surface and interface sciences of Li-ion batteries. <i>Progress in Surface Science</i> , 2017 , 92, 240-280	6.6	54
303	Transmission electron microscopy (TEM) analysis of two-phase reaction in electrochemical lithium insertion within EMoO_3 . <i>Solid State Ionics</i> , 2000 , 135, 95-100	3.3	53
302	Electrochemical STM observation of LiMn_2O_4 thin films prepared by pulsed laser deposition. <i>Journal of Power Sources</i> , 1999 , 81-82, 554-557	8.9	53
301	A novel all-solid-state thin-film-type lithium-ion battery with in situ prepared positive and negative electrode materials. <i>Electrochemistry Communications</i> , 2009 , 11, 413-416	5.1	52
300	New Magnesium-ion Conductive Electrolyte Solution Based on Triglyme for Reversible Magnesium Metal Deposition and Dissolution at Ambient Temperature. <i>Chemistry Letters</i> , 2014 , 43, 1788-1790	1.7	51
299	Stability of Pt-Catalyzed Highly Oriented Pyrolytic Graphite Against Hydrogen Peroxide in Acid Solution. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A58	3.9	51
298	Origin of the Electrochemical Stability of Aqueous Concentrated Electrolyte Solutions. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3299-A3303	3.9	50
297	TEM and electron tomography studies of carbon nanospheres for lithium secondary batteries. <i>Carbon</i> , 2006 , 44, 2558-2564	10.4	49
296	Electrochemical properties of LiFePO_4 thin films prepared by pulsed laser deposition. <i>Journal of Power Sources</i> , 2005 , 146, 559-564	8.9	49
295	Catalytic Roles of Perovskite Oxides in Electrochemical Oxygen Reactions in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F694-F697	3.9	48

294	Electrochemical Performance of a Bismuth Fluoride Electrode in a Reserve-Type Fluoride Shuttle Battery. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3702-A3708	3.9	48
293	Towards zinc-oxygen batteries with enhanced cycling stability: The benefit of anion-exchange ionomer for zinc sponge anodes. <i>Journal of Power Sources</i> , 2018 , 395, 195-204	8.9	48
292	Studies on electrochemical sodium storage into hard carbons with binder-free monolithic electrodes. <i>Journal of Power Sources</i> , 2016 , 318, 41-48	8.9	47
291	Electrochemical characterization of single-layer MnO ₂ nanosheets as a high-capacitance pseudocapacitor electrode. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14691		46
290	Suppression of Dendrite Formation of Zinc Electrodes by the Modification of Anion-Exchange Ionomer. <i>Electrochemistry</i> , 2012 , 80, 725-727	1.2	46
289	Reduction of charge transfer resistance at the lithium phosphorus oxynitride/lithium cobalt oxide interface by thermal treatment. <i>Journal of Power Sources</i> , 2005 , 146, 745-748	8.9	46
288	Creation of nanospaces by intercalation of alkali metals into graphite in organic solutions. <i>Synthetic Metals</i> , 2001 , 125, 153-159	3.6	46
287	Hierarchically Porous Monoliths Based on N-Doped Reduced Titanium Oxides and Their Electric and Electrochemical Properties. <i>Chemistry of Materials</i> , 2013 , 25, 3504-3512	9.6	45
286	Preparation of anion-exchange membrane by plasma polymerization and its use in alkaline fuel cells. <i>Thin Solid Films</i> , 2008 , 516, 3309-3313	2.2	44
285	Proton-Conductive Electrolyte Consisting of NH ₄ PO ₃ /TiP ₂ O ₇ for Intermediate-Temperature Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A167	3.9	44
284	Pulse voltammetric and ac impedance spectroscopic studies on lithium ion transfer at an electrolyte/Li ₄ /3Ti ₅ /3O ₄ electrode interface. <i>Analytical Chemistry</i> , 2005 , 77, 1696-700	7.8	43
283	Impact of Electrolyte on Pseudocapacitance and Stability of Porous Titanium Nitride (TiN) Monolithic Electrode. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A77-A85	3.9	42
282	Electrochemical oxidation of ethylene glycol on Pt-based catalysts in alkaline solutions and quantitative analysis of intermediate products. <i>Electrochimica Acta</i> , 2011 , 56, 7610-7614	6.7	42
281	Effect of Graphite Orientation and Lithium Salt on Electronic Passivation of Highly Oriented Pyrolytic Graphite. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A634-A641	3.9	42
280	Preparation of LiFePO ₄ Thin Films by Pulsed Laser Deposition and Their Electrochemical Properties. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A340		42
279	Pyrolysis/gas chromatography/mass spectroscopy analysis of the surface film formed on graphite negative electrode. <i>Journal of Power Sources</i> , 2001 , 97-98, 156-158	8.9	42
278	Single-step synthesis of nano-sized perovskite-type oxide/carbon nanotube composites and their electrocatalytic oxygen-reduction activities. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1913-1917		41
277	Spectroscopic Characterization of Surface Films Formed on Edge Plane Graphite in Ethylene Carbonate-Based Electrolytes Containing Film-Forming Additives. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1786-A1790	3.9	41

- 276 Temperature dependence of the electrochemical behavior of LiCoO₂ in quaternary ammonium-based ionic liquid electrolyte. *Solid State Ionics*, **2005**, 176, 2219-2226 3.3 41
- 275 In Situ Atomic Force Microscopy Study on Lithium Deposition on Nickel Substrates at Elevated Temperatures. *Journal of the Electrochemical Society*, **2002**, 149, A385 3.9 41
- 274 Lithium-ion transfer at an electrolyte/non-graphitizable carbon electrode interface. *Carbon*, **2004**, 42, 3183-3187 10.4 39
- 273 Electrochemical AFM Observation of the HOPG Edge Plane in Ethylene Carbonate-Based Electrolytes Containing Film-Forming Additives. *Journal of the Electrochemical Society*, **2012**, 159, A1292-A1297 3.9 37
- 272 Sodium-ion transfer at the interface between ceramic and organic electrolytes. *Journal of Power Sources*, **2010**, 195, 7466-7470 8.9 37
- 271 Preparation of alkali metal graphite intercalation compounds in organic solvents. *Journal of Physics and Chemistry of Solids*, **1996**, 57, 799-803 3.9 37
- 270 Use of layered double hydroxides to improve the triple phase boundary in anion-exchange membrane fuel cells. *Journal of Power Sources*, **2010**, 195, 6500-6503 8.9 36
- 269 New Insights into the Relationship between Micropore Properties, Ionic Sizes, and Electric Double-Layer Capacitance in Monolithic Carbon Electrodes. *Journal of Physical Chemistry C*, **2012**, 116, 26197-26203 3.8 35
- 268 Electrochemical Raman study of edge plane graphite negative-electrodes in electrolytes containing trialkyl phosphoric ester. *Journal of Power Sources*, **2012**, 212, 148-153 8.9 34
- 267 Charge-Transfer Reaction at the Lithium Phosphorus Oxynitride Glass Electrolyte/Lithium Manganese Oxide Thin-Film Interface and Its Stability on Cycling. *Journal of the Electrochemical Society*, **2006**, 153, A821 3.9 34
- 266 Electrochemical intercalation of bis(fluorosulfonyl)amide anions into graphite from aqueous solutions. *Electrochemistry Communications*, **2019**, 100, 26-29 5.1 33
- 265 Novel Anode Catalyst Containing Gold Nanoparticles for Use in Direct Methanol Fuel Cells. *Journal of Physical Chemistry C*, **2007**, 111, 3171-3174 3.8 33
- 264 Effects of Electrolyte Additives on the Suppression of Mn Deposition on Edge Plane Graphite for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2013**, 160, A410-A413 3.9 32
- 263 Role of edge orientation in kinetics of electrochemical intercalation of lithium-ion at graphite. *Langmuir*, **2010**, 26, 14990-4 4 32
- 262 Electrocatalytic Oxidation of Ethylene Glycol in Alkaline Solution. *Journal of the Electrochemical Society*, **2005**, 152, A729 3.9 32
- 261 Study on the decomposition mechanism of alkyl carbonate on lithium metal by pyrolysis-gas chromatography-mass spectroscopy. *Journal of Power Sources*, **2003**, 119-121, 597-603 8.9 32
- 260 Effect of co-intercalated organic solvents in graphite on electrochemical Li intercalation. *Synthetic Metals*, **2001**, 125, 249-253 3.6 30
- 259 Electrochemical properties of graphite electrode in propylene carbonate-based electrolytes containing lithium and calcium ions. *Electrochimica Acta*, **2011**, 56, 10450-10453 6.7 29

258	In situ Raman study on degradation of edge plane graphite negative-electrodes and effects of film-forming additives. <i>Journal of Power Sources</i> , 2012 , 206, 320-324	8.9	28
257	Electrochemical Intercalation/De-Intercalation of Lithium Ions at Graphite Negative Electrode in TMP-Based Electrolyte Solution. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A2089-A2091	3.9	28
256	Kinetics of Lithium-Ion Transfer at the Interface between Li ₄ Ti ₅ O ₁₂ Thin Films and Organic Electrolytes. <i>ECS Electrochemistry Letters</i> , 2014 , 3, A83-A86		27
255	Proton conductivity of (NH ₄) ₂ TiP ₄ O ₁₃ -based material for intermediate temperature fuel cells. <i>Electrochemistry Communications</i> , 2004 , 6, 180-182	5.1	27
254	Low-temperature synthesis of graphitized nanofibers for reversible lithium-ion insertion/extraction. <i>Electrochemistry Communications</i> , 2005 , 7, 10-13	5.1	27
253	Electrochemical Properties of Carbonaceous Thin Films Prepared by Plasma Chemical Vapor Deposition. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A1260	3.9	27
252	Lithium-ion transfer at the interfaces between LiCoO ₂ and LiMn ₂ O ₄ thin film electrodes and organic electrolytes. <i>Journal of Power Sources</i> , 2015 , 294, 460-464	8.9	26
251	Electrochemical properties of LiCoPO ₄ -thin film electrodes in LiF-based electrolyte solution with anion receptors. <i>Journal of Power Sources</i> , 2016 , 306, 753-757	8.9	26
250	Electrochemical properties of lead fluoride electrode in fluoride shuttle battery. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 826, 60-64	4.1	26
249	Influence of Electrolyte Composition on the Electrochemical Reaction Mechanism of Bismuth Fluoride Electrode in Fluoride Shuttle Battery. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10246-10252	3.8	25
248	Enhanced resistance to oxidative decomposition of aqueous electrolytes for aqueous lithium-ion batteries. <i>Chemical Communications</i> , 2016 , 52, 4979-82	5.8	25
247	Improvement of cycling performance in bismuth fluoride electrodes by controlling electrolyte composition in fluoride shuttle batteries. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 1205-1211	2.6	25
246	Synthesis and electrochemical performance of hierarchically porous N-doped TiO ₂ for Li-ion batteries. <i>New Journal of Chemistry</i> , 2014 , 38, 1380	3.6	25
245	Triphenylboroxine and Triphenylborane as Anion Acceptors for Electrolyte in Fluoride Shuttle Batteries. <i>Chemistry Letters</i> , 2018 , 47, 1346-1349	1.7	25
244	In Situ Raman Spectroscopic Studies on Concentration of Electrolyte Salt in Lithium-Ion Batteries by Using Ultrafine Multifiber Probes. <i>ChemSusChem</i> , 2017 , 10, 855-861	8.3	24
243	Electrochemical Intercalation of Bis(fluorosulfonyl)amide Anion into Graphite. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A499-A503	3.9	24
242	Electrochemical Oxidation of Highly Oriented Pyrolytic Graphite in Sulphuric Acid Solution under Potential Pulse Condition. <i>Fuel Cells</i> , 2009 , 9, 284-290	2.9	24
241	Lithium-ion transfer at a solid polymer electrolyte/non-graphitizable carbon electrode interface. <i>Journal of Power Sources</i> , 2005 , 142, 329-332	8.9	24

240	Plasma etching of SiC surface using NF ₃ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 1254-1260	2.9	24
239	Lithium-Ion Transfer at an Electrolyte/Heat-Treated Nongraphitizable Carbon Electrode Interface. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1521	3.9	23
238	Effects of LiBOB on salt solubility and BiF ₃ electrode electrochemical properties in fluoride shuttle batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8559-8567	13	22
237	Improved electrochemical performances in a bismuth fluoride electrode prepared using a high energy ball mill with carbon for fluoride shuttle batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 839, 173-176	4.1	21
236	Observation of the intercalation of dimethyl sulfoxide-solvated lithium ion into graphite and decomposition of the ternary graphite intercalation compound using in situ Raman spectroscopy. <i>Electrochimica Acta</i> , 2018 , 265, 41-46	6.7	21
235	Influence of surfactants as additives to electrolyte solutions on zinc electrodeposition and potential oscillation behavior. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 1067-1073	2.6	21
234	Ion Transport in Organic Electrolyte Solution through the Pore Channels of Anodic Nanoporous Alumina Membranes. <i>Electrochimica Acta</i> , 2016 , 199, 380-387	6.7	21
233	Study of the Decomposition of Propylene Carbonate on Lithium Metal Surface by Pyrolysis-Gas Chromatography-Mass Spectroscopy. <i>Langmuir</i> , 2003 , 19, 814-821	4	21
232	Surface modification of graphitized carbonaceous materials by electropolymerization of thiophene and their effects on electrochemical properties. <i>Carbon</i> , 2005 , 43, 2352-2357	10.4	21
231	Nucleation and phase-boundary movement upon stage transformation in lithium-graphite intercalation compounds. <i>Electrochimica Acta</i> , 1999 , 45, 865-871	6.7	21
230	STM Study of Well-Defined Graphite/Electrolyte Interface Polarized in Propylene Carbonate Solution Containing 12-Crown-4. <i>Electrochemistry</i> , 1999 , 67, 1153-1155	1.2	21
229	In situ Raman investigation of electrolyte solutions in the vicinity of graphite negative electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27486-27492	3.6	20
228	Electrochemical AFM Study of Surface Films Formed on the HOPG Edge Plane in Propylene Carbonate-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A678-A683	3.9	20
227	Difference of rate performance between discharge and charge reactions for bismuth fluoride electrode in lithium-ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 806, 82-87	4.1	20
226	A simple method of electrochemical lithium intercalation within graphite from a propylene carbonate-based solution. <i>Electrochemistry Communications</i> , 2013 , 31, 24-27	5.1	20
225	Potassium Salts. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A115		20
224	Surface film formation on nickel electrodes in a propylene carbonate solution at elevated temperatures. <i>Journal of Power Sources</i> , 2002 , 108, 163-173	8.9	20
223	Lithium-ion intercalation and deintercalation behaviors of graphitized carbon nanospheres. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1128-1137	13	19

222	Ultrafine Fiber Raman Probe with High Spatial Resolution and Fluorescence Noise Reduction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2585-2591	3.8	19
221	Evolution of Reactions of a Fluoride Shuttle Battery at the Surfaces of BiF Microclusters Studied by In Situ Raman Microscopy. <i>ChemSusChem</i> , 2019 , 12, 527-534	8.3	19
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