Itaru Honma

List of Publications by Year
in descending order

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		8159	7718
302	25,076	76	150
papers	citations	h-index	g-index

304	304	304	25626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large Reversible Li Storage of Graphene Nanosheet Families for Use in Rechargeable Lithium Ion Batteries. Nano Letters, 2008, 8, 2277-2282.	4.5	2,694
2	Enhanced Cyclic Performance and Lithium Storage Capacity of SnO₂/Graphene Nanoporous Electrodes with Three-Dimensionally Delaminated Flexible Structure. Nano Letters, 2009, 9, 72-75.	4.5	1,615
3	Enhanced Electrocatalytic Activity of Pt Subnanoclusters on Graphene Nanosheet Surface. Nano Letters, 2009, 9, 2255-2259.	4.5	1,041
4	Biomimetic Pathways for Assembling Inorganic Thin Films. Science, 1996, 273, 892-898.	6.0	740
5	Nanosize Effect on High-Rate Li-Ion Intercalation in LiCoO2Electrode. Journal of the American Chemical Society, 2007, 129, 7444-7452.	6.6	690
6	Lithium Storage in Ordered Mesoporous Carbon (CMK-3) with High Reversible Specific Energy Capacity and Good Cycling Performance. Advanced Materials, 2003, 15, 2107-2111.	11.1	570
7	Synthesis of Single Crystalline Spinel LiMn₂O₄ Nanowires for a Lithium Ion Battery with High Power Density. Nano Letters, 2009, 9, 1045-1051.	4.5	493
8	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenumÂsulfide. Nature Materials, 2016, 15, 640-646.	13.3	490
9	Superhydrophobic Perpendicular Nanopin Film by the Bottom-Up Process. Journal of the American Chemical Society, 2005, 127, 13458-13459.	6.6	401
10	The Fabrication of an Upright-Standing Zinc Oxide Nanosheet for Use in Dye-Sensitized Solar Cells. Advanced Materials, 2005, 17, 2091-2094.	11.1	342
11	Ultrathin Nanosheets of Li₂MSiO₄ (M = Fe, Mn) as High-Capacity Li-Ion Battery Electrode. Nano Letters, 2012, 12, 1146-1151.	4.5	323
12	Particle size dependence of the lithium storage capability and high rate performance of nanocrystalline anatase TiO2 electrode. Journal of Power Sources, 2007, 166, 239-243.	4.0	318
13	Layerâ€byâ€Layer Films of Graphene and Ionic Liquids for Highly Selective Gas Sensing. Angewandte Chemie - International Edition, 2010, 49, 9737-9739.	7.2	296
14	Design and synthesis of self-ordered mesoporous nanocomposite through controlled in-situ crystallization. Nature Materials, 2004, 3, 65-72.	13.3	288
15	A Self-Ordered, Crystalline-Glass, Mesoporous Nanocomposite for Use as a Lithium-Based Storage Device with Both High Power and High Energy Densities. Angewandte Chemie - International Edition, 2005, 44, 797-802.	7.2	288
16	Hydrothermal and Solvothermal Process Towards Development of LiMPO₄ (M = Fe, Mn) Nanomaterials for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 284-297.	10.2	287
17	Controlled synthesis and quantum-size effect in gold-coated nanoparticles. Physical Review B, 1994, 50, 12052-12056.	1.1	231
18	Ultrasound-Triggered Smart Drug Release from a Poly(dimethylsiloxane)â€“ Mesoporous Silica Composite. Advanced Materials, 2006, 18, 3083-3088.	11.1	223

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19	Synthesis of MnO2 Nanoparticles Confined in Ordered Mesoporous Carbon Using a Sonochemical Method. Advanced Functional Materials, 2005, 15, 381-386.	7.8	222
20	Quantum confinement in semiconductor heterostructure nanometer-size particles. Physical Review B, 1993, 47, 1359-1365.	1.1	215
21	Electrochemical capacitance of self-ordered mesoporous carbon. Journal of Power Sources, 2003, 122, 219-223.	4.0	214
22	Superhydrophilic Graphene-Loaded TiO₂ Thin Film for Self-Cleaning Applications. ACS Applied Materials & Interfaces, 2013, 5, 207-212.	4.0	210
23	Synthesis of Mesoporous Thin TiO2 Films with Hexagonal Pore Structures Using Triblock Copolymer Templates. Advanced Materials, 2001, 13, 1377-1380.	11.1	206
24	Protonic conducting organic/inorganic nanocomposites for polymer electrolyte membrane. Journal of Membrane Science, 2001, 185, 83-94.	4.1	203
25	Properties of selected sulfonated polymers as proton-conducting electrolytes for polymer electrolyte fuel cells. Solid State Ionics, 2002, 147, 189-194.	1.3	202
26	Simultaneous voltammetric detection of dopamine and uric acid at their physiological level in the presence of ascorbic acid using poly(acrylic acid)-multiwalled carbon-nanotube composite-covered glassy-carbon electrode. Biosensors and Bioelectronics, 2007, 23, 74-80.	5.3	199
27	Fast Li-Ion Insertion into Nanosized LiMn₂O₄ without Domain Boundaries. ACS Nano, 2010, 4, 741-752.	7.3	194
28	Switching Redox-Active Sites by Valence Tautomerism in Prussian Blue Analogues A_xMn_y[Fe(CN)₆]Â·nH₂O (A: K, Rb): Robust Frameworks for Reversible Li Storage. Journal of Physical Chemistry Letters, 2010, 1, 2063-2071.	2.1	179
29	Anhydrous proton conducting polymer electrolytes based on poly(vinylphosphonic acid)-heterocycle composite material. Polymer, 2005, 46, 2986-2992.	1.8	176
30	Biosensing Properties of TitanateNanotube Films: Selective Detection of Dopamine in the Presence of Ascorbate and Uric Acid. Advanced Functional Materials, 2006, 16, 371-376.	7.8	176
31	Direct Electrochemistry of Myoglobin in Titanate Nanotubes Film. Analytical Chemistry, 2005, 77, 8068-8074.	3.2	168
32	Rapid and Direct Conversion of Graphite Crystals into Highâ€Yielding, Goodâ€Quality Graphene by Supercritical Fluid Exfoliation. Chemistry - A European Journal, 2010, 16, 6488-6494.	1.7	167
33	Effect of particle dispersion on high rate performance of nano-sized Li4Ti5O12 anode. Electrochimica Acta, 2007, 52, 6470-6475.	2.6	164
34	Protonic conducting properties of sol-gel derived organic/inorganic nanocomposite membranes doped with acidic functional molecules. Solid State Ionics, 1999, 120, 255-264.	1.3	162
35	Rechargeable quasi-solid state lithium battery with organic crystalline cathode. Scientific Reports, 2012, 2, 453.	1.6	155
36	Synthesis of organic/inorganic nanocomposites protonic conducting membrane through sol-gel processes. Solid State Ionics, 1999, 118, 29-36.	1.3	148

#	Article	IF	Citations
37	Ordered Porous Carbon with Tailored Pore Size for Electrochemical Hydrogen Storage Application. Journal of Physical Chemistry B, 2006, 110, 4875-4880.	1.2	147
38	Synthesis of the CoOOH fine nanoflake film with the high rate capacitance property. Journal of Power Sources, 2006, 158, 779-783.	4.0	147
39	Coated semiconductor nanoparticles; the cadmium sulfide/lead sulfide system's synthesis and properties. The Journal of Physical Chemistry, 1993, 97, 895-901.	2.9	142
40	Nanocrystalline Rutile TiO[sub 2] Electrode for High-Capacity and High-Rate Lithium Storage. Electrochemical and Solid-State Letters, 2007, 10, A127.	2.2	141
41	Ultrathin SnS₂ Nanoparticles on Graphene Nanosheets: Synthesis, Characterization, and Li-Ion Storage Applications. Journal of Physical Chemistry C, 2012, 116, 12475-12481.	1.5	137
42	Fabrication of morphology and crystal structure controlled nanorod and nanosheet cobalt hydroxide based on the difference of oxygen-solubility between water and methanol, and conversion into Co3O4. Journal of Materials Chemistry, 2005, 15, 1938.	6.7	134
43	Preparation and rate capability of Li4Ti5O12 hollow-sphere anode material. Journal of Power Sources, 2007, 166, 514-518.	4.0	124
44	Biocompatible Batteriesâ€"Materials and Chemistry, Fabrication, Applications, and Future Prospects. Bulletin of the Chemical Society of Japan, 2018, 91, 492-505.	2.0	123
45	Poly(acrylic acid)-wrapped multi-walled carbon nanotubes composite solubilization in water: definitive spectroscopic properties. Nanotechnology, 2006, 17, 2845-2849.	1.3	121
46	Synthesis of Triaxial LiFePO₄ Nanowire with a VGCF Core Column and a Carbon Shell through the Electrospinning Method. ACS Applied Materials & Interfaces, 2010, 2, 212-218.	4.0	121
47	Surface-enhanced Raman scattering (SERS) for semiconductor microcrystallites observed in silver-cadmium sulfide hybrid particles. The Journal of Physical Chemistry, 1993, 97, 6692-6695.	2.9	118
48	Synthesis of a Perpendicular TiO2 Nanosheet Film with the Superhydrophilic Property without UV Irradiation. Langmuir, 2007, 23, 7447-7450.	1.6	118
49	Surface Photovoltage NO Gas Sensor with Properties Dependent on the Structure of the Self-Ordered Mesoporous Silicate Film. Advanced Materials, 2002, 14, 812.	11.1	116
50	Coated Semiconductor Nanoparticles: The CdS/PbS System's Photoluminescence Properties. Chemistry of Materials, 1994, 6, 1534-1541.	3.2	114
51	Organic/inorganic nano-composites for high temperature proton conducting polymer electrolytes. Solid State Ionics, 2003, 162-163, 237-245.	1.3	113
52	One-Step Synthesis of Nanoâ€"Micro Chestnut TiO₂ with Rutile Nanopins on the Microanatase Octahedron. ACS Nano, 2007, 1, 273-278.	7.3	112
53	Enhancement of the Absorption Coefficient ofcis-(NCS)2Bis(2,2â€˜-bipyridyl-4,4â€˜-dicarboxylate)ruthenium(II) Dye in Dye-Sensitized Solar Cells by a Silver Island Film. Journal of Physical Chemistry B, 1997, 101, 5153-5157.	1.2	111
54	Characterization of Gold Nanoparticles Synthesized Using Sucrose by Seeding Formation in the Solid Phase and Seeding Growth in Aqueous Solution. Journal of Physical Chemistry B, 2004, 108, 7006-7011.	1.2	111

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55	Sub-nano-Pt cluster supported on graphene nanosheets for CO tolerant catalysts in polymer electrolyte fuel cells. Journal of Power Sources, 2011, 196, 110-115.	4.0	110
56	Preparation of Nanohybrid Solid-State Electrolytes with Liquidlike Mobilities by Solidifying Ionic Liquids with Silica Particles. Chemistry of Materials, 2007, 19, 5216-5221.	3.2	108
57	Graphene anchored with Fe3O4 nanoparticles as anode for enhanced Li-ion storage. Journal of Power Sources, 2012, 217, 85-91.	4.0	104
58	Anhydrous Protonic Conductivity of a Self-Assembled Acidâ^'Base Composite Material. Journal of Physical Chemistry B, 2004, 108, 5522-5526.	1.2	103
59	Anhydrous proton conductive membrane consisting of chitosan. Electrochimica Acta, 2005, 50, 2837-2841.	2.6	102
60	Controlled synthesis of nanocrystalline Li2MnSiO4 particles for high capacity cathode application in lithium-ion batteries. Chemical Communications, 2012, 48, 2698.	2.2	102
61	Amperometric biosensor based on tyrosinase-conjugated polysacchride hybrid film: Selective determination of nanomolar neurotransmitters metabolite of 3,4-dihydroxyphenylacetic acid (DOPAC) in biological fluid. Biosensors and Bioelectronics, 2005, 21, 809-816.	5.3	98
62	A New Metastable Phase of Crystallized V2O4Â·0.25H2O Nanowires: Synthesis and Electrochemical Measurements. Advanced Materials, 2005, 17, 2964-2969.	11.1	96
63	Enhanced optical properties of metalâ€¢coated nanoparticles. Journal of Applied Physics, 1993, 73, 1043-1048.	1.1	92
64	Application of quinonic cathode compounds for quasi-solid lithium batteries. Journal of Power Sources, 2013, 221, 186-190.	4.0	91
65	Unravelling the Surface Structure of MgMn₂O₄ Cathode Materials for Rechargeable Magnesium-Ion Battery. Chemistry of Materials, 2017, 29, 6245-6251.	3.2	91
66	A nanoscale meshed electrode of single-crystalline SnO for lithium-ion rechargeable batteries. Electrochemistry Communications, 2008, 10, 52-55.	2.3	90
67	Open-Mouthed Metallic Microcapsules: Exploring Performance Improvements at Agglomeration-Free Interiors. Journal of the American Chemical Society, 2010, 132, 14415-14417.	6.6	89
68	High Temperature Proton Conducting Organic/Inorganic Nanohybrids for Polymer Electrolyte Membrane. Journal of the Electrochemical Society, 2002, 149, A953.	1.3	88
69	Proton conducting acidâ€“base mixed materials under water-free condition. Electrochimica Acta, 2003, 48, 2411-2415.	2.6	87
70	Metal-free aqueous redox capacitor via proton rocking-chair system in an organic-based couple. Scientific Reports, 2014, 4, 3591.	1.6	87
71	A Biopolymer Composite Material as an Anhydrous Proton-Conducting Membrane. Angewandte Chemie - International Edition, 2004, 43, 3688-3691.	7.2	84
72	Determination of Activation Energy for Li Ion Diffusion in Electrodes. Journal of Physical Chemistry B, 2009, 113, 2840-2847.	1.2	84

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73	Ionâ€Induced Transformation of Magnetism in a Bimetallic CuFe Prussian Blue Analogue. Angewandte Chemie - International Edition, 2011, 50, 6269-6273.	7.2	84
74	Electrical conductivity of a pure C60single crystal. Applied Physics Letters, 1992, 61, 2162-2163.	1.5	80
75	Direct preparation of 1-PSA modified graphenenanosheets by supercritical fluidic exfoliation and its electrochemical properties. Journal of Materials Chemistry, 2011, 21, 3462-3466.	6.7	79
76	Synthesis of single crystalline electro-conductive Na0.44MnO2 nanowires with high aspect ratio for the fast chargeâ€“discharge Li ion battery. Journal of Power Sources, 2008, 182, 349-352.	4.0	78
77	Size and shape controlled LiMnPO4 nanocrystals by a supercritical ethanol process and their electrochemical properties. Journal of Materials Chemistry, 2011, 21, 15813.	6.7	74
78	Direct Observation of Antisite Defects in LiCoPO₄ Cathode Materials by Annular Dark- and Bright-Field Electron Microscopy. ACS Applied Materials & Interfaces, 2013, 5, 9926-9932.	4.0	74
79	Application of a cubic-like mesoporous silica film to a surface photovoltage gas sensing system. Microporous and Mesoporous Materials, 2002, 54, 269-276.	2.2	72
80	Supercritical fluid assisted synthesis of N-doped graphene nanosheets and their capacitance behavior in ionic liquid and aqueous electrolytes. Journal of Materials Chemistry A, 2014, 2, 4731-4738.	5.2	72
81	A Self-Ordered, Crystalline Glass, Mesoporous Nanocomposite with High Proton Conductivity of 2 Ã— 10-2S cm-1at Intermediate Temperature. Journal of the American Chemical Society, 2005, 127, 13092-13093.	6.6	71
82	Heteropolyacid-Encapsulated Self-Assembled Materials for Anhydrous Proton-Conducting Electrolytes. Journal of Physical Chemistry B, 2006, 110, 20486-20490.	1.2	71
83	Synthesis of phthalocyanine-doped silica mesostructured materials by ferrocenyl surfactant. Journal of Materials Chemistry, 1998, 8, 515-516.	6.7	69
84	Directed growth of nanoarchitectured LiFePO4 electrode by solvothermal synthesis and their cathode properties. Journal of Power Sources, 2010, 195, 6167-6171.	4.0	68
85	Self-Assembly of the Mesoporous Electrode Material Li3Fe2(PO4)3 Using a Cationic Surfactant as the Template. Advanced Materials, 2004, 16, 2012-2017.	11.1	67
86	Alginic acidâ€“imidazole composite material as anhydrous proton conducting membrane. Polymer, 2004, 45, 8349-8354.	1.8	67
87	Effect of solution pH and ionic strength on the stability of poly(acrylic acid)-encapsulated multiwalled carbon nanotubes aqueous dispersion and its application for NADH sensor. Biosensors and Bioelectronics, 2006, 22, 694-699.	5.3	67
88	Proton-conducting hybrid solid electrolytes for intermediate temperature fuel cells. Solid State Ionics, 2002, 148, 607-610.	1.3	66
89	Multielectron Redox Compounds for Organic Cathode Quasi-Solid State Lithium Battery. Journal of the Electrochemical Society, 2014, 161, A6-A9.	1.3	66
90	Anhydrous Proton-Conducting Properties of Nafionâ€“1,2,4-Triazole and Nafionâ€“Benzimidazole Membranes for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2007, 154, A290.	1.3	65

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91	Exfoliated MoS₂ and MoSe₂ Nanosheets by a Supercritical Fluid Process for a Hybrid Mgâ€“Li-Ion Battery. ACS Omega, 2017, 2, 2360-2367.	1.6	64
92	Pore size controlled mesoporous silicate powder prepared by triblock copolymer templates. Materials Letters, 2002, 56, 93-96.	1.3	63
93	The high power and high energy densities Li ion storage device by nanocrystalline and mesoporous Ni/NiO covered structure. Electrochemistry Communications, 2006, 8, 284-288.	2.3	63
94	Rapid one-pot synthesis of LiMPO4 (M = Fe, Mn) colloidal nanocrystals by supercritical ethanol process. Chemical Communications, 2010, 46, 7548.	2.2	63
95	MnO2 assisted oxidative polymerization of aniline on graphene sheets: Superior nanocomposite electrodes for electrochemical supercapacitors. Journal of Materials Chemistry, 2011, 21, 16216.	6.7	63
96	Synthesis, characterization and observation of antisite defects in LiNiPO4 nanomaterials. Scientific Reports, 2015, 5, 11041.	1.6	63
97	Application of quasi-solid-state silica nanoparticlesâ€“ionic liquid composite electrolytes to all-solid-state lithium secondary battery. Journal of Power Sources, 2012, 208, 271-275.	4.0	62
98	Development of Bipolar All-solid-state Lithium Battery Based on Quasi-solid-state Electrolyte Containing Tetraglyme-LiTFSA Equimolar Complex. Scientific Reports, 2015, 5, 8869.	1.6	62
99	Alcohol-induced decomposition of Olmstead's crystalline Ag(<scp>i</scp>)â€“fullerene heteronanostructure yields â€˜bucky cubesâ€™. Journal of Materials Chemistry C, 2013, 1, 1174-1181.	2.7	61
100	High temperature proton conducting hybrid polymer electrolyte membranes. Solid State Ionics, 2002, 154-155, 707-712.	1.3	60
101	Layer-by-Layer Fabrication and Characterization of Gold-Nanoparticle/Myoglobin Nanocomposite Films. Advanced Functional Materials, 2006, 16, 377-386.	7.8	60
102	Sonochemical synthesis of amorphous manganese oxide coated on carbon and application to high power battery. Journal of Power Sources, 2004, 125, 85-89.	4.0	59
103	Ternary metal Prussian blue analogue nanoparticles as cathode materials for Li-ion batteries. Dalton Transactions, 2013, 42, 15881.	1.6	59
104	A Sol-Gel Derived Organic/Inorganic Hybrid Membrane for Intermediate Temperature PEFC. Fuel Cells, 2002, 2, 52-58.	1.5	57
105	Disulfide-Bridged (Mo₃S₁₁) Cluster Polymer: Molecular Dynamics and Application as Electrode Material for a Rechargeable Magnesium Battery. Nano Letters, 2016, 16, 5829-5835.	4.5	57
106	Effect of Tin Addition on Mesoporous Silica Thin Film and Its Application for Surface Photovoltage NO2Gas Sensor. Analytical Chemistry, 2004, 76, 6719-6726.	3.2	55
107	Bio-Inspired Membranes for Advanced Polymer Electrolyte Fuel Cells. Anhydrous Proton-Conducting Membrane via Molecular Self-Assembly. Bulletin of the Chemical Society of Japan, 2007, 80, 2110-2123.	2.0	55
108	Synthesis of semicrystallized mesoporous TiO2 thin films using triblock copolymer templates. Materials Science and Engineering C, 2003, 23, 487-494.	3.8	54

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109	Electrochemical Properties of Nanostructured Amorphous, Sol-gel-Synthesized TiO[sub 2]/Acetylene Black Composite Electrodes. Journal of the Electrochemical Society, 2004, 151, A527.	1.3	53
110	Synthesis of Nanocrystalline Li[sub 4]Ti[sub 5]O[sub 12] by Chemical Lithiation of Anatase Nanocrystals and Postannealing. Journal of the Electrochemical Society, 2008, 155, A553.	1.3	53
111	Controlling the shape of LiCoPO4 nanocrystals by supercritical fluid process for enhanced energy storage properties. Scientific Reports, 2014, 4, 3975.	1.6	53
112	Nanocrystalline MgMnSiO4 and MgCoSiO4 particles for rechargeable Mg-ion batteries. Journal of Power Sources, 2017, 361, 195-202.	4.0	53
113	An organic proton battery employing two redox-active quinones trapped within the nanochannels of zeolite-templated carbon. Carbon, 2016, 107, 831-836.	5.4	52
114	Proton conducting polydimethylsiloxane/zirconium oxide hybrid membranes added with phosphotungstic acid. Electrochimica Acta, 2003, 48, 3633-3638.	2.6	51
115	Size effect on electrochemical property of nanocrystalline LiCoO2 synthesized from rapid thermal annealing method. Solid State Ionics, 2009, 180, 612-615.	1.3	51
116	Fabrication of Nano/Micro Hierarchical Fe[sub 2]O[sub 3]âˆ•Ni Micrometer-Wire Structure and Characteristics for High Rate Li Rechargeable Battery. Journal of the Electrochemical Society, 2006, 153, A1273.	1.3	50
117	High ionic conductivity of Mgâ€“Al layered double hydroxides at intermediate temperature (100â€“200Â°C) under saturated humidity condition (100% RH). Solid State Ionics, 2010, 181, 883-888.	1.3	49
118	Novel Amorphous Molybdenum Selenide as an Efficient Catalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 8659-8665.	4.0	49
119	Experimental and Theoretical NOxPhysisorption Analyses of Mesoporous Film (SBA-15 and SBA-16) Constructed Surface Photo Voltage (SPV) Sensor. Journal of Physical Chemistry B, 2004, 108, 13341-13346.	1.2	45
120	Organicâ€“Inorganic Hybrid Membranes for a PEMFC Operation at Intermediate Temperatures. Journal of the Electrochemical Society, 2006, 153, A508.	1.3	45
121	Anisotropic Surface Effect on Electronic Structures and Electrochemical Properties of LiCoO₂. Journal of Physical Chemistry C, 2009, 113, 15337-15342.	1.5	45
122	Development of lithium-sulfur batteries using room temperature ionic liquid-based quasi-solid-state electrolytes. Electrochimica Acta, 2014, 125, 386-394.	2.6	45
123	Ultralong single-crystal TiO2-B nanowires: Synthesis and electrochemical measurements. Chemical Physics Letters, 2006, 424, 316-320.	1.2	44
124	Synthesis of Self-Assembled Photosensitive Molecules in Mesostructured Materials. Chemistry of Materials, 1998, 10, 103-108.	3.2	43
125	Amphiphilic Organic/Inorganic Nanohybrid Macromolecules for Intermediate-Temperature Proton Conducting Electrolyte Membranes. Journal of the Electrochemical Society, 2002, 149, A1389.	1.3	43
126	Rapid discharge performance of composite electrode of hydrated sodium manganese oxide and acetylene black. Electrochimica Acta, 2004, 49, 5209-5216.	2.6	43

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127	Anhydrous solid state proton conductor based on benzimidazole/monododecyl phosphate molecular hybrids. Solid State Ionics, 2005, 176, 979-984.	1.3	43
128	Vanadium-oxide nanotubes: Synthesis and template-related electrochemical properties. Electrochemistry Communications, 2007, 9, 1766-1771.	2.3	43
129	Controlled synthesis of plate-like LiCoPO4 nanoparticles via supercritical method and their electrode property. Electrochimica Acta, 2012, 85, 548-553.	2.6	43
130	Supercritical hydrothermal synthesis of rod like Li2FeSiO4 particles for cathode application in lithium ion batteries. Electrochimica Acta, 2013, 109, 75-81.	2.6	42
131	Electrical Conductivity, Self-Diffusivity and Electrolyte Performance of a Quasi-Solid-State Pseudo-Ternary System, Bis(trifluoromethanesulfonyl)amide-Based Room Temperature Ionic Liquidâ€“Lithium Bis(trifluoromethanesulfonyl)amideâ€“Fumed Silica Nanoparticles. Journal of the Electrochemical Society, 2013, 160, A138-A147.	1.3	42
132	Synthesis and optical properties of coated nanoparticle composites. Journal of Luminescence, 1996, 70, 21-34.	1.5	41
133	Humidity sensor based on localized surface plasmon resonance of multilayer thin films of gold nanoparticles linked with myoglobin. Optics Letters, 2006, 31, 1854.	1.7	41
134	Novel processing of lithium manganese silicate nanomaterials for Li-ion battery applications. RSC Advances, 2013, 3, 608-615.	1.7	41
135	Preparation and Optical Nonlinear Property of Sol-Gel-Derived CuSiO2 Thin Films. Journal of the American Ceramic Society, 1994, 77, 1110-1112.	1.9	40
136	Separate Detection of BTX Mixture Gas by a Microfluidic Device Using a Function of Nanosized Pores of Mesoporous Silica Adsorbent. Analytical Chemistry, 2002, 74, 5257-5262.	3.2	40
137	Family of High-Temperature Polymer-Electrolyte Membranes Synthesized from Amphiphilic Nanostructured Macromolecules. Journal of the Electrochemical Society, 2003, 150, A616.	1.3	40
138	High benzene selectivity of uniform sub-nanometre pores of self-ordered mesoporous silicate. Chemical Communications, 2004, , 746.	2.2	40
139	Highly proton conducting hybrid materials synthesized from 12-phosphotungstic and hexadecyltrimethylammonium salt. Solid State Ionics, 2005, 176, 547-552.	1.3	40
140	Preparation of room temperature NO2 gas sensors based on W- and V-modified mesoporous MCM-41 thin films employing surface photovoltage technique. Sensors and Actuators B: Chemical, 2006, 114, 109-119.	4.0	39
141	Fast proton conductor under anhydrous condition synthesized from 12-phosphotungstic acid and ionic liquid. Electrochimica Acta, 2007, 53, 963-967.	2.6	39
142	Self-Assembling Functional Molecules in Mesoporous Silicate Materials: Optical Properties and Mesophase of Dye-Doped M41S. Advanced Materials, 1998, 10, 1532-1536.	11.1	38
143	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. Physical Review B, 2011, 84, .	1.1	38
144	Title is missing!. Journal of Materials Science Letters, 1998, 17, 2089-2092.	0.5	37

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145	Dye-Doped Photosensitive Mesostructure Materials. Advanced Materials, 1999, 11, 683-685.	11.1	37
146	Chemical Gas Sensor Application of Open-Pore Mesoporous Thin Films Based on Integrated Optical Polarimetric Interferometry. Analytical Chemistry, 2006, 78, 1034-1041.	3.2	37
147	High-ion conducting solidified hybrid electrolytes by the self-assembly of ionic liquids and TiO2. Chemical Communications, 2009, , 3068.	2.2	37
148	Quasi-Solid-State Lithium-Sulfur Battery Using Room Temperature Ionic Liquid-Li-salt-Fumed Silica Nanoparticle Composites as Electrolytes. Electrochemistry, 2012, 80, 765-767.	0.6	37
149	An Anhydrous Proton Conductor Based on Lactamâ€“Lactim Tautomerism of Uracil. ChemPhysChem, 2004, 5, 724-728.	1.0	36
150	Temperature Dependence of Kinetics of Methanol Electro-oxidation on PtSn Alloys. Journal of the Electrochemical Society, 2003, 150, A1689.	1.3	35
151	Methane gas storage in self-ordered mesoporous carbon (CMK-3). Chemical Physics Letters, 2004, 396, 252-255.	1.2	33
152	Surface modified LiFePO4/C nanocrystals synthesis by organic molecules assisted supercritical water process. Journal of Power Sources, 2009, 194, 1036-1042.	4.0	33
153	Relocation of Cobalt Ions in Electrochemically Delithiated LiCoPO₄ Cathode Materials. Chemistry of Materials, 2014, 26, 2770-2773.	3.2	33
154	Solidified inorganic-organic hybrid electrolyte for all solid state flexible lithium battery. Journal of Power Sources, 2017, 343, 22-29.	4.0	32
155	Nonlinear Optical Susceptibility of Fe2O3 Thin Film Synthesized by a Modified Sol-Gel Method. Journal of Sol-Gel Science and Technology, 2000, 19, 539-541.	1.1	31
156	Two-step addition of acetylene black to hydrated sodium manganese oxide: its effect on the performance of rapid discharge cathode. Journal of Power Sources, 2003, 124, 143-147.	4.0	31
157	Electrochemical biosensor based on proteinâ€“polysaccharide hybrid for selective detection of nanomolar dopamine metabolite of 3,4-dihydroxyphenylacetic acid (DOPAC). Electrochemistry Communications, 2005, 7, 233-236.	2.3	31
158	Nanoporous leaky waveguide based chemical and biological sensors with broadband spectroscopy. Applied Physics Letters, 2007, 90, 011102.	1.5	31
159	Charge/discharge mechanism of a new Co-doped Li 2 O cathode material for a rechargeable sealed lithium-peroxide battery analyzed by X-ray absorption spectroscopy. Journal of Power Sources, 2015, 287, 220-225.	4.0	31
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