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Lithium batteries: Status, prospects and future

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2302	Local Li Cation Coordination and Dynamics in Novel Solid Electrolytes. 2010 , 224, 1735-1769		9
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2299	Cobalt Oxide Nanomaterials by Vapor-Phase Synthesis for Fast and Reversible Lithium Storage. 2010 , 114, 10054-10060		54
2298	Recent development and application of Li4Ti5O12 as anode material of lithium ion battery. 2010 , 71, 1236-1242		296
2297	Ceramic and polymeric solid electrolytes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 4554-4569	.9	858
2296	All-solid-state lithium-based polymer cells for high-temperature applications. 2010 , 16, 777-786		27
2295	Effects of carbon sources on electrochemical performance of Li4Ti5O12/C composite anode materials. 2010 , 17, 1207-1210		5
2294	Moving to a solid-state configuration: a valid approach to making lithium-sulfur batteries viable for practical applications. 2010 , 22, 5198-201		360
2293	Snto artificial graphite composite as anode material for rechargeable lithium batteries. 2010 , 56, 476-482		27
2292	Effect of zwitterionic salt on the electrochemical properties of a solid polymer electrolyte with high temperature stability for lithium ion batteries. 2010 , 56, 804-809		56
2291	Carbon-coated Magnli-phase TinO2nl nanobelts as anodes for Li-ion batteries and hybrid electrochemical cells. 2010 , 97, 243104		28
2290	Structure and Stability of Sodium Intercalated Phases in Olivine FePO4. 2010 , 22, 4126-4128		377
2289	Air Dehydration Membranes for Nonaqueous LithiumAir Batteries. 2010, 157, A940		58
2288	A Nanostructured SiAl0.2O Anode Material for Lithium Batteries. 2010 , 22, 5570-5579		29
2287	Understanding the Degradation of Silicon Electrodes for Lithium-Ion Batteries Using Acoustic Emission. 2010 , 157, A1354		108
2286	A method for online capacity estimation of lithium ion battery cells using the state of charge and the transferred charge. 2010 ,		9

2285	Bottom-up in situ formation of Fe3O4 nanocrystals in a porous carbon foam for lithium-ion battery anodes. 2011 , 21, 17325	194
2284	One-dimensional (1D) nanostructured and nanocomposited LiFePO4: its perspective advantages for cathode materials of lithium ion batteries. 2011 , 13, 19226-37	30
2283	Energy storage studies of bare and doped vanadium pentoxide, (V1.95M0.05)O5, M = Nb, Ta, for lithium ion batteries. 2011 , 4, 1712	106
2282	Lithium-ion batteries evaluation for telecommunication's stationary applications. 2011 ,	
2281	An investigation into the effect of thickness of titanium dioxide and goldBilver nanoparticle titanium dioxide composite thin-films on photocatalytic activity and photo-induced oxygen production in a sacrificial system. 2011 , 21, 6854	24
2280	Self-assembled lithium manganese oxide nanoparticles on carbon nanotube or graphene as high-performance cathode material for lithium-ion batteries. 2011 , 21, 17297	55
2279	In situ monitoring of voltage and temperature in lithium batteries. 2011,	O
2278	Composition-Tailored Synthesis of Gradient Transition Metal Precursor Particles for Lithium-Ion Battery Cathode Materials. 2011 , 23, 1954-1963	92
2277	Growth of Well-Developed Li4Ti5O12Crystals by the Cooling of a Sodium Chloride Flux. 2011 , 11, 4401-4405	35
2276	Electrochemical Properties of NaTi2(PO4)3 Anode for Rechargeable Aqueous Sodium-Ion Batteries. 2011 , 158, A1067	302
2275	Reversible Electrochemical Conversion Reaction of Li2O/CuO Nanocomposites and Their Application as High-Capacity Cathode Materials for Li-Ion Batteries. 2011 , 115, 6167-6174	39
2274	Iron sulfide-embedded carbon microsphere anode material with high-rate performance for lithium-ion batteries. 2011 , 47, 8653-5	145
2273	Density, Excess Molar Volume and Conductivity of Binary Mixtures of the Ionic Liquid 1,2-Dimethyl-3-hexylimidazolium Bis(trifluoromethylsulfonyl)imide and Dimethyl Carbonate. 2011 , 56, 27-30	34
2272	Comparing one- and two-dimensional heteronanostructures as silicon-based lithium ion battery anode materials. 2011 , 5, 9225-31	66
2271	Dynamical Aspects of Lithiation of a Nanosized Silicon Cluster. 2011 , 115, 25160-25164	7
2270	Life cycle environmental assessment of lithium-ion and nickel metal hydride batteries for plug-in hybrid and battery electric vehicles. 2011 , 45, 4548-54	403
2269	Hydrothermal carbonization of biomass residuals: a comparative review of the chemistry, processes and applications of wet and dry pyrolysis. 2011 , 2, 71-106	1013
2268	A high-rate long-life Li4Ti5O12/Li[Ni0.45Co0.1Mn1.45]O4 lithium-ion battery. 2011 , 2, 516	301

2267	Battery technologies for large-scale stationary energy storage. 2011 , 2, 503-27		296
2266	Rechargeable Aqueous Lithium-Ion Battery of TiO2IIiMn2O4 with a High Voltage. 2011 , 158, A1490		61
2265	Morphology Dependence of the Lithium Storage Capability and Rate Performance of Amorphous TiO2 Electrodes. 2011 , 115, 2585-2591		80
2264	Effects of self-assembled materials prepared from V2O5 for lithium ion electroinsertion. 2011 , 27, 1220	9-17	10
2263	Transient analysis of ambient vibration-based micro-electro-mechanical systems (MEMS) piezoelectric energy harvester using ANSYS and COVENTORWARE approaches. 2011 ,		
2262	Temperature-sensitive cathode materials for safer lithium-ion batteries. 2011 , 4, 2845		55
2261	Nanocrystalline porous 且iFeO2© composite⊞n environmentally friendly cathode for the lithium-ion battery. 2011 , 4, 952-957		54
2260	Utilizing an ionic liquid for synthesizing a soft matter polymer gellelectrolyte for high rate capability lithium-ion batteries. 2011 , 21, 17419		52
2259	Lithium-ion batteries. A look into the future. 2011 , 4, 3287		1906
2258	Economic and Environmental Optimization of Vehicle Fleets: Impact of Policy, Market, Utilization, and Technological Factors. 2011 , 2252, 1-6		23
2257	Organic Radical Battery Approaching Practical Use. 2011 , 40, 222-227		222
2256	Kinetics of lithium deintercalation from LiFePO4. 2011 , 47, 303-307		18
2255	A lithium ion battery using nanostructured SnII anode, LiFePO4 cathode and polyethylene oxide-based electrolyte. 2011 , 202, 36-39		35
2254	Effect of Y substitution for Nb in Li5La3Nb2O12 on Li ion conductivity of garnet-type solid electrolytes. <i>Journal of Power Sources</i> , 2011 , 196, 8085-8090	8.9	44
2253	Improved electrochemical activity of LiMnPO4 by high-energy ball-milling. <i>Journal of Power Sources</i> , 2011 , 196, 8104-8109	8.9	42
2252	Self-discharge behavior and its temperature dependence of carbon electrodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 8598-8603	8.9	41
2251	Influence of particle size on the self-discharge behavior of graphite electrodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 8675-8682	8.9	23
2250	Microfibrillated cellulose as reinforcement for Li-ion battery polymer electrolytes with excellent mechanical stability. <i>Journal of Power Sources</i> , 2011 , 196, 10280-10288	8.9	89

2249	Evaluation of commercial lithium-ion cells based on composite positive electrode for plug-in hybrid electric vehicle applications. Part I: Initial characterizations. <i>Journal of Power Sources</i> , 2011 , 196, 10328-10	5335	161
2248	Evaluation of commercial lithium-ion cells based on composite positive electrode for plug-in hybrid electric vehicle applications. Part II. Degradation mechanism under 2C cycle aging. <i>Journal of Power Sources</i> , 2011 , 196, 10336-10343	3.9	165
2247	Electrochemistry and safety of Li4Ti5O12 and graphite anodes paired with LiMn2O4 for hybrid electric vehicle Li-ion battery applications. <i>Journal of Power Sources</i> , 2011 , 196, 10344-10350	3.9	119
2246	A Current Equalization Method for Serially Connected Battery Cells Using a Single Power Converter for Each Cell. 2011 , 60, 4227-4237		103
2245	Ordered mesoporous SnII composite as an anode material for lithium ion batteries. 2011 , 13, 848-851		43
2244	Poly(vinylpyridine-co-styrene) based in situ cross-linked gel polymer electrolyte for lithium-ion polymer batteries. 2011 , 57, 46-51		22
2243	Enhanced high rate capability of dual-phase Li4Ti5O12TiO2 induced by pseudocapacitive effect. 2011 , 56, 9152-9158		90
2242	Synthesis and characterization of new trifluoroalkoxyborates lithium salts of ionic liquid properties. 2011 , 57, 66-73		12
2241	Rapid synthesis of binary ENISENIS by microwave autoclave for rechargeable lithium batteries. 2011 , 58, 456-462		57
2240	Low temperature combustion synthesis and performance of spherical 0.5Li2MnO3liNi0.5Mn0.5O2 cathode material for Li-ion batteries. 2011 , 175, 579-584		36
2239	Silicon nanopowder as active material for hybrid electrodes of lithium-ion batteries. 2011 , 84, 1179-1187		11
2238	Determination of diffusion coefficient of lithium in LiM y Mn2 IJy O4 spinels using potentiostatic intermittent titration technique. 2011 , 47, 1043-1048		4
2237	Hydrothermal synthesis of ultra-thin LiFePO4 platelets for Li-ion batteries. 2011 , 46, 4906-4912		21
2236	Laser micro-structuring of magnetron-sputtered SnOx thin films as anode material for lithium ion batteries. 2011 , 17, 225-232		28
2235	A review of the electrochemical performance of alloy anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 13-24	3.9	1594
2234	Preparation and characterization of core-shell battery materials for Li-ion batteries manufactured by substrate induced coagulation. <i>Journal of Power Sources</i> , 2011 , 196, 3290-3295	3.9	12
2233	Characteristics of mechanochemically prepared host@uest hybrid nanocomposites of vanadium oxide and conducting polymers. <i>Journal of Power Sources</i> , 2011 , 196, 3331-3341	3.9	32
2232	Challenges and options for a large wind power uptake by the European electricity system. 2011 , 88, 1461	-1469	9 85

2231	Synthesis of networked polymers by copolymerization of monoepoxy-substituted lithium sulfonylimide and diepoxy-substituted poly(ethylene glycol), and their properties. 2011 , 49, 1874-1880		42
2230	Electrochemical Analysis of Conductive Polymer-Coated LiFePO4 Nanocrystalline Cathodes with Controlled Morphology. 2011 , 23, 2079-2086		35
2229	Ionic liquid-based membranes as electrolytes for advanced lithium polymer batteries. 2011 , 4, 125-30		64
2228	A Li-liquid cathode battery based on a hybrid electrolyte. 2011 , 4, 1087-90		70
2227	Lithium-ion conducting electrolyte salts for lithium batteries. 2011 , 17, 14326-46		268
2226	Ionische Fl\(\text{B}\)sigkeiten in der elektrochemischen Abscheidung (Potenzial und Herausforderungen. 2011 , 83, 1485-1492		14
2225	Modeling and simulation of lithium-ion batteries. 2011 , 35, 1937-1948		46
2224	Modeling the prospects of plug-in hybrid electric vehicles to reduce CO2 emissions. 2011 , 88, 2315-232	3	155
2223	MnO2 nanoflakes coated on multi-walled carbon nanotubes for rechargeable lithium-air batteries. 2011 , 13, 698-700		132
2222	Improvement of electrochemical and thermal stability of LiFePO4@C batteries by depositing amorphous silicon film. 2011 , 56, 4937-4941		5
2221	Identification of LiNi0.5Mn1.5O4 spinel in layered manganese enriched electrode materials. 2011 , 13, 232-236		52
2220	Electrochemical reaction of lithium with CoCl2 in nonaqueous electrolyte. 2011 , 13, 269-271		33
2219	Hollow lithiated metal oxide particles as lithium-ion battery cathode materials. 2011 , 56, 1426-1431		23
2218	Properties of Li-graphite and LiFePO4 electrodes in LiPF6Bulfolane electrolyte. 2011 , 56, 5972-5978		27
2217	A new rechargeable lithium-ion battery with a xLi2MnO3[(1 fk) LiMn0.4Ni0.4Co0.2O2 cathode and a hard carbon anode. 2011 , 56, 7392-7396		51
2216	Gel polymer electrolytes based on active PVDF separator for lithium ion battery. I: Preparation and property of PVDF/poly(dimethylsiloxane) blending membrane. 2011 , 379, 397-402		98
2215	Electrochemical synthesis of macroporous aluminium films and their behavior towards lithium deposition/stripping. <i>Journal of Power Sources</i> , 2011 , 196, 2879-2883	8.9	43
2214	Structure and performance of LiFePO4 cathode materials: A review. <i>Journal of Power Sources</i> , 2011 , 196, 2962-2970	8.9	420

2213	Use of strontium titanate (SrTiO3) as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 7736-7741	8.9	21	
2212	Fabrication of all-solid-state lithium battery with lithium metal anode using Al2O3-added Li7La3Zr2O12 solid electrolyte. <i>Journal of Power Sources</i> , 2011 , 196, 7750-7754	8.9	261	
2211	Synthesis and evaluation of polythiocyanogen (SCN)x as a rechargeable lithium-ion battery electrode material. <i>Journal of Power Sources</i> , 2011 , 196, 7755-7759	8.9	21	
2210	Methacrylic-based solid polymer electrolyte membranes for lithium-based batteries by a rapid UV-curing process. 2011 , 71, 409-416		58	
2209	Nanocrystalline lithiumthanganese oxide spinels for Li-ion batteries tol-gel synthesis and characterization of their structure and selected physical properties. 2011 , 188, 160-164		36	
2208	Membranes for lithium batteries. 2011 , 435-464		2	
2207	Comparison of electrical battery models using a numerically optimized parameterization method. 2011 ,		11	
2206	Aerosol technology and Si nano-composite electrode assembly for Li-ion batteries. 2011 , 1313, 139101			
2205	Laser processing of SnO 2 electrode materials for manufacturing of 3D micro-batteries. 2011 ,		3	
2204	Green energy storage materials: advanced nanostructured materials for lithium-ion batteries. 2011,		1	
2203	Ionomer Binders Can Improve Discharge Rate Capability in Lithium-Ion Battery Cathodes. 2011 , 158, A207		24	
2202	EVOLUTION OF MICROSTRUCTURE AND PHASE COMPOSITION UPON ANNEALING OF LIFePO4 PREPARED BY A LOW TEMPERATURE METHOD. 2011 , 04, 117-122		8	
2201	Laser-assisted surface engineering of thin film electrode materials for lithium-ion batteries. 2011 , 1365, 1		1	
2200	Battery Management Systems in Electric and Hybrid Vehicles. 2011 , 4, 1840-1857		242	
2199	In situ monitoring of temperature inside lithium-ion batteries by flexible micro temperature sensors. 2011 , 11, 9942-50		72	
2198	Critical Issues in the Supply Chain of Lithium for Electric Vehicle Batteries. 2012 , 24, 52-62		31	
2197	Highly reversible conversion-capacity of MnOx-loaded ordered mesoporous carbon nanorods for lithium-ion battery anodes. 2012 , 22, 17870		63	
2196	Mixtures of TiO2D.2H2O and LiFePO4 as Li-ion Battery Cathode Materials. 2012 , 512-515, 1592-1597			

2195	On the Use of Soft Carbon and Propylene Carbonate-Based Electrolytes in Lithium-Ion Capacitors. 2012 , 159, A1240-A1245	64
2194	Organic salts as super-high rate capability materials for lithium-ion batteries. 2012 , 100, 091905	33
2193	Realizing the electric-vehicle revolution. 2012 , 2, 328-333	173
2192	Experimental performance assessment of Pb, Li[NiCoMn]O2 and LiFePO4 batteries for road vehicles. 2012 ,	7
2191	Are lithium ion cells Intrinsically Safe?. 2012 ,	1
2190	In situ monitoring of temperature using flexible micro temperature sensors inside polymer lithium-ion battery. 2012 ,	6
2189	CONDUCTIVITY AND DIELECTRIC BEHAVIOR OF PLIAMPS-BASED SEMI-IPN SINGLE ION CONDUCTOR PLASTICIZED WITH POLY(SILOXANE-G-ETHYLENE OXIDE). 2012 , 02, 1250017	1
2188	A Combinatorial Study of the Sn-Si-C System for Li-Ion Battery Applications. 2012 , 159, A711-A719	26
2187	Fabrication and Characterization of Nano-Crystalline TiO2Thin Film Electrodes for Lithium Ion Batteries. 2012 , 159, A264-A268	7
2186	Demand Response for Optimisation of Power Systems Demand Due to EV Charging Load. 2012,	3
2185	On-line optimal ion conductivity control of Li-ion battery. 2012 ,	1
2184	MMA-Grafted PE Separators of Lithium-Ion Battery Prepared by UV-Radiated Grafting. 2012 , 463-464, 1378-1381	
2183	Nano-Sn/Mesoporous Carbon Parasitic Composite as Advanced Anode Material for Lithium-Ion Battery. 2012 , 159, A2092-A2095	23
2182	Preparation and study as positive electrode of Lio®3Lao®6TiO3PANI nanocomposite. 2012, 111, 480-489	1
2181	Breathing of Graphite Particles in a Lithium-Ion Battery. 2012 , 5, 047101	5
2180	Relationship between Electrochemical Pre-Treatment and Cycle Performance of a Li-Rich Solid-Solution Layered Li1^ ^minus;^ ^alpha;[Ni0.18Li0.20+^ ^alpha;Co0.03Mn0.58]O2 Cathode for Li-Ion Secondary Batteries. 2012 , 80, 561-565	14
2179	Influence of laser-generated surface structures on electrochemical performance of lithium cobalt oxide. 2012 ,	1
2178	Polymer-derived ceramics as anode material for rechargeable Li-ion batteries: a review. 2012 , 1, 324-337	20

2177	. 2012 , 48, 736-741	75
2176	Co K-edge XANES of LiCoO2 and CoO2 with a variety of structures by supercell density functional calculations with a core hole. 2012 , 85,	21
2175	Performance Degradation and Gassing of Li4Ti5O12/LiMn2O4Lithium-Ion Cells. 2012 , 159, A1165-A1170	149
2174	Themed issue: nanomaterials for energy conversion and storage. 2012 , 22, 24190	40
2173	New composite materials for lithium-ion batteries. 2012 , 84, 145-154	35
2172	Orthorhombic Bipyramidal Sulfur Coated with Polypyrrole Nanolayers As a Cathode Material for LithiumBulfur Batteries. 2012 , 116, 8910-8915	243
2171	Current status of hybrid, battery and fuel cell electric vehicles: From electrochemistry to market prospects. 2012 , 84, 235-249	354
2170	Building robust architectures of carbon and metal oxide nanocrystals toward high-performance anodes for lithium-ion batteries. 2012 , 6, 9911-9	159
2169	Charging infrastructures for EV: Overview of technologies and issues. 2012,	28
2168	Self-weaving sulfur-carbon composite cathodes for high rate lithium-sulfur batteries. 2012 , 14, 14495-9	146
2167	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. 2012 , 14, 8703-10	258
2166	Conversion of Hydroperoxoantimonate Coated Graphenes to Sb2S3@Graphene for a Superior Lithium Battery Anode. 2012 , 24, 4750-4757	128
2165	Paintable battery. 2012 , 2, 481	135
2164	Electric drive dimensioning for a hybrid working machine by using virtual prototyping. 2012 ,	5
2163	Nano-engineered Silicon Anodes for Lithium-Ion Rechargeable Batteries. 2012 , 43-66	
2162	Suppression of interface reaction of LiCoO2 thin films by Al2O3-coating. 2012 , 29, 23-28	12
2161	Low-temperature synthesis of amorphous FeP2 and its use as anodes for Li ion batteries. 2012 , 134, 5532-5	116
2160	First In Situ Observation of the LiCoO2 Electrode/Electrolyte Interface by Total-Reflection X-ray Absorption Spectroscopy. 2012 , 124, 11765-11769	19

2159	First in situ observation of the LiCoO2 electrode/electrolyte interface by total-reflection X-ray absorption spectroscopy. 2012 , 51, 11597-601	142
2158	Synthesis and electrochemical performance of three-dimensionally ordered macroporous LiCoO2. 2012 , 16, 3079-3085	8
2157	Solid electrolyte interphase formation on metallic lithium. 2012 , 16, 3391-3397	10
2156	Enhanced electrochemical properties of Li[Ni0.5Co0.2Mn0.3]O2 cathode by surface coating using LaF3 and MgF2. 2012 , 29, 163-169	25
2155	Low pressure carbon dioxide solubility in pure electrolyte solvents for lithium-ion batteries as a function of temperature. Measurement and prediction. 2012 , 50, 71-79	33
2154	Electrochemical Lithium Insertion Behavior of Combustion Synthesized V2O5Cathodes for Lithium-Ion Batteries. 2012 , 159, A273-A280	42
2153	Development of a thermal simulation and testing model for a superior lithium-ion-polymer battery. 2012 ,	7
2152	Enhancing the electrochemical performance of lithium ion batteries using mesoporous Li3V2(PO4)3/C microspheres. 2012 , 22, 5960	137
2151	Advanced electrochemical properties of Mo-doped Li4Ti5O12 anode material for power lithium ion battery. 2012 , 2, 3541	112
2150	Silicon-based nanocomposite for advanced thin film anodes in lithium-ion batteries. 2012 , 22, 1556-1561	24
2149	A dynamic battery model for simulation of battery-to-grid applications. 2012,	7
2148	One-step synthesis of a sulfur-impregnated graphene cathode for lithium-sulfur batteries. 2012 , 14, 6796-804	164
2147	Lithium batteries: current technologies and future trends. 2012 , 573-600e	
2146	Pair distribution function analysis and MBsbauer study of defects in microwave-hydrothermal LiFePO4. 2012 , 2, 250-258	25
2145	A dicranopteris-like Fe-Sn-Sb-P alloy as a promising anode for lithium ion batteries. 2012 , 48, 6854-6	37
2144	Direct assembly of tinMWCNT 3D-networked anode for rechargeable lithium ion batteries. 2012 , 2, 3315	39
2143	Nitrogen- and TiN-modified Li4Ti5O12: one-step synthesis and electrochemical performance optimization. 2012 , 22, 17773	104
2142	A new approach to improve cycle performance of rechargeable lithium-sulfur batteries by inserting a free-standing MWCNT interlayer. 2012 , 48, 8817-9	601

2141	Drastically Improved Performances of Graphite/Li1.26Mn0.52Fe0.22O2Cell with Stepwise Pre-Cycling Treatment that Causes Peroxide Forming. 2012 , 159, A1398-A1404		27	
2140	Ozone-Based Atomic Layer Deposition of Crystalline V2O5 Films for High Performance Electrochemical Energy Storage. 2012 , 24, 1255-1261		110	
2139	Variable-Temperature Scanning Tunneling Microscopy and Computational Studies Examining Water and Potassium Adsorption on Au(100). 2012 , 116, 555-562		4	
2138	Ionic liquid-nanoparticle hybrid electrolytes. 2012 , 22, 4066		118	
2137	Understanding the Interfacial Processes at SiliconCopper Electrodes in Ionic Liquid Battery Electrolyte. 2012 , 116, 14764-14771		49	
2136	Powertrain design alternatives for electric city bus. 2012 ,		10	
2135	Graphene for energy harvesting/storage devices and printed electronics. 2012, 10, 1-8		98	
2134	Opportunities and challenges for a sustainable energy future. 2012 , 488, 294-303		5810	
2133	Nanomaterials for renewable energy production and storage. 2012 , 41, 7909-37		729	
2132	Enhancing Li Ion Conductivity of Garnet-Type Li5La3Nb2O12 by Y- and Li-Codoping: Synthesis, Structure, Chemical Stability, and Transport Properties. 2012 , 116, 20154-20162		75	
2131	A Methodology for Optimization of Power Systems Demand Due to Electric Vehicle Charging Load. 2012 , 27, 1628-1636		164	
2130	Nanostructured high-energy cathode materials for advanced lithium batteries. 2012 , 11, 942-7		781	
2129	Composite Li[Li0.11Mn0.57Ni0.32]O2: Two-step molten-salt synthesis, oxidation state stabilization, and uses as high-voltage cathode for lithium-ion batteries. 2012 , 528, 121-125		24	
2128	Suppression of aluminum current collector corrosion in ionic liquid containing electrolytes. <i>Journal of Power Sources</i> , 2012 , 214, 178-184	8.9	135	
2127	Study of a graphene-like anode material in N-methyl-N-propylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid for Li-ion batteries. <i>Journal of Power Sources</i> , 2012 , 216, 5-10	8.9	6	
2126	An advanced configuration TiO2/LiFePO4 polymer lithium ion battery. <i>Journal of Power Sources</i> , 2012 , 217, 459-463	8.9	20	
2125	Selection of battery technology to support grid-integrated renewable electricity. <i>Journal of Power Sources</i> , 2012 , 216, 376-386	8.9	116	
2124	A high power Snt /CliFePO4 lithium ion battery. <i>Journal of Power Sources</i> , 2012 , 217, 72-76	8.9	58	

2123	Effect of conductive carbon on capacity of iron phthalocyanine cathodes in primary lithium batteries. <i>Journal of Power Sources</i> , 2012 , 217, 92-97	8.9	14
2122	The importance of going nanolfor high power battery materials. <i>Journal of Power Sources</i> , 2012 , 219, 217-222	8.9	53
2121	Effect of Si, In and Ge doping on high ionic conductivity of Li7La3Zr2O12. 2012 , 21, 62-64		86
2120	Corrosion/passivation of aluminum current collector in bis(fluorosulfonyl)imide-based ionic liquid for lithium-ion batteries. 2012 , 22, 1-3		108
2119	Synthesis of polycarbosilanes having a five-membered cyclic carbonate structure and their application to prepare gel polymer electrolytes for lithium ion batteries. 2012 , 50, 5161-5169		9
2118	Effects of TiO2 Starting Materials on the Solid-State Formation of Li4Ti5O12. 2012 , 95, 1894-1900		21
2117	Aqueous processing of cellulose based paper-anodes for flexible Li-ion batteries. 2012 , 22, 3227		73
2116	Electrodeposition of Lithium/Polystyrene Composite Electrodes from an Ionic Liquid: First Attempts. 2012 , 226, 121-128		8
2115	Electrochemical Energy Storage: Applications, Processes, and Trends. 2012 , 1497-1539		1
2114	Membranes in lithium ion batteries. 2012 , 2, 367-83		125
2114	Membranes in lithium ion batteries. 2012 , 2, 367-83 Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI) electrode for alkaline super-iron battery. 2012 , 99, 265-271		125
'	Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI)		
2113	Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI) electrode for alkaline super-iron battery. 2012 , 99, 265-271 All-polymer battery system based on polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) and		12
2113	Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI) electrode for alkaline super-iron battery. 2012 , 99, 265-271 All-polymer battery system based on polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) and polypyrrole (PPy)/indigo carmine (IC) free standing films. 2012 , 83, 209-215 Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via		12
2113 2112 2111	Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI) electrode for alkaline super-iron battery. 2012, 99, 265-271 All-polymer battery system based on polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) and polypyrrole (PPy)/indigo carmine (IC) free standing films. 2012, 83, 209-215 Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. 2012, 86, 323-329 Electric cars and wind energy: Two problems, one solution? A study to combine wind energy and		12 47 27
2113 2112 2111 2110	Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI) electrode for alkaline super-iron battery. 2012, 99, 265-271 All-polymer battery system based on polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) and polypyrrole (PPy)/indigo carmine (IC) free standing films. 2012, 83, 209-215 Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. 2012, 86, 323-329 Electric cars and wind energy: Two problems, one solution? A study to combine wind energy and electric cars in 2020 in The Netherlands. 2012, 45, 859-866		12 47 27 53
2113 2112 2111 2110 2109	Optimized preparation conditions of yttria doped zirconia coatings on potassium ferrate (VI) electrode for alkaline super-iron battery. 2012, 99, 265-271 All-polymer battery system based on polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) and polypyrrole (PPy)/indigo carmine (IC) free standing films. 2012, 83, 209-215 Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. 2012, 86, 323-329 Electric cars and wind energy: Two problems, one solution? A study to combine wind energy and electric cars in 2020 in The Netherlands. 2012, 45, 859-866 Origin of the irreversible capacity of the Fe0.5TiOPO4 anode material. 2012, 224, 15-20 Synthesis of boric ester type ion-gels by dehydrocoupling of cellulose with hydroboranes in ionic		12 47 27 53

2105	Polyaniline/Vanadium Pentoxide Layer-by-Layer Electrodes for Energy Storage. 2012 , 24, 181-189	94
2104	Metal-air batteries: from oxygen reduction electrochemistry to cathode catalysts. 2012 , 41, 2172-92	1978
2103	Core-shell structured sulfur-polypyrrole composite cathodes for lithium-sulfur batteries. 2012 , 2, 5927	193
2102	Highly durable SiOC composite anode prepared by electrodeposition for lithium secondary batteries. 2012 , 5, 6500	87
2101	Lithium titanate aerogel for advanced lithium-ion batteries. 2012 , 4, 2318-21	19
2100	Microstructural evolution of tin nanoparticles during in situ sodium insertion and extraction. 2012 , 12, 5897-902	434
2099	An electrochemical study on the substituted spinel LiMn1.95Cr0.05O4. 2012 , 18, 837-844	5
2098	Design and Fabrication of Addressable Microfluidic Energy Storage MEMS Device. 2012 , 21, 1392-1401	6
2097	A positive-temperature-coefficient electrode with thermal protection mechanism for rechargeable lithium batteries. 2012 , 57, 4205-4209	22
2096	Prediction of various discarded lithium batteries in China. 2012,	11
2095	Ionic conduction in poly(ethylene carbonate)-based rubbery electrolytes including lithium salts. 2012 , 44, 1155-1158	80
2094	Improved elevated temperature performance of Al-intercalated V(2)O(5) electrospun nanofibers for lithium-ion batteries. 2012 , 4, 3270-7	73
2093	MWCNT/V2O5 core/shell sponge for high areal capacity and power density Li-ion cathodes. 2012 , 6, 7948-55	219
2092	Evaluation of Battery Requirements for Hybrid and Electric City Buses. 2012 , 5, 340-349	6
2091	Microstructure Study of Si Thin Film Anode with Different Adhesion Layers for Li-Ion Batteries. 2012 ,	
2090	Vibrational Spectroscopy of Complex Synthetic and Industrial Products. 2012 ,	
2089	Conductive networked polymer gel electrolytes composed of poly(meth)acrylate, lithium salt, and ionic liquid. 2012 , 50, 1317-1324	25
2088	Performance of batteries for electric vehicles on short and longer term. <i>Journal of Power Sources</i> , 2012 , 212, 111-129	219

2087	Facile fabrication of reticular polypyrrolellilicon corellhell nanofibers for high performance lithium storage. 2012 , 22, 11636	49
2086	Highly active and durable core-corona structured bifunctional catalyst for rechargeable metal-air battery application. 2012 , 12, 1946-52	350
2085	Effects of Li/Ti ratios on the electrochemical properties of Li4Ti5O12 examined by time-resolved X-ray diffraction. 2012 , 107, 769-775	11
2084	Structural requirements for fast lithium ion migration in Li10GeP2S12. 2012 , 22, 7687	129
2083	Materials for rechargeable lithium-ion batteries. 2012 , 3, 445-71	184
2082	Aligned TiO2 Nanotube Arrays As Durable Lithium-Ion Battery Negative Electrodes. 2012 , 116, 18669-18677	109
2081	Emerging applications of atomic layer deposition for lithium-ion battery studies. 2012 , 24, 3589-615	436
2080	Li-Redox Flow Batteries Based on Hybrid Electrolytes: At the Cross Road between Li-ion and Redox Flow Batteries. 2012 , 2, 770-779	119
2079	Effects of post-treatments on the electrochemical properties of solid-state reacted Li4Ti5O12Bigh energy milling and annealing. 2012 , 28, 178-184	12
2078	Oxygen selective membranes for li-air (o2) batteries. 2012 , 2, 216-27	37
2077	Electrolytes for high-energy lithium batteries. 2012 , 2, 91-109	71
2076	Solvothermal synthesis of LiCo1 \blacksquare Mn x PO4/C cathode materials for lithium-ion batteries. 2012 , 18, 507-512	13
2075	Graphene anchored with mesoporous NiO nanoplates as anode material for lithium-ion batteries. 2012 , 16, 1889-1892	52
2074	Electrochemical properties of TiO2 nanotube-Li4Ti5O12 composite anodes for lithium-ion batteries. 2012 , 12, 1199-1206	37
2073	Carbon coating for enhancing the functionalities of materials. 2012 , 50, 3247-3266	83
2072	Technology-behavioural modelling of energy innovation diffusion in the UK. 2012 , 95, 1-11	29
2071	Significant improvement of electrochemical properties of AlF3-coated LiNi0.5Co0.2Mn0.3O2 cathode materials. 2012 , 63, 363-368	187
2070	Nanostructured Li4Ti5O12 synthesized in a reverse micelle: A bridge between pseudocapacitor and lithium ion battery. 2012 , 68, 254-259	13

2069	Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. 2012 , 70, 62-68		24
2068	Investigation of S/C composite synthesized by solvent exchange method. 2012 , 70, 241-247		13
2067	Effects of chromium on the structural, surface chemistry and electrochemical of layered LiNi0.8NCo0.1Mn0.1CrxO2. 2012 , 77, 89-96		49
2066	A facile in situ sulfur deposition route to obtain carbon-wrapped sulfur composite cathodes for lithiumBulfur batteries. 2012 , 77, 272-278		156
2065	LiSICON Donic liquid electrolyte for lithium ion battery. <i>Journal of Power Sources</i> , 2012 , 198, 281-286	8.9	39
2064	Composite lithium battery anodes based on carbon@Co3O4 nanostructures: Synthesis and characterization. <i>Journal of Power Sources</i> , 2012 , 200, 53-58	8.9	95
2063	Three-dimensional coreShell Cu@Cu6Sn5 nanowires as the anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 199, 341-345	8.9	22
2062	Synthesis of hierarchical mesoporous nest-like Li4Ti5O12 for high-rate lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 200, 59-66	8.9	115
2061	Enhance electrochemical performance of lithium sulfur battery through a solution-based processing technique. <i>Journal of Power Sources</i> , 2012 , 202, 389-393	8.9	49
2060	Percolating networks of TiO2 nanorods and carbon for high power lithium insertion electrodes. Journal of Power Sources, 2012 , 206, 301-309	8.9	75
2059	LiFePO4He2PII composite cathode: An environmentally friendly promising electrode material for lithium-ion battery. <i>Journal of Power Sources</i> , 2012 , 206, 259-266	8.9	25
2058	A second nearest-neighbor embedded atom method interatomic potential for LiBi alloys. <i>Journal of Power Sources</i> , 2012 , 207, 150-159	8.9	151
2057	Thermal runaway caused fire and explosion of lithium ion battery. <i>Journal of Power Sources</i> , 2012 , 208, 210-224	8.9	1452
2056	Synthesis of mesoporous Sntu composite for lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 209, 204-208	8.9	35
2055	Effects of undercharge and internal loss on the rate dependence of battery charge storage efficiency. <i>Journal of Power Sources</i> , 2012 , 210, 286-291	8.9	72
2054	An aqueous electrolyte, sodium ion functional, large format energy storage device for stationary applications. <i>Journal of Power Sources</i> , 2012 , 213, 255-264	8.9	117
2053	Spatially heterogeneous carbon-fiber papers as surface dendrite-free current collectors for lithium deposition. 2012 , 7, 10-20		140
2052	The mechanism of ionic transport in PAN-based solid polymer electrolytes. 2012 , 208, 8-16		32

2051	Effect of polymerlanoparticle interactions on the glass transition dynamics and the conductivity mechanism in polyurethane titanium dioxide nanocomposites. 2012 , 53, 595-603	45
2050	Environmental impacts of a transition toward e-mobility: the present and future role of lithium carbonate production. 2012 , 23, 104-112	63
2049	Lithium ion battery production. 2012 , 46, 80-85	212
2048	Lithium diffusion in materials based on LiFePO4 doped with cobalt and magnesium. 2012 , 48, 513-519	12
2047	LiCo(x)Mn(1-x)PO4/C: a high performing nanocomposite cathode material for lithium rechargeable batteries. 2012 , 7, 163-8	23
2046	Hyperbranched organoboron polymer electrolytes derived from glycerol. 2012 , 68, 721-727	4
2045	Synthesis and applications of molybdenum (IV) oxide. 2012 , 47, 2057-2071	51
2044	One-step hydrothermal synthesis of Li2FeSiO4/C composites as lithium-ion battery cathode materials. 2012 , 47, 2328-2332	30
2043	Improvement of overcharge performance using Li4Ti5O12 as negative electrode for LiFePO4 power battery. 2012 , 16, 265-271	14
2042	Properties of LiNiO2 cathode and graphite anode in N-methyl-N-propylpyrrolidinium bis(trifluoromethanesulfonyl)imide. 2012 , 16, 673-679	3
2041	Determination of density and conductivity of the binary mixtures of the ionic liquid 1,2-dimethyl-3-hexylimidazolium bis(trifluoromethylsulfonyl)imide and dimethyl carbonate via mole fraction and temperature. 2013 , 19, 321-328	4
2040	Making Li-Air Batteries Rechargeable: Material Challenges. 2013 , 23, 987-1004	439
2039	Materials Science and Materials Chemistry for Large Scale Electrochemical Energy Storage: From Transportation to Electrical Grid. 2013 , 23, 929-946	516
2038	Combining In Situ Synchrotron X-Ray Diffraction and Absorption Techniques with Transmission Electron Microscopy to Study the Origin of Thermal Instability in Overcharged Cathode Materials for Lithium-Ion Batteries. 2013 , 23, 1047-1063	336
2037	Phosphorous Pentasulfide as a Novel Additive for High-Performance Lithium-Sulfur Batteries. 2013 , 23, 1064-1069	363
2036	Polymerised high internal phase ionic liquid-in-oil emulsions as potential separators for lithium ion batteries. 2013 , 1, 9612	50
2035	Cellulose-based Li-ion batteries: a review. 2013 , 20, 1523-1545	209
2034	Ellagic acida novel organic electrode material for high capacity lithium ion batteries. 2013 , 49, 7234-6	69

(2013-2013)

2033	the nature of synthetic basic ferric arsenate sulfate (Fe(AsO4)1M(SO4)x(OH)x) and basic ferric sulfate (FeOHSO4): their crystallographic, molecular and electronic structure with applications in the environment and energy. 2013 , 3, 16840		19
2032	Characterization of Li-rich xLi2MnO3[(1屆)Li[MnyNizCo1団]O2 as cathode active materials for Li-ion batteries. 2013 , 108, 32-38		23
2031	Electrochemical stability of lithium salicylato-borates as electrolyte additives in Li-ion batteries. Journal of Power Sources, 2013 , 239, 659-669	8.9	17
2030	Sandwich-Stacked SnO2/Cu Hybrid Nanosheets as Multichannel Anodes for Lithium Ion Batteries. 2013 , 7, 6948-54		92
2029	Atomic layer deposited Li4Ti5O12 on nitrogen-doped carbon nanotubes. 2013 , 3, 7285		47
2028	Morphology-control synthesis and electrochemical performance of titanate and anatase TiO2. 2013 , 578, 345-348		5
2027	Study of local disorder in LiMn(Cr,Ni)O2 compounds by extended X-ray absorption fine structure measurements. <i>Journal of Power Sources</i> , 2013 , 242, 202-207	8.9	1
2026	The role of SnO2 surface coating on the electrochemical performance of LiFePO4 cathode materials. 2013 , 108, 532-539		27
2025	Co3O4 nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. 2013 , 1, 14427		128
2024	Surface nitridation induced high electrochemical performance of Li4Ti5O12 using urea as a nitrogen source. 2013 , 19, 1843-1848		17
2023	Fast charging technique for high power lithium iron phosphate batteries: A cycle life analysis. Journal of Power Sources, 2013 , 239, 9-15	8.9	126
2022	Model Ge microstructures as anodes for Li-ion batteries. 2013 , 17, 3015-3020		7
2021	Combustion-synthesized sodium manganese (cobalt) oxides as cathodes for sodium ion batteries. 2013 , 17, 1923-1929		34
2020	Thin film nonstoichiometric chromium oxide-based cathode material for rechargeable and primary lithium batteries. 2013 , 17, 2213-2221		5
2019	Magnesium ion transport in poly(ethylene oxide)-based polymer electrolyte containing plastic-crystalline succinonitrile. 2013 , 17, 2283-2291		29
2018	Nanoscale microfibrillated cellulose reinforced truly-solid polymer electrolytes for flexible, safe and sustainable lithium-based batteries. 2013 , 20, 2439-2449		23
2017	Optimal Bidding Strategy for Electric Vehicle Aggregators in Electricity Markets. 2013 , 28, 4031-4041		250
2016	Facile fabrication of Si mesoporous nanowires for high-capacity and long-life lithium storage. 2013 , 5, 10623-8		25

2015	Cellulose/graphite/carbon fibres composite electrodes for Li-ion batteries. 2013, 87, 232-239		20
2014	Primary frequency regulation with Li-ion battery energy storage system: A case study for Denmark. 2013 ,		18
2013	Self-assembled V2O5 nanosheets/reduced graphene oxide hierarchical nanocomposite as a high-performance cathode material for lithium ion batteries. 2013 , 1, 10814		104
2012	X-ray diffraction study of LiFePO4 synthesized by hydrothermal method. 2013 , 3, 14652		16
2011	Comparison of commercial battery cells in relation to material properties. 2013, 87, 473-488		54
2 010	Beneficial influence of succinic anhydride as electrolyte additive on the self-discharge of 5 V LiNio.4Mn1.6O4 cathodes. <i>Journal of Power Sources</i> , 2013 , 236, 39-46	8.9	79
2009	Mixtures of ionic liquid [Alkylcarbonates as electrolytes for safe lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 227, 8-14	8.9	151
2008	A Review on Li-S Batteries as a High Efficiency Rechargeable Lithium Battery. 2013 , 160, A1256-A1263		216
2007	Modeling of Ionic Conductivity Enhancement of LiClO4-PVA-C System by TiO2 Addition Using Complex Numerical Model of PDE. 2013 , 22, 3639-3646		1
2006	2-(triphenylphosphoranylidene) succinic anhydride as a new electrolyte additive to improve high temperature cycle performance of LiMn2O4/graphite Li-ion batteries. 2013 , 102, 97-103		18
2005	Comparative Impedance Study of Cd(0001) Electrode in EMImBF4and KI Aqueous Solution at Different Temperatures. 2013 , 160, H368-H375		15
2004	Ag nanoparticle-modified MnO2 nanorods catalyst for use as an air electrode in zinclir battery. 2013 , 114, 598-604		113
2003	Energy Storage: Rechargeable Lithium Batteries. 2013 , 109-129		
2002	Rate-Dependent Morphology of Li2O2 Growth in Li-O2 Batteries. 2013 , 4, 4217-22		128
2001	Influence of the carbonaceous conductive network on the electrochemical performance of ZnFe2O4 nanoparticles. <i>Journal of Power Sources</i> , 2013 , 236, 87-94	8.9	81
2 000	Higher-capacity lithium ion battery chemistries for improved residential energy storage with micro-cogeneration. 2013 , 111, 853-861		46
1999	Electric and thermal characterization of advanced hybrid Li-Ion capacitor rechargeable energy storage system. 2013 ,		10
1998	Mechanisms Underlying Ionic Mobilities in Nanocomposite Polymer Electrolytes 2013 , 2, 1001-1005		32

1997	with nitroxide polymers. 2013 , 15, 20921-8	33	
1996	A Phenomenological Degradation Model for Cyclic Aging of Lithium Ion Cell Materials. 2013 , 160, A125-A137	42	
1995	Electrospun three-dimensional mesoporous silicon nanofibers as an anode material for high-performance lithium secondary batteries. 2013 , 5, 12005-10	74	
1994	Multiwalled carbon nanotubes 205 integrated composite with nanosized architecture as a cathode material for high performance lithium ion batteries. 2013 , 1, 15459	63	
1993	Neutron powder diffraction and molecular dynamics study of superionic SrBr2. 2013 , 25, 454205	4	
1992	A nanoparticle Mg-doped Li4Ti5O12 for high rate lithium-ion batteries. 2013 , 114, 198-204	83	
1991	In situ growth of CuO nanoparticles on graphene matrix as anode material for lithium-ion batteries. 2013 , 105, 242-245	26	
1990	Poly(ethylene oxide)-co-poly(propylene oxide)-based gel electrolyte with high ionic conductivity and mechanical integrity for lithium-ion batteries. 2013 , 5, 8477-85	118	
1989	Thermal transformations of urea in ethylene glycol: II. Reaction of isocyanic acid with ethylene glycol associates. 2013 , 49, 1723-1727	6	
1988	Covalent bond glued sulfur nanosheet-based cathode integration for long-cycle-life Li-S batteries. 2013 , 13, 6244-50	87	
1987	Tailoring porosity in carbon nanospheres for lithium-sulfur battery cathodes. 2013 , 7, 10920-30	391	
1986	Key electronic states in lithium battery materials probed by soft X-ray spectroscopy. 2013 , 190, 64-74	79	
1985	Three-dimensional lithium-ion batteries with interdigitated electrodes. 2013,	4	
1984	Transition-Metal-Doped Zinc Oxide Nanoparticles as a New Lithium-Ion Anode Material. 2013 , 25, 4977-4985	122	
1983	Comparison of LiVPO4F to Li4Ti5O12 as anode materials for lithium-ion batteries. 2013 , 5, 8615-27	53	
1982	Electrospun lithium metal oxide cathode materials for lithium-ion batteries. 2013, 3, 25576	58	
1981	. 2013,	3	
1980	A review: Feasibility of hydrogen generation from the reaction between aluminum and water for fuel cell applications. <i>Journal of Power Sources</i> , 2013 , 229, 133-140	108	

1979	High Energy Density Metal-Air Batteries: A Review. 2013 , 160, A1759-A1771		453
1978	Preparation, microstructure, and electrochemical properties of Sn-Co-C anode materials using composited carbon sources. 2013 , 17, 2521-2529		8
1977	Interface chemistry guided long-cycle-life Li-S battery. 2013 , 13, 4206-11		115
1976	Study of lithiation mechanisms in silicon electrodes by Auger Electron Spectroscopy. 2013 , 1, 4956		53
1975	Model-based investigation of electric vehicle battery aging by means of vehicle-to-grid scenario simulations. <i>Journal of Power Sources</i> , 2013 , 239, 604-610	8.9	87
1974	Recent progress and remaining challenges in sulfur-based lithium secondary batteriesa review. 2013 , 49, 10545-62		430
1973	Systematic First-Principles Investigation of Mixed Transition Metal Olivine Phosphates LiM1-yM?yPO4 (M/M? = Mn, Fe, and Co) as Cathode Materials. 2013 , 117, 17919-17926		29
1972	Effect of sintering on Electrochemical Impedance of Li4Ti5O12/sodalime composites anode for lithium ceramic battery application. 2013 ,		
1971	A Comparative Computational Study of Structures, Diffusion, and Dopant Interactions between Li and Na Insertion into Si. 2013 , 6, 027301		71
1970	TiO2 nanocrystal embedded ordered mesoporous carbons as anode materials for lithium-ion batteries with highly reversible capacity and rate performance. 2013 , 15, 6800		18
1969	Structural and Electrochemical Characterization of Vanadium-Doped LiFePO4Cathodes for Lithium-Ion Batteries. 2013 , 160, A940-A949		19
1968	Extreme-rate capable and highly stable SiCO-TiO2 hybrids for Li ion battery anodes. 2013 , 49, 9657-9		8
1967	Field tests experience from 1.6MW/400kWh Li-ion battery energy storage system providing primary frequency regulation service. 2013 ,		15
1966	Polyacrylonitrile block copolymers for the preparation of a thin carbon coating around TiO2 nanorods for advanced lithium-ion batteries. 2013 , 34, 1693-700		28
1965	Optimization of the passive thermal control system of a lithium-ion battery with heat pipes embedded in an aluminum plate. 2013 ,		2
1964	8. Batterietechnik Lithium-Ionen-Batterien. 2013 , 74, 66-70		3
1963	Mesoscopic magnetic iron oxide spheres for high performance Li-ion battery anode: a new pulsed laser induced reactive micro-bubble synthesis process. 2013 , 1, 13932		16
1962	Alternative materials for sodium ionBulphur batteries. 2013 , 1, 5256		127

1961	Solid polymer electrolytes which contain tricoordinate boron for enhanced conductivity and transference numbers. 2013 , 1, 1108-1116		76
1960	Three-Dimensional Thermal Model of a Lithium Ion Battery for Hybrid Mobile Working Machines: Determination of the Model Parameters in a Pouch Cell. 2013 , 28, 335-343		45
1959	Lithium intercalation behaviors in Ge and Sn crystalline surfaces. 2013 , 15, 13586-92		13
1958	Spherical concentration-gradient LiMn1.87Ni0.13O4 spinel as a high performance cathode for lithium ion batteries. 2013 , 1, 4010		53
1957	An advanced sodium-ion rechargeable battery based on a tin-carbon anode and a layered oxide framework cathode. 2013 , 15, 3827-33		81
1956	A rationally designed dual role anode material for lithium-ion and sodium-ion batteries: case study of eco-friendly Fe3O4. 2013 , 15, 2945-53		143
1955	Effects of Styrene-Butadiene Rubber/Carboxymethylcellulose (SBR/CMC) and Polyvinylidene Difluoride (PVDF) Binders on Low Temperature Lithium Ion Batteries. 2013 , 160, A1811-A1818		30
1954	Computationally efficient and accurate modeling of Li-ion battery. 2013,		3
1953	High power LiFePO4 cell evaluation: Fast charge, depth of discharge and fast discharge dependency. 2013 ,		O
1952	Electrochemical performance and lithium-ion intercalation kinetics of submicron-sized Li4Ti5O12 anode material. 2013 , 547, 107-112		54
1951	Dual functions of N,N-dimethylethanolamnium-based ionic liquids for the Knoevenagel reactions at room temperature. 2013 , 200, 17-23		33
1950	Characterization of N-butyl-N-methyl-pyrrolidinium bis(trifluoromethanesulfonyl)imide-based polymer electrolytes for high safety lithium batteries. <i>Journal of Power Sources</i> , 2013 , 224, 93-98	8.9	62
1949	Polyethylene-supported polyvinylidene fluoridelellulose acetate butyrate blended polymer electrolyte for lithium ion battery. <i>Journal of Power Sources</i> , 2013 , 226, 101-106	8.9	57
1948	Imprintable, bendable, and shape-conformable polymer electrolytes for versatile-shaped lithium-ion batteries. 2013 , 25, 1395-400		165
1947	Electrical properties of ionic liquid and double perovskite-type metal oxide composites [A new method to tailor grain-boundary impedance of ceramic electrolytes. 2013 , 232, 106-111		3
1946	Germaniumgraphene composite anode for high-energy lithium batteries with long cycle life. 2013 , 1, 1821-1826		130
1945	The development and challenges of rechargeable non-aqueous lithium ir batteries. 2013, 4, 27-46		24
1944	Novel multiphase electrode/electrolyte composites for next generation of flexible polymeric Li-ion cells. 2013 , 43, 137-145		13

1943	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. 2013 , 48, 367-376		42
1942	A brief review on hydrometallurgical technologies for recycling spent lithium-ion batteries. 2013 , 88, 1191-1199		265
1941	A structured monodisperse PEG for the effective suppression of protein aggregation. 2013 , 52, 2430-4		58
1940	Structural analysis of highly-durable SiOC composite anode prepared by electrodeposition for lithium secondary batteries. 2013 , 110, 403-410		36
1939	Modeling of lithium segregation induced delamination of a-Si thin film anode in Li-ion batteries. 2013 , 79, 877-887		29
1938	The isothermal section of the phase diagram of Lillalle ternary system at 400 °C. 2013 , 43, 29-37		9
1937	Li-doped mixtures of alkoxy-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)-imide and organic carbonates as safe liquid electrolytes for lithium batteries. <i>Journal of Power Sources</i> , 2013 , 237, 204-209	8.9	38
1936	Li4Ti5O12/graphene nanostructure for lithium storage with high-rate performance. 2013 , 109, 389-394		33
1935	A structural, spectroscopic and electrochemical study of a lithium ion conducting Li10GeP2S12 solid electrolyte. <i>Journal of Power Sources</i> , 2013 , 229, 117-122	8.9	67
1934	Preparation and electrochemical lithium storage features of TiO2 hollow spheres. <i>Journal of Power Sources</i> , 2013 , 238, 197-202	8.9	34
1933	Electrochemical and structural investigation of NaCrO2 as a positive electrode for sodium secondary battery using inorganic ionic liquid NaFSARFSA. <i>Journal of Power Sources</i> , 2013 , 237, 52-57	8.9	84
1932	Cyclic Capacity Fade Plots for aging studies of Li-ion cells. <i>Journal of Power Sources</i> , 2013 , 230, 143-147	8.9	13
1931	Freestanding metal nanowires and macroporous materials from ionic liquids for battery applications. 2013 , 38, 567-571		10
1930	Are Lithium Ion Cells Intrinsically Safe?. 2013 , 49, 2451-2460		26
1929	Electrodeposition of silicon from three different ionic liquids: possible influence of the anion on the deposition process. 2013 , 17, 2823-2832		41
1928	Revisiting TEGDME/DIOX Binary Electrolytes for Lithium/Sulfur Batteries: Importance of Solvation Ability and Additives. 2013 , 160, A430-A436		70
1927	Reversible contrast in focus series of annular bright field images of a crystalline LiMnDIhanowire. 2013 , 125, 43-8		26
1926	Rod-like hierarchical nano/micro Li1.2Ni0.2Mn0.6O2 as high performance cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 240, 644-652	8.9	76

Comparative computational study of the diffusion of Li, Na, and Mg in silicon including the effect of vibrations. 2013 , 253, 157-163	43
Insight into lithium ulfur batteries: Elementary kinetic modeling and impedance simulation. Sournal of Power Sources, 2013 , 244, 183-188	71
Discharge characteristics of multicell lithium-ion battery with nonuniform cells. <i>Journal of Power Sources</i> , 2013 , 241, 736-743	44
Graphene-coated mesoporous carbon/sulfur cathode with enhanced cycling stability. 2013, 113, 256-262	72
Fast screening of solid electrolytes: a high throughput solid state NMR probe. 2013 , 49-50, 23-5	5
Preparation of solid-state composite electrolytes based on organic/inorganic hybrid star-shaped polymer and PEG-functionalized POSS for all-solid-state lithium battery applications. 2013 , 54, 5812-5820	79
Electrochemical performance of trimethylolpropane trimethylacrylate-based gel polymer electrolyte prepared by in situ thermal polymerization. 2013 , 89, 334-338	41
Forklift with a lithium-titanate battery during a lifting/lowering cycle: Analysis of the recuperation capability. 2013 , 35, 275-284	14
Electronic structure and magnetic properties of LiMn1.5M0.5O4 (M=Al, Mg, Ni, Fe) and LiMn2O4/TiO2 nanocrystalline electrode materials. 2013 , 206, 257-264	9
Lithium intercalation and deintercalation into lithiumIron phosphates doped with cobalt. 2013 , 23, 251-252	11
Ru-doped Li4Ti5O12 anode materials for high rate lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 228, 244-249	52
Preparation of a new nanoconductive ROMP copolymer and its application as solid polymer electrolyte. 2013 , 180, 59-63	3
Alkoxy substituted imidazolium-based ionic liquids as electrolytes for lithium batteries. <i>Journal of Power Sources</i> , 2013 , 235, 142-147	54
New electrode materials for lithium-ion batteries (Review). 2013 , 49, 1-25	44
A Li-ion battery using LiMn2O4 cathode and MnOx/C anode. <i>Journal of Power Sources</i> , 2013 , 244, 214-228.9	42
Laser-induced self-organizing surface structures on cathode materials for lithium-ion batteries. 2013 ,	
One-pot synthesis of a mesoporous NiCo2O4 nanoplatelet and graphene hybrid and its oxygen reduction and evolution activities as an efficient bi-functional electrocatalyst. 2013 , 1, 4754	431
Greener Method to a Manganese Oxygen Reduction Reaction Electrocatalyst: Anion Electrolyte Effects on Electrocatalytic Performance. 2013 , 1, 359-363	3
	Insight into lithiumBulfur batteries: Elementary kinetic modeling and impedance simulation. Journal of Power Sources, 2013, 244, 183-188 Discharge characteristics of multicell lithium-ion battery with nonuniform cells. Journal of Power Sources, 2013, 241, 736-743 Graphene-coated mesoporous carbon/sulfur cathode with enhanced cycling stability. 2013, 113, 256-262 Fast screening of solid electrolytes: a high throughput solid state NMR probe. 2013, 49-50, 23-5 Preparation of solid-state composite electrolytes based on organic/inorganic hybrid star-shaped polymer and PEG-functionalized POSS for all-solid-state lithium battery applications. 2013, 54, 5812-5820 Electrochemical performance of trimethylolpropane trimethylacrylate-based gel polymer electrolyte prepared by in situ thermal polymerization. 2013, 89, 334-338 Forklift with a lithium-titanate battery during a lifting/lowering cycle: Analysis of the recuperation capability. 2013, 35, 275-284 Electronic structure and magnetic properties of LiMn1.5M0.504 (M=Al, Mg, Ni, Fe) and LiMn204/TiO2 nanocrystalline electrode materials. 2013, 206, 257-264 Lithium intercalation and deintercalation into lithiumIton phosphates doped with cobalt. 2013, 23, 251-252 Ru-doped Li4TiSO12 anode materials for high rate lithium-ion batteries. Journal of Power Sources, 2013, 238, 244-249 Preparation of a new nanoconductive ROMP copolymer and its application as solid polymer electrolyte. 2013, 180, 59-63 Alkoxy substituted imidazolium-based ionic liquids as electrolytes for lithium batteries. Journal of Power Sources, 2013, 235, 142-147 New electrode materials for lithium-ion batteries (Review). 2013, 49, 1-25 A Lition battery using LiMn204 cathode and Mn0x/C anode. Journal of Power Sources, 2013, 244, 214-228.9 Laser-induced self-organizing surface structures on cathode materials for lithium-ion batteries. 2013, 14754 Greener Method to a Manganese Oxygen Reduction Reaction Electrocatalyst. Anion Electrolyte

1907	Cyclic plasticity and shakedown in high-capacity electrodes of lithium-ion batteries. 2013 , 50, 1120-1129	66
1906	1,3,5-Trihydroxybenzene as a film-forming additive for high-voltage positive electrode. 2013 , 27, 26-28	34
1905	Thin copper phosphide films as conversion anode for lithium-ion battery applications. 2013 , 92, 47-54	34
1904	High-rate and elevated temperature performance of electrospun V2O5 nanofibers carbon-coated by plasma enhanced chemical vapour deposition. 2013 , 2, 57-64	46
1903	Mathematical model of the dendritic growth during lithium electrodeposition. <i>Journal of Power Sources</i> , 2013 , 232, 23-28	114
1902	Chemical-state imaging of Li using scanning Auger electron microscopy. 2013 , 186, 39-43	19
1901	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. 2013 , 4, 1543	978
1900	Lithium/sulfur batteries with high specific energy: old challenges and new opportunities. 2013 , 5, 2186-204	429
1899	Nanomaterials for energy conversion and storage. 2013 , 42, 3127-71	1188
1898	A facile route to synthesize multiporous MnCo2O4 and CoMn2O4 spinel quasi-hollow spheres with improved lithium storage properties. 2013 , 5, 2045-54	396
1897	Synthesis and characterization of Na0.44MnO2 from solution precursors. 2013 , 1, 2757	56
1896	Mesoporous TiO(2)-Sn@C core-shell microspheres for Li-ion batteries. 2013 , 49, 2792-4	67
1895	Li+ conducting polymer electrolyte based on ionic liquid for lithium and lithium-ion batteries. 2013 , 92, 404-411	26
1894	Ordered mesoporous MgMoOlthin films for lithium-ion battery applications. 2013, 9, 2541-4	24
1893	Graphene-based electrodes for electrochemical energy storage. 2013 , 6, 1388	631
1892	Electrochemical behavior of N and Ar implanted highly oriented pyrolytic graphite substrates and activity toward oxygen reduction reaction. 2013 , 88, 477-487	47
1891	Graphene in lithium ion battery cathode materials: A review. <i>Journal of Power Sources</i> , 2013 , 240, 66-79 8.9	436
1890	Interface chemistry engineering for stable cycling of reduced GO/SnO2 nanocomposites for lithium ion battery. 2013 , 13, 1711-6	256

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1889	Controlled electrochemical deposition and transformation of hetero-nanoarchitectured electrodes for energy storage. 2013 , 15, 7976-93		36
1888	Two-phase electrochemical lithiation in amorphous silicon. 2013 , 13, 709-15		336
1887	Influence of Al3+ ions on the morphology and structure of layered LiMn1⊠AlxO2 cathode materials for the lithium ion battery. 2013 , 569, 67-75		8
1886	In situ transmission electron microscopy observations of electrochemical oxidation of Li2O2. 2013 , 13, 2209-14		198
1885	Fundamental problems of lithium-ion rechargeable batteries. 2013 , 49, 145-150		11
1884	Metal oxides and oxysalts as anode materials for Li ion batteries. 2013 , 113, 5364-457		2412
1883	An overviewEunctional nanomaterials for lithium rechargeable batteries, supercapacitors, hydrogen storage, and fuel cells. 2013 , 48, 4968-4973		15
1882	Composite poly(ethylene oxide) electrolytes plasticized by N-alkyl-N-butylpyrrolidinium bis(trifluoromethanesulfonyl)imide for lithium batteries. 2013 , 6, 1037-43		56
1881	Conical surface structures on model thin-film electrodes and tape-cast electrode materials for lithium-ion batteries. 2013 , 112, 77-85		24
1880	Protic ionic liquids as electrolytes for lithium-ion batteries. 2013 , 31, 39-41		125
1879	N-n-Butyl-N-methylpyrrolidinium hexafluorophosphate-added electrolyte solutions and membranes for lithium-secondary batteries. <i>Journal of Power Sources</i> , 2013 , 233, 104-109	8.9	13
1878	Composite organic radicallihorganic hybrid cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 233, 69-73	8.9	10
1877	Developing a light weight lithium ion battery han effective material and electrode design for high performance conversion anodes. 2013 , 3, 6386		19
1876	Carbon Nanostructures in Lithium Ion Batteries: Past, Present, and Future. 2013 , 38, 128-166		55
1875	One-step synthesis of CoMoO4/graphene composites with enhanced electrochemical properties for supercapacitors. 2013 , 99, 253-261		190
1874	Ruthenium-based electrocatalysts supported on reduced graphene oxide for lithium-air batteries. 2013 , 7, 3532-9		348
1873	Roles of surface chemistry on safety and electrochemistry in lithium ion batteries. 2013 , 46, 1161-70		208
1872	Challenges and prospects of lithium-sulfur batteries. 2013 , 46, 1125-34		1652

1871	Engineering nano-composite Li4Ti5O12 anodes via scanning electron-probe fabrication. 2013 , 2, 343-350	34
1870	The influence of the electrochemical and thermal stability of mixtures of ionic liquid and organic carbonate on the performance of high power lithium-ion batteries. 2013 , 90, 641-648	48
1869	Evaluation of the main processing parameters influencing the performance of poly(vinylidene fluorideErifluoroethylene) lithium-ion battery separators. 2013 , 17, 861-870	29
1868	Quantum-chemical study on thermal transformations of urea in ethylene glycol. 2013 , 49, 28-33	7
1867	Lithium electrochemistry and cycling behaviour of ionic liquids using cyano based anions. 2013 , 6, 979	130
1866	Use of non-conventional electrolyte salt and additives in high-voltage graphite/LiNi0.4Mn1.6O4 batteries. <i>Journal of Power Sources</i> , 2013 , 238, 17-20	33
1865	Electronic structure and magnetism in the layered LiFeO2: DFT+U calculations. 2013, 343, 92-98	3
1864	Facile fabrication of graphene/Cu6Sn5 nanocomposite as the high performance anode material for lithium ion batteries. 2013 , 105, 629-634	36
1863	Interface characterization of MgF2-coated LiCoO2 thin films. 2013 , 230, 86-91	50
1862	Effect of fiber orientation in gelled poly(vinylidene fluoride) electrospun membranes for Li-ion battery applications. 2013 , 48, 6833-6840	17
1861	Solid-state synthesis of Li4Ti5O12 for high power lithium ion battery applications. 2013 , 570, 144-149	44
1860	High-rate Li4Ti5O12/C composites as anode for lithium-ion batteries. 2013 , 19, 385-389	17
1859	Improved performances of nanosilicon electrodes using the salt LiFSI: a photoelectron spectroscopy study. 2013 , 135, 9829-42	233
1858	Structural analysis of highly-durable SiOC composite anode prepared by electrodeposition for lithium secondary batteries. 2013 , 107, 1-8	2
1857	Acetylene black incorporated three-dimensional porous SnS2 nanoflowers with high performance for lithium storage. 2013 , 3, 3374	68
1856	Nanoengineering Titania for High Rate Lithium Storage: A Review. 2013 , 29, 97-122	89
1855	Nanoporous carbons from hydrothermally treated biomass as anode materials for lithium ion batteries. 2013 , 174, 25-33	64
1854	New structural lithium battery electrolytes using thiolane chemistry. 2013 , 236, 22-29	59

(2013-2013)

1853	electrochemical performance as negative electrode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 244, 515-520	9	11
1852	A review on lithium-ion battery ageing mechanisms and estimations for automotive applications. Journal of Power Sources, 2013 , 241, 680-689	9	905
1851	Capacity fading mechanism of LiFePO4-based lithium secondary batteries for stationary energy storage. <i>Journal of Power Sources</i> , 2013 , 229, 190-197	9	96
1850	Temperature dependence of electrochemical properties of cross-linked poly(ethylene oxide)Ithium bis(trifluoromethanesulfonyl)imideIn-butyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide solid polymer electrolytes for lithium batteries. 2013 , 87, 779-787		49
1849	Cycling profile of MgAl2O4-incorporated composite electrolytes composed of PEO and LiPF6 for lithium polymer batteries. 2013 , 90, 179-185		82
1848	Experimental investigation of the lithium-ion battery impedance characteristic at various conditions and aging states and its influence on the application. 2013 , 102, 885-897		546
1847	Hydrothermal synthesis of Li4Ti5O12/C nanostructured composites: Morphology and electrochemical performance. 2013 , 48, 218-223		23
1846	Controlling Size, Crystallinity, and Electrochemical Performance of Li4Ti5O12 Nanocrystals. 2013 , 25, 5023-5030		52
1845	Ionic liquids as safe electrolyte components for Li-metal and Li-ion batteries. 2013, 38, 548-553		83
1844	Ab Initio Calculations for Decomposition Mechanism of CH3O(CH2CH2O)NCH3 (N = 14) by the Attack of O2 $\frac{14}{14}$ Attack of O		10
1843	Flexible cellulose/LiFePO4 paper-cathodes: toward eco-friendly all-paper Li-ion batteries. 2013, 20, 571-58	32	63
1842	Synthesis and enhanced lithium storage properties of electrospun V2O5 nanofibers in full-cell assembly with a spinel Li4Ti5O12 anode. 2013 , 5, 3475-80		59
1841	Synthesis of Li[Ni0.2Li0.2Mn0.6]O2 nano-particles and their surface modification using a polydopamine layer. <i>Journal of Power Sources</i> , 2013 , 244, 222-233	9	31
1840	Hydrothermal synthesis of hierarchical LiFePO4 microspheres for lithium ion battery. 2013 , 553, 69-74		32
1839	Electrochemical Properties of P-Doped Silicon Thin Film Anodes of Lithium Ion Batteries. 2013, 737, 80-84		8
1838	Local Structure, Electronic Behavior, and Electrocatalytic Reactivity of CO-Reduced PlatinumIron Oxide Nanoparticles. 2013 , 117, 26324-26333		33
1837	CNT@Fe3O4@C coaxial nanocables: one-pot, additive-free synthesis and remarkable lithium storage behavior. 2013 , 19, 9866-74		103
1836	Electrospun Poly(vinylidene fluoride)-Lithium Bistrifluoromethanesulfonamide Separators for Applications in Ionic Liquid Batteries. 2013 , 66, 252		6

1835	In Situ TEM Observation of Local Phase Transformation in a Rechargeable LiMn2O4 Nanowire Battery. 2013 , 117, 24236-24241	58
1834	Rapid characterization of lithium ion battery electrolytes and thermal aging products by low-temperature plasma ambient ionization high-resolution mass spectrometry. 2013 , 85, 3433-8	51
1833	Rapid charging strategy in the constant voltage mode for a high power Li-Ion battery. 2013,	13
1832	Comparison, Selection, and Parameterization of Electrical Battery Models for Automotive Applications. 2013 , 28, 1429-1437	142
1831	Investigation of different binding agents for nanocrystalline anatase TiO2 anodes and its application in a novel, green lithium-ion battery. <i>Journal of Power Sources</i> , 2013 , 221, 419-426	77
1830	Local Li coordination and ionic transport in methacrylate-based gel polymer electrolytes. 2013 , 14, 3113-20	3
1829	Two-phase versus two-stage versus multi-phase lithiation kinetics in silicon. 2013 , 103, 143901	10
1828	An Alternative Synthesis Route of LiFePO4-Carbon Composites for Li-Ion Cathodes. 2013 , 2013, 1-6	2
1827	Design of Control System for Lithium-Ion Battery Automatic Casing Machine Based on PLC. 2013 , 846-847, 121-125	
1826	Design and Evaluation of a Three Dimensionally Ordered Macroporous Structure within a Highly Patterned Cylindrical Sn-Ni Electrode for Advanced Lithium Ion Batteries. 2013 , 2013, 1-6	4
1825	Activated Carbon Nanofibers as High Capacity Anodes for Lithium-Ion Batteries. 2013, 2, M3074-M3077	19
1824	OEM strategies for vertical integration in the battery value chain. 2013 , 13, 75	9
1823	Synthesis of LiFePO4/C Composite Cathode Materials by Solid State Method Using Mixed Iron Sources. 2013 , 734-737, 2541-2544	1
1822	Studies of Lithium Diffusivity of Silicon-Based Film Electrodes for Rechargeable Lithium Batteries. 2013 , 4, 108-112	3
1821	The Study of Theoretic Coated Carbon Amount and Excess Lithium in LiFePO4/C Synthesis by Means of Carbon Thermal Reduction Route. 2013 , 724-725, 1083-1086	
1820	Adsorption of the ionic liquid [BMP][TFSA] on Au(111) and Ag(111): substrate effects on the structure formation investigated by STM. 2013 , 4, 903-918	38
1819	Flexible fiber batteries for applications in smart textiles. 2013 , 1489, 7	2
1818	Morphology control of anatase TiO2 spindly octahedra with exposed high-index {401} facets and application in lithium-ion batteries. 2013 , 8, 1399-403	26

1817	Protic ionic liquids: Fuel cell applications. 2013 , 38, 560-566	137
1816	Redox reactions with empirical potentials: atomistic battery discharge simulations. 2013 , 139, 064106	19
1815	Evaluation of LiFePO4 batteries for Electric Vehicle applications. 2013,	5
1814	. 2013,	4
1813	The lifetime of the LiFePO4/C battery energy storage system when used for smoothing of the wind power plant variations. 2013 ,	2
1812	An advanced selenium-carbon cathode for rechargeable lithium-selenium batteries. 2013 , 52, 8363-7	330
1811	An Electrolyte Soaking And Thermal Shock Test Of Microtemperature And Voltage Sensors. 2013 , 10, 337-347	1
1810	Synthesis and Electrochemistry of Nanocrystalline M-TiO2(M = Mn, Fe, Co, Ni, Cu) Anatase. 2013 , 160, A511-A515	10
1809	Preparation and ionic conductive properties of all-solid polymer electrolytes based on multiarm star block polymers. 2013 , 129, 1131-1142	19
1808	Long-term cycle stability at a high current for nanocrystalline LiFePO 4 coated with a conductive polymer. 2013 , 4, 015011	1
1807	Evaluation of elastic modulus of Li2SP2S5 glassy solid electrolyte by ultrasonic sound velocity measurement and compression test. 2013 , 121, 946-949	100
1806	A Structured Monodisperse PEG for the Effective Suppression of Protein Aggregation. 2013 , 125, 2490-2494	12
1805	An Advanced Selenium Carbon Cathode for Rechargeable Lithium Belenium Batteries. 2013, 125, 8521-8525	47
1804	Synthesis and Fundamental Properties of Carbon Dioxide/Alkylene Oxide Copolymers as Ion-Conductive Polymers. 2013 , 70, 23-28	8
1803	Statistical Method Tools to Analyze Ageing Effects on Li-Ion Battery Performances. 2013,	3
1802	Simplified Extended Kalman Filter Observer for SOC Estimation of Commercial Power-Oriented LFP Lithium Battery Cells. 2013 ,	20
1801	Synthesis of Microspherical LiFePOECarbon Composites for Lithium-Ion Batteries. 2013, 3, 443-452	19
1800	High power LiFePO4 cell evaluation: Fast charge, Depth of Discharge and Fast discharge dependency. 2013 , 6, 653-662	2

1799 Safer and Flexible Lithium Ion Batteries: Dream or Reality?. 2013 , 3, 36-44	3
$_{1798}$ AFM as an analysis tool for high-capacity sulfur cathodes for Li-S batteries. 2013 , 4, 611-24	19
Dynamic Modelling of Advanced Battery Energy Storage System for Grid-Tied AC Microgrid Applications. 2013 ,	3
1796 Running Costs Evaluation of the Fuel Cell Hybrid Powertrain Using Li4Ti5O12 Battery. 2013 ,	
1795 Effect of Calendering on Electrode Wettability in Lithium-Ion Batteries. 2014 , 2,	70
Investigation on Electric Air-Conditioning System Energy Consumption of an Electric Vehicle Powered by Li-ion Battery. 2014 , 03,	
Chemical and microstructural transformations in lithium iron phosphate battery electrodes following pulsed laser exposure. 2014 , 322, 85-94	10
1792 Performance improvement of Snto alloy film anodes for lithium-ion batteries. 2014 , 07, 1450050	6
1791 Lithium-Ion Cell Components and Their Effect on High-Power Battery Safety. 2014 , 437-460	6
Database development and evaluation for techno-economic assessments of electrochemical energy storage systems. 2014 ,	7
Symmetrical Impedance Study on Inactivation Induced Degradation of Lithium Electrodes for Batteries Beyond Lithium-Ion. 2014 , 161, A827-A830	47
Remote cutting of Li-ion battery electrodes with infrared and green ns-pulsed fibre lasers. 2014 , 75, 1557-1568	14
1787 A self-reliant avian bio-logger: energy storage considerations. 2014 , 23, 015004	4
Review of charge equalization schemes for Li-ion battery and super-capacitor energy storage systems. 2014 ,	15
An electrochemical cell for in operando studies of lithium/sodium batteries using a conventional x-ray powder diffractometer. 2014 , 85, 104103	20
$_{1784}$ A Polyamide Single-Ion Electrolyte Membrane for Application in Lithium-Ion Batteries. 2014 , 2, 69	98-704 26
Enhanced cyclic performance of MgF2-coated Li[Ni0.2Li0.2Mn0.6]O2 nanoparticle cathodes in full lithium ion cells. 2014 , 33, 264-271	10
1782 Ionic liquid electrolytes for Li-air batteries: lithium metal cycling. 2014 , 15, 8122-37	59

1781	Synthesis and Characterization of Silicon Nanoparticles Inserted into Graphene Sheets as High Performance Anode Material for Lithium Ion Batteries. 2014 , 2014, 1-6	9
1780	Optimization of Sulphur Content in LiMn2O4-ySy Spinels as Cathode Materials for Lithium-ion Batteries. 2014 , 98, 20-27	8
1779	A Combined State of Charge Estimation Method for Lithium-Ion Batteries Used in a Wide Ambient Temperature Range. 2014 , 7, 3004-3032	55
1778	Boric ester-type molten salt via dehydrocoupling reaction. 2014 , 15, 21080-9	1
1777	. 2014,	38
1776	Nonaqueous Electrolytes with Advances in Solvents. 2014 , 93-165	15
1775	Comparison of Different Powertrain Configurations for Electric City Bus. 2014,	4
1774	Dynamic Model of a Vanadium Redox Flow Battery for System Performance Control. 2014 , 136,	9
1773	Laser generated microstructures in tape cast electrodes for rapid electrolyte wetting: new technical approach for cost efficient battery manufacturing. 2014 ,	6
1772	Prognostics of lithium-ion batteries based on flexible support vector regression. 2014,	1
1771	Stable anode performance of an Sbbarbon nanocomposite in lithium-ion batteries and the effect of ball milling mode in the course of its preparation. 2014 , 2, 4282	75
1770	Reduction phases of thin iron-oxide nanowires upon thermal treatment and Li exposure. 2014 , 115, 163701	
1769	Low-cost industrial by-products as precursors for (hbox {LiFePO}_{4}) synthesis. 2014 , 16, 1	1
1768	High-performance lithium/sulfur cells with a bi-functionally immobilized sulfur cathode. 2014 , 9, 408-416	42
1767	Lithium solvation in dimethyl sulfoxide-acetonitrile mixtures. 2014 , 141, 214509	19
1766	Composition as a Means To Control Morphology and Properties of Epoxy Based Dual-Phase Structural Electrolytes. 2014 , 118, 28377-28387	41
1765	The Effect of Carbon Additives on the Microstructure and Conductivity of Alkaline Battery Cathodes. 2014 , 161, A1691-A1697	11
1764	Macroporous Fe3O4/carbon composite microspheres with a short Li+ diffusion pathway for the fast charge/discharge of lithium ion batteries. 2014 , 20, 11078-83	34

1763	A lithium ion battery exploiting a composite Fe2O3 anode and a high voltage Li1.35Ni0.48Fe0.1Mn1.72O4 cathode. 2014 ,		5
1762	Ionic Liquid Based Electrolytes: Correlating Li Diffusion Coefficients and Battery Performance. 2014 , 161, A2036-A2041		18
1761	On-Line Electrochemical Mass Spectrometry Investigations on the Gassing Behavior of Li4Ti5O12Electrodes and Its Origins. 2014 , 161, A497-A505		110
1760	Asymmetric Coulomb fluids at randomly charged dielectric interfaces: anti-fragility, overcharging and charge inversion. 2014 , 141, 174704		25
1759	Computational studies of solid electrolyte interphase formation. 2014 , 57-87		6
1758	Electrochemical performance of polydopamine-assisted Li[Ni1/3Co1/3Mn1/3]O2/Ketjenblack cathodes. 2014 , 268, 210-215		10
1757	Comparison of carbon onions and carbon blacks as conductive additives for carbon supercapacitors in organic electrolytes. <i>Journal of Power Sources</i> , 2014 , 272, 1122-1133	8.9	75
1756	In situ X-ray Diffraction Studies of Cation and Anion Inter[calation into Graphitic Carbons for Electrochemical Energy Storage Applications. 2014 , 640, 1996-2006		98
1755	Aluminum Insertion-Induced Enhanced Performance of Li(Ni0.83-xCo0.10Mn0.07Aly)O2 Microspheres for Lithium-Ion Batteries Design. 2014 , 1, 601-610		16
1754	Lithium-Ion Batteries with a Wide Temperature Range Operability Enabled by Highly Conductive sp3 Boron-Based Single Ion Polymer Electrolytes. 2014 , 2, 643-650		24
1753	Understanding of Sulfurized Polyacrylonitrile for Superior Performance Lithium/Sulfur Battery. 2014 , 7, 4588-4600		160
1752	Synthesis of 3D-hierarchical NiO-G composites with enhanced electrochemical performances as anode for lithium secondary batteries. 2014 ,		1
1751	Anode performance of lithium lilicon alloy prepared by mechanical alloying for use in all-solid-state lithium secondary batteries. 2014 , 53, 08NK02		6
1750	CMOS-compatible metal-stabilized nanostructured Si as anodes for lithium-ion microbatteries. 2014 , 9, 613		5
1749	Porous Silicon as Nanostructured Anode Material for Lithium Ion Batteries. 2014 , 62, 25-34		O
1748	. 2014,		9
1747	Chemical delithiation and exfoliation of [Formula: see text]. 2014 , 220, 102-110		23
1746	Cycle Life of Commercial Lithium-Ion Batteries with Lithium Titanium Oxide Anodes in Electric Vehicles. 2014 , 7, 4895-4909		81

1745	Effect of electrochemical dissolution and deposition order on lithium dendrite formation: a top view investigation. 2014 , 176, 109-24		39
1744	Detecting Aging Phenomena in Commercial Cathodes for Li-Ion Batteries Using High Resolution Computed Tomography. 2014 , 93, 158-163		2
1743	Effect of acid scavengers on electrochemical performance of lithiumBulfur batteries: Functional additives for utilization of LiPF6. 2014 , 53, 08NK01		9
1742	Multi-band reflectance spectroscopy of carbonaceous lithium iron phosphate battery electrodes versus state of charge. 2014 ,		2
1741	Research on the Orthogonal Test of Spot Welding Parameters of Power Battery Packs. 2014 , 716-717, 1118-1122		1
1740	Comparative efficiency and driving range of light- and heavy-duty vehicles powered with biomass energy stored in liquid fuels or batteries. 2014 , 111, 3360-4		10
1739	Li[Li 0.2 Mn 0.54 Ni 0.13 Co 0.13]O 2 MoO 3 composite cathodes with low irreversible capacity loss for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 247, 20-25	8.9	86
1738	Composite protective layer for Li metal anode in high-performance lithium bxygen batteries. 2014 , 40, 45-48		111
1737	New Insights in to the Lithium Storage Mechanism in Polymer Derived SiOC Anode Materials. 2014 , 119, 78-85		83
1736	Simulation of lithium iron phosphate lithiation/delithiation: Limitations of the core\(\text{lhell model} \) 2014 , 115, 352-357		11
1735	Solution combustion synthesis of LiMn2O4 fine powders for lithium ion batteries. 2014 , 25, 342-347		46
1734	Buckypaper electrode containing carbon nanofiber/Co3O4 composite for enhanced lithium air batteries. 2014 , 268, 216-221		17
1733	Preparation and electrochemical properties of Zr-site substituted Li7La3(Zr2\(\textbf{M}\)x)O12 (M´=Ta, Nb) solid electrolytes. <i>Journal of Power Sources</i> , 2014 , 261, 206-211	8.9	52
1732	Primary and secondary use of electric mobility batteries from a life cycle perspective. <i>Journal of Power Sources</i> , 2014 , 262, 169-177	8.9	84
1731	In-situ X-ray diffraction study on the structural evolutions of oxidized fluorophosphates as anode materials for lithium-ion batteries. 2014 , 40, 9107-9120		5
1730	(Fe2O3)1 (V2O5)x solid solutions: An excellent lithium ion anodes material. 2014 , 5, 9-19		17
1729	Modeling of volume change phenomena in a LiBir battery. <i>Journal of Power Sources</i> , 2014 , 258, 340-350	8.9	39
1728	Facile synthesis of 3D networks of C/SnOx/C hybrid nanofibers with enhanced lithium storage. 2014 , 116, 271-274		4

1727	MnSn2 electrodes for Li-ion batteries: Mechanisms at the nano scale and electrode/electrolyte interface. 2014 , 123, 72-83		37
1726	Enhanced separator properties by thermal curing of poly(ethylene glycol)diacrylate-based gel polymer electrolytes for lithium-ion batteries. 2014 , 120, 159-166		15
1725	Li and Na storage behavior of bowl-like hollow Co3O4 microspheres as an anode material for lithium-ion and sodium-ion batteries. 2014 , 132, 193-199		88
1724	Preparation and electrochemical properties of gel polymer electrolytes using triethylene glycol diacetate-2-propenoic acid butyl ester copolymer for high energy density lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 249, 392-396	8.9	33
1723	Online peak power prediction based on a parameter and state estimator for lithium-ion batteries in electric vehicles. 2014 , 66, 766-778		69
1722	An improved solid-state reaction to synthesize Zr-doped Li4Ti5O12 anode material and its application in LiMn2O4/Li4Ti5O12 full-cell. 2014 , 40, 10053-10059		31
1721	A closed loop process for recycling spent lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 262, 255-	-8.692	243
1720	Statistical analysis for understanding and predicting battery degradations in real-life electric vehicle use. <i>Journal of Power Sources</i> , 2014 , 245, 846-856	8.9	60
1719	Modeling of steady-state convective cooling of cylindrical Li-ion cells. <i>Journal of Power Sources</i> , 2014 , 258, 374-381	8.9	40
1718	Development of a voltage relaxation model for rapid open-circuit voltage prediction in lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 253, 412-418	8.9	64
1717	State of charge estimation of lithium-ion batteries using the open-circuit voltage at various ambient temperatures. 2014 , 113, 106-115		414
1716	Poly(vinylidene fluoride)-based, co-polymer separator electrolyte membranes for lithium-ion battery systems. <i>Journal of Power Sources</i> , 2014 , 245, 779-786	8.9	123
1715	Hierarchical nanowires for high-performance electrochemical energy storage. 2014 , 9, 303-322		16
1714	Lithium electrolytes based on modified imidazolium ionic liquids. 2014 , 39, 2943-2952		25
1713	Graphene for advanced Li/S and Li/air batteries. 2014 , 2, 33-47		154
1712	A novel design approach for lithium-sulphur batteries. 2014 , 50, 317-326		2
1711	Si/C hybrid nanostructures for Li-ion anodes: An overview. <i>Journal of Power Sources</i> , 2014 , 246, 167-177	8.9	194
1710	Modeling dendrite growth during lithium electrodeposition at sub-ambient temperature. <i>Journal of Power Sources</i> , 2014 , 246, 84-89	8.9	99

1709	Microemulsion-assisted synthesis of ultrafine Li4Ti5O12/C nanocomposite with oleic acid as carbon precursor and particle size controller. <i>Journal of Power Sources</i> , 2014 , 246, 213-218	8.9	37
1708	Stability of spinel Li4Ti5O12 in air. <i>Journal of Power Sources</i> , 2014 , 245, 684-690	8.9	39
1707	A review of high energy density lithium ir battery technology. 2014 , 44, 5-22		148
1706	Properties of LiMn2O4 cathode in electrolyte based on ionic liquid with and without gamma-butyrolactone. 2014 , 18, 1077-1085		10
1705	An electrochemicalEhermal model based on dynamic responses for lithium iron phosphate battery. Journal of Power Sources, 2014 , 255, 130-143	8.9	106
1704	Facile Synthesis of Fe2O3-graphite Composite with Stable Electrochemical Performance as Anode Material for Lithium Ion Batteries. 2014 , 125, 421-426		35
1703	Stable SiOC/Sn Nanocomposite Anodes for Lithium-Ion Batteries with Outstanding Cycling Stability. 2014 , 24, 4097-4104		69
1702	Characterization of the solid electrolyte interphase on lithium anode for preventing the shuttle mechanism in lithium allfur batteries. <i>Journal of Power Sources</i> , 2014 , 246, 840-845	8.9	297
1701	Analysis of the solid electrolyte interphase formed with an ionic liquid electrolyte for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014 , 252, 150-155	8.9	93
1700	Electrodeposited 3D porous silicon/copper films with excellent stability and high rate performance for lithium-ion batteries. 2014 , 2, 2478		46
1699	Interface chemistry engineering of protein-directed SnOIhanocrystal-based anode for lithium-ion batteries with improved performance. 2014 , 10, 998-1007		31
1698	Li[Li0.2Ni0.16Mn0.56Co0.08]O2 nanoparticles prepared using a surfactant modified combustion method. 2014 , 32, 324-331		3
1697	Improved electrochemical performance of Ag-modified Li4Ti5O12 anode material in a broad voltage window. 2014 , 126, 17-23		12
1696	Synthesis parameter dependence of the electrochemical performance of solvothermally synthesized Li4Ti5O12. 2014 , 3, 1		6
1695	High performance graphene/manganese oxide hybrid electrode with flexible holey structure. 2014 , 129, 237-244		26
1694	Cathode refunctionalization as a lithium ion battery recycling alternative. <i>Journal of Power Sources</i> , 2014 , 256, 274-280	8.9	52
1693	Coated Lithium Powder (CLiP) Electrodes for Lithium-Metal Batteries. 2014 , 4, 1300815		139
1692	DFT analysis of Li intercalation mechanisms in the Fe-phthalocyanine cathode of Li-ion batteries. 2014 , 16, 743-52		17

1691	Control Strategy Influence on the Efficiency of a Hybrid Photovoltaic-Battery-Fuel Cell System Distributed Generation System for Domestic Applications. 2014 , 45, 237-246		27
1690	High rate Li4Ti5O12@C anode material fabricated by a facile carbon coating method. 2014 , 722-723, 54-59		13
1689	Synthesis of Silicon and Germanium Nanowire Assemblies by Template-Assisted Electrodeposition from an Ionic Liquid. 2014 , 67, 875		7
1688	Conformal coating of TiO2 nanorods on a 3-D CNT scaffold by using a CNT film as a nanoreactor: a free-standing and binder-free Li-ion anode. 2014 , 2, 2701		43
1687	Lithium and Lithium Compounds. 2014 , 1-38		9
1686	Review on recent progress of nanostructured anode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 257, 421-443	8.9	1494
1685	Pilot-scale elaboration of graphite/microfibrillated cellulose anodes for Li-ion batteries by spray deposition on a forming paper sheet. 2014 , 243, 372-379		24
1684	Template-free synthesis of homogeneous yolk@hell TiO2 hierarchical microspheres for high performance lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 262, 72-78	8.9	46
1683	Effects of oxidation on structure and performance of LiVPO4F as cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 248, 874-885	8.9	35
1682	. 2014 , 102, 843-859		45
1681	Synthesis and electrochemistry of polymer based electrolytes for lithium batteries. 2014 , 42, 85-105		41
1680	Facile preparation of [Bi6O4](OH)4(NO3)6[4H2O, [Bi6O4](OH)4(NO3)6[H2O and [Bi6O4](OH)4(NO3)6[H2O/C as novel high capacity anode materials for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 254, 88-97	8.9	15
1679	Facile synthesis of titanium nitride nanowires on carbon fabric for flexible and high-rate lithium ion		124
	batteries. 2014 , 2, 10825-10829		
1678	Temperature dependent ageing mechanisms in Lithium-ion batteries IA Post-Mortem study. Journal of Power Sources, 2014, 262, 129-135	8.9	505
1678 1677	Temperature dependent ageing mechanisms in Lithium-ion batteries [A Post-Mortem study.	8.9	505 98
1677	Temperature dependent ageing mechanisms in Lithium-ion batteries IA Post-Mortem study. Journal of Power Sources, 2014, 262, 129-135 Experimental analysis on the performance of lithium based batteries for road full electric and	8.9	
1677	Temperature dependent ageing mechanisms in Lithium-ion batteries IA Post-Mortem study. Journal of Power Sources, 2014, 262, 129-135 Experimental analysis on the performance of lithium based batteries for road full electric and hybrid vehicles. 2014, 136, 921-930	8.9	98
1677 1676	Temperature dependent ageing mechanisms in Lithium-ion batteries IA Post-Mortem study. <i>Journal of Power Sources</i> , 2014 , 262, 129-135 Experimental analysis on the performance of lithium based batteries for road full electric and hybrid vehicles. 2014 , 136, 921-930 Fuel-cell (hydrogen) electric hybrid vehicles. 2014 , 685-735 Crumpled graphene-molybdenum oxide composite powders: preparation and application in lithium-ion batteries. 2014 , 7, 523-8	8.9	98

1673	Sodium-ion battery based on an electrochemically converted NaFePO4 cathode and nanostructured tin-carbon anode. 2014 , 15, 2152-5		50
1672	Redox Flow Batteries: An Engineering Perspective. 2014 , 102, 976-999		147
1671	Enhancing thermal and ionic conductivities of electrospun PAN and PMMA nanofibers by graphene nanoflake additions for battery-separator applications. 2014 , 38, 2044-2051		60
1670	. 2014 , 61, 6758-6768		44
1669	Effects of fluorinated SiO2 nanoparticles on the thermal and electrochemical properties of PP nonwoven/PVdF-HFP composite separator for Li-ion batteries. 2014 , 455, 368-374		49
1668	Ionic liquids at electrified interfaces. 2014 , 114, 2978-3036		905
1667	A High-Energy Li-Ion Battery Using a Silicon-Based Anode and a Nano-Structured Layered Composite Cathode. 2014 , 24, 3036-3042		116
1666	Energy-Aware Mobile Learning:Opportunities and Challenges. 2014, 16, 234-265		29
1665	The influence of carrier density and doping type on lithium insertion and extraction processes at silicon surfaces. 2014 , 135, 356-367		21
1664	In situ sulfur deposition route to obtain sulfurdarbon composite cathodes for lithiumBulfur batteries. 2014 , 2, 4316-4323		81
1663	Heterostructures for Improved Stability of Lithium Sulfur Batteries. 2014 , 161, A1173-A1180		8
1662	3D Interconnected Porous Carbon Aerogels as Sulfur Immobilizers for Sulfur Impregnation for Lithium-Sulfur Batteries with High Rate Capability and Cycling Stability. 2014 , 24, 2500-2509		197
1661	Electrolytes for Lithium and Lithium-Ion Batteries. 2014,		100
1660	Binary Lithium Indides Li22\(\mathbb{I}\)In8+x (x = 0.1), Li11\(\mathbb{I}\)In4+x (x = 1.05), and Li10\(\mathbb{I}\)In2+x (x = 1.59) with Clusters. 2014 , 2014, 2053-2064		3
1659	Facile synthesis of mesoporous Ge/C nanocomposite as anode material for lithium-ion battery. 2014 , 124, 73-76		10
1658	Effects of synthesis conditions on the structural, stability and ion conducting properties of Li0.30(La0.50Ln0.50)0.567TiO3 (Ln=La, Pr, Nd) solid electrolytes for rechargeable lithium batteries. 2014 , 40, 8761-8768		14
1657	Spark plasma sintered/synthesized dense and nanostructured materials for solid-state Li-ion batteries: Overview and perspective. <i>Journal of Power Sources</i> , 2014 , 247, 920-931	8.9	77
1656	Entrapping electrode materials within ultrathin carbon nanotube network for flexible thin film lithium ion batteries. 2014 , 4, 20010-20016		37

1655	Sulfur X-ray absorption fine structure in porous LiB cathode films measured under argon atmospheric conditions. 2014 , 94-95, 22-26	5
1654	A Heat Resistant and Flame-Retardant Polysulfonamide/Polypropylene Composite Nonwoven for High Performance Lithium Ion Battery Separator. 2014 , 161, A1032-A1038	24
1653	Scalable Solution-Grown High-Germanium-Nanoparticle-Loading Graphene Nanocomposites as High-Performance Lithium-Ion Battery Electrodes: An Example of a Graphene-Based Platform toward Practical Full-Cell Applications. 2014 , 26, 2172-2179	122
1652	Carbon Materials in Lithium-ion Rechargeable Batteries. 2014 , 267-287	1
1651	Energy consumption and cost-benefit analysis of hybrid and electric city buses. 2014 , 38, 1-15	191
1650	Vein graphite deposits: geological settings, origin, and economic significance. 2014 , 49, 261-277	55
1649	LiFe1MMIIxPO4/C (MII=Co, Ni, Mg) as cathode materials for lithium-ion batteries. 2014 , 122, 180-186	34
1648	Physical properties of the cubic spinel LiMn2O4. 2014 , 75, 463-469	8
1647	Li2S-reduced graphene oxide nanocomposites as cathode material for lithium sulfur batteries. Journal of Power Sources, 2014 , 251, 331-337	96
1646	Design of a lithium-ion battery pack for PHEV using a hybrid optimization method. 2014 , 115, 591-602	58
1645	A new lithium secondary battery system: the sulfur/lithium-ion battery. 2014 , 2, 308-314	42
1644	In-situ gelled electrolyte for lithium battery: Electrochemical and Raman characterization. <i>Journal of Power Sources</i> , 2014 , 245, 232-235	7
1643	Oxygen electrocatalysts in metal-air batteries: from aqueous to nonaqueous electrolytes. 2014 , 43, 7746-86	1073
1642	A comparative study of commercial lithium ion battery cycle life in electrical vehicle: Aging mechanism identification. <i>Journal of Power Sources</i> , 2014 , 251, 38-54	380
1641	Activated Li2S as a High-Performance Cathode for Rechargeable Lithium-Sulfur Batteries. 2014 , 5, 3986-91	86
1640	Robust sliding mode observer using RBF neural network for lithium-ion battery state of charge estimation in electric vehicles. 2014 ,	3
1639	Modelling of the battery pack thermal management system for Hybrid Electric Vehicles. 2014,	2
1638	Template-free synthesis of vanadium oxides nanobelt arrays as high-rate cathode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 268, 700-705	34

1637	An Equivalent Circuit Model With Variable Effective Capacity for \$hbox{LiFePO}_{4}\$ Batteries. 2014 , 63, 3592-3599	25
1636	Synthesis and electrochemical properties of gel polymer electrolyte using poly(2-(dimethylamino)ethyl methacrylate-co-methyl methacrylate) for fabricating lithium ion polymer battery. 2014 , 22, 875-881	3
1635	All-solid-state lithium organic battery with composite polymer electrolyte and pillar[5]quinone cathode. 2014 , 136, 16461-4	305
1634	Electrochemical synthesis of lithium nanotubes from an ionic liquid. 2014 , 48, 91-94	5
1633	Modeling and state of charge estimation of a lithium ion battery using unscented Kalman filter in a nanosatellite. 2014 ,	1
1632	Selection and Performance-Degradation Modeling of LiMO\$_{2}\$/Li\$_{4}\$Ti\$_{5}\$O \$_{12}\$ and LiFePO \$_{4}\$/C Battery Cells as Suitable Energy Storage Systems for Grid Integration With. 2014 , 5, 90-101	91
1631	Morphology control of SnO and application in lithium-ion batteries. 2014 , 16, 2589	9
1630	Si@SiO2 nanowires/carbon textiles cable-type anodes for high-capacity reversible lithium-ion batteries. 2014 , 4, 18391	10
1629	A new approach for rapid electrolyte wetting in tape cast electrodes for lithium-ion batteries. 2014 , 2, 14918-14926	61
1628	Piperidinium tethered nanoparticle-hybrid electrolyte for lithium metal batteries. 2014 , 2, 11866-11873	36
1627	Flexible and high performing polymer electrolytes obtained by UV-induced polymerfiellulose grafting. 2014 , 4, 40873-40881	9
1626	Polyhedral LiNi0.5Mn1.5O4 with excellent electrochemical properties for lithium-ion batteries. 2014 , 2, 12835-12848	64
1625	Catalyst engineering for lithium ion batteries: the catalytic role of Ge in enhancing the electrochemical performance of SnO2(GeO2)0.13/G anodes. 2014 , 6, 15020-8	24
1624	On Line Battery Capacity Estimation Based on Half-Cell Open Circuit Voltages. 2014 , 161, A1788-A1793	6
1623	Titanium nitride coating to enhance the performance of silicon nanoparticles as a lithium-ion battery anode. 2014 , 2, 10375-10378	67
1622	Failure Study of Commercial LiFePO4Cells in over-Discharge Conditions Using Electrochemical Impedance Spectroscopy. 2014 , 161, A620-A632	39
1621	Comparative investigation of microporous and nanosheet LiVOPO4 as cathode materials for lithium-ion batteries. 2014 , 4, 41076-41080	20
1620	Improved cycling performance of a silicon anode for lithium ion batteries using carbon nanocoils. 2014 , 4, 40812-40815	9

1619	A lithium iron phosphate/nitrogen-doped reduced graphene oxide nanocomposite as a cathode material for high-power lithium ion batteries. 2014 , 2, 9594-9599	36
1618	Lithiated MoO2 Nanorods with Greatly Improved Electrochemical Performance for Lithium Ion Batteries. 2014 , 2014, 352-356	12
1617	Membraneless hydrogen peroxide micro semi-fuel cell for portable applications. 2014 , 4, 37284-37287	20
1616	Influence of chemical microstructure of single-ion polymeric electrolyte membranes on performance of lithium-ion batteries. 2014 , 6, 17534-42	49
1615	Titania-carbon nanocomposite anodes for lithium ion batterieseffects of confined growth and phase synergism. 2014 , 6, 18215-27	22
1614	Impacts of battery characteristics, driver preferences and road network features on travel costs of a plug-in hybrid electric vehicle (PHEV) for long-distance trips. 2014 , 74, 168-178	24
1613	Stable, high voltage Li0.85Ni0.46Cu0.1Mn1.49O4 spinel cathode in a lithium-ion battery using a conversion-type CuO anode. 2014 , 6, 5206-11	34
1612	Recycling chicken eggshell membranes for high-capacity sodium battery anodes. 2014 , 4, 50950-50954	24
1611	A new, high energy Sn-C/Li[Li(0.2)Ni(0.4)/3Co(0.4)/3Mn(1.6/3)]O2 lithium-ion battery. 2014 , 6, 12956-61	30
1610	Reduced graphene oxide modified V2O3 with enhanced performance for lithium-ion battery. 2014 , 137, 174-177	26
1609	Lithium and sodium battery cathode materials: computational insights into voltage, diffusion and nanostructural properties. 2014 , 43, 185-204	765
1608	Revisiting Li3V2(PO4)3 as an anode the outstanding negative electrode for high power energy storage devices. 2014 , 2, 17906-17913	27
1607	Temperature-induced structural and chemical changes of ultrathin ethylene carbonate films on Cu(111). 2014 , 16, 11191-5	10
1606	A pore-scale smoothed particle hydrodynamics model for lithium-ion batteries. 2014 , 59, 2793-2810	
1605	A gel single ion polymer electrolyte membrane for lithium-ion batteries with wide-temperature range operability. 2014 , 4, 21163-21170	41
1604	Free-standing nitrogen doped V-O-C nanofiber film as promising electrode for flexible lithium-ion batteries. 2014 , 4, 51062-51066	1
1603	Modification of the electrochemical activity of LiMn1.95Si0.05O4 spinel via addition of phases with different physico-chemical properties. 2014 , 2, 3216	1
1602	Targeting adequate thermal stability and fire safety in selecting ionic liquid-based electrolytes for energy storage. 2014 , 16, 1967-76	62

1601	Gel electrolytes based on an ether-abundant polymeric framework for high-rate and long-cycle-life lithium ion batteries. 2014 , 2, 10492-10501		33	
1600	Effective passivation of a high-voltage positive electrode by 5-hydroxy-1H-indazole additives. 2014 , 2, 14628-14633		18	
1599	SnO2/C composites fabricated by a biotemplating method from cotton and their electrochemical performances. 2014 , 16, 3318-3322		24	
1598	The beneficial effect of protic ionic liquids on the lithium environment in electrolytes for battery applications. 2014 , 2, 8258-8265		62	
1597	An electrochemically grown three-dimensional porous Si@Ni inverse opal structure for high-performance Li ion battery anodes. 2014 , 2, 6396-6401		26	
1596	Compatibility of polymer electrolyte based on N-methyl-N-propylpiperidinium bis(trifluoromethanesulphonyl)imide ionic liquid with LiMn2O4 cathode in Li-ion batteries. 2014 , 267, 32-37		15	
1595	Enabling LiTFSI-based electrolytes for safer lithium-ion batteries by using linear fluorinated carbonates as (Co)solvent. 2014 , 7, 2939-46		57	
1594	Free-standing hierarchically sandwich-type tungsten disulfide nanotubes/graphene anode for lithium-ion batteries. 2014 , 14, 5899-904		243	
1593	Stabilized Lithium-Metal Surface in a Polysulfide-Rich Environment of Lithium-Sulfur Batteries. 2014 , 5, 2522-7		135	
1592	Application of quaternary polymer electrolyte based on ionic liquid in LiFePO4/Li, Li4Ti5O12/Li and LiFePO4/Li4Ti5O12 batteries. 2014 , 139, 337-344		19	
1591	Novel dual-salts electrolyte solution for dendrite-free lithium-metal based rechargeable batteries with high cycle reversibility. <i>Journal of Power Sources</i> , 2014 , 271, 291-297	8.9	2 60	
1590	Better than crystalline: amorphous vanadium oxide for sodium-ion batteries. 2014 , 2, 18208-18214		209	
1589	Phonons, lithium diffusion and thermodynamics of LiMPO4 (M = Mn, Fe). 2014 , 2, 14729-14738		11	
1588	Analytical modeling of dislocation effect on diffusion induced stress in a cylindrical lithium ion battery electrode. <i>Journal of Power Sources</i> , 2014 , 272, 121-127	8.9	35	
1587	Synthesis of hierarchically porous SnO(2) microspheres and performance evaluation as li-ion battery anode by using different binders. 2014 , 6, 16556-64		59	
1586	Out-of-Cell Oxygen Diffusivity Evaluation in LithiumAir Batteries. 2014 , 1, 2052-2057		6	
1585	Influence of Surface Structure on the Capacity and Irreversible Capacity Loss of Sn-Based Anodes for Lithium Ion Batteries. 2014 , 2, 1857-1863		6	
1584	Measurement of in-plane thermal conductivity and heat capacity of separator in Li-ion cells using a transient DC heating method. <i>Journal of Power Sources</i> , 2014 , 272, 378-385	8.9	26	

1583	The Role of Carbonate and Sulfite Additives in Propylene Carbonate-Based Electrolytes on the Formation of SEI Layers at Graphitic Li-Ion Battery Anodes. 2014 , 161, A1415-A1421		33
1582	Facile synthesis of nanosheet-structured V2O5 with enhanced electrochemical performance for high energy lithium-ion batteries. 2014 , 20, 983-988		19
1581	Pyrrolidinium-based ionic liquid electrolyte with organic additive and LiTFSI for high-safety lithium-ion batteries. 2014 , 148, 39-45		53
1580	High Capacity O3-Type Na[Li0.05(Ni0.25Fe0.25Mn0.5)0.95]O2 Cathode for Sodium Ion Batteries. 2014 , 26, 6165-6171		148
1579	Improved lithium storage capacities of LiMnBO3/C via simple high-energy milling. 2014 , 132, 401-404		8
1578	High-Energy Layered Oxide Cathodes with Thin Shells for Improved Surface Stability. 2014 , 26, 5973-597	9	38
1577	Lithium manganese spinel materials for high-rate electrochemical applications. 2014 , 23, 543-558		41
1576	A dispersion-corrected DFT study on adsorption of battery active materials anthraquinone and its derivatives on monolayer graphene and h-BN. 2014 , 2, 8910-8917		90
1575	Advances and challenges for flexible energy storage and conversion devices and systems. 2014 , 7, 2101		650
1574	Fuel economy analysis of conventional and hybrid heavy vehicle combinations over real-world operating routes. 2014 , 31, 70-84		20
1573	ZnFeO-C/LiFePO-CNT: A Novel High-Power Lithium-Ion Battery with Excellent Cycling Performance. 2014 , 4, 1-9		186
1572	Development of Electro-Spun Poly (Vinyl Alcohol)/Titanium Dioxide Membrane-Based Polymer Electrolytes for Lithium-Ion Batteries. 2014 , 63, 161-171		15
1571	Li-doped N-methoxyethyl-N-methylpyrrolidinium fluorosulfonyl-(trifluoromethanesulfonyl)imide as electrolyte for reliable lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 269, 645-650	8.9	18
1570	Materials that can replace liquid electrolytes in Li batteries: Superionic conductivities in Li1.7Al0.3Ti1.7Si0.4P2.6O12. Processing combustion synthesized nanopowders to free standing thin films. <i>Journal of Power Sources</i> , 2014 , 269, 577-588	8.9	46
1569	Graphene/silicon nanocomposite anode with enhanced electrochemical stability for lithium-ion battery applications. <i>Journal of Power Sources</i> , 2014 , 269, 873-882	8.9	93
1568	Poly(ethylene glycol)-Functionalized Hexaphenylbenzenes as Unique Amphiphiles: Supramolecular Organization and Ion Conductivity. 2014 , 47, 5691-5702		6
1567	Investigation of the Electrode/Electrolyte Interface of Fe2O3 Composite Electrodes: Li vs Na Batteries. 2014 , 26, 5028-5041		77
1566	Lithium plating in lithium-ion batteries at sub-ambient temperatures investigated by in situ neutron diffraction. <i>Journal of Power Sources</i> , 2014 , 271, 152-159	8.9	217

1565	A study of 40'Ah lithium ion batteries at zero percent state of charge as a function of temperature. Journal of Power Sources, 2014 , 269, 694-703	8.9	20	
1564	Assessment of cathode active materials from the perspective of integrating environmental impact with electrochemical performance. 2014 , 82, 213-220		7	
1563	Thermal analysis and two-directional air flow thermal management for lithium-ion battery pack. Journal of Power Sources, 2014 , 270, 193-200	8.9	125	
1562	Prediction of thermal behaviors of an air-cooled lithium-ion battery system for hybrid electric vehicles. <i>Journal of Power Sources</i> , 2014 , 270, 273-280	8.9	84	
1561	Possible application of 2D-boron sheets as anode material in lithium ion battery: A DFT and AIMD study. 2014 , 2, 3856		56	
1560	Domestic distributed power generation: Effect of sizing and energy management strategy on the environmental efficiency of a photovoltaic-battery-fuel cell system. 2014 , 77, 133-143		50	
1559	Thermal parameters determination of battery cells by local heat flux measurements. <i>Journal of Power Sources</i> , 2014 , 271, 48-54	8.9	38	
1558	An experimentally validated transient thermal model for cylindrical Li-ion cells. <i>Journal of Power Sources</i> , 2014 , 271, 262-268	8.9	35	
1557	Role of preparation methods on the structural and dielectric properties of plasticized polymer blend electrolytes: Correlation between ionic conductivity and dielectric parameters. 2014 , 142, 359-37	70	78	
1556	Non-aqueous aluminium ir battery based on ionic liquid electrolyte. <i>Journal of Power Sources</i> , 2014 , 272, 415-421	8.9	70	
1555	Quasi-Solid Semi-Interpenetrating Polymer Networks as Electrolytes: Part II. Assessing the Modes of IonIbn and IonIbn Interactions Employing Mid-Fourier Transform Infrared Vibrational Spectroscopy. 2014 , 118, 10640-10650		17	
1554	Functionalized meso/macro-porous single ion polymeric electrolyte for applications in lithium ion batteries. 2014 , 2, 2960-2967		46	
1553	Mixtures of Ionic Liquid and Sulfolane as Electrolytes for Li-Ion Batteries. 2014, 147, 704-711		28	
1552	Perfluoroalkyl-Fluorophosphate Anions for High Voltage Electrolytes in Lithium Cells: DFT Study. 2014 , 118, 24221-24230		12	
1551	Local Structure and Dynamics of Lithium Garnet Ionic Conductors: A Model Material Li5La3Ta2O12. 2014 , 26, 5613-5624		37	
1550	Graphene-based nanocomposite anodes for lithium-ion batteries. 2014 , 6, 11528-52		135	
1549	Structures, Thermodynamics, and Li+ Mobility of Li10GeP2S12: A First-Principles Analysis. 2014 , 118, 10590-10595		42	
1548	Synthesis and electrochemical properties of vanadium oxide materials and structures as Li-ion battery positive electrodes. <i>Journal of Power Sources</i> , 2014 , 267, 831-873	8.9	114	

1547	Facile synthesis of multiwalled carbon nanotube 1/205 nanocomposites as cathode materials for Li-ion batteries. 2014 , 18, 2841-2846	18
1546	Effect of Al2O3 -coating on the electrochemical performances of Li3V2(PO4)3/C cathode material. 2014 , 18, 2857-2862	15
1545	Facile synthesis of rGO/SnO2 composite anodes for lithium ion batteries. 2014 , 2, 17139-17145	54
1544	Efficient high active mass paper-based energy-storage devices containing free-standing additive-less polypyrrole∏anocellulose electrodes. 2014 , 2, 7711-7716	56
1543	Cobalt orthosilicate as a new electrode material for secondary lithium-ion batteries. 2014 , 43, 15013-21	49
1542	Enhanced cycling stability of o-LiMnO2 cathode modified by lithium boron oxide coating for lithium-ion batteries. 2014 , 18, 1915-1922	5
1541	Effect of synthesis temperature, time, and carbon content on the properties and lithium-ion diffusion of LiFePO4/C composites. 2014 , 18, 2401-2410	10
1540	Fast microwave-assisted synthesis of Nb-doped Li4Ti5O12 for high-rate lithium-ion batteries. 2014 , 16, 1	19
1539	An advanced lithium-ion battery based on a graphene anode and a lithium iron phosphate cathode. 2014 , 14, 4901-6	347
1538	Characterization of solid electrolyte interphase on lithium electrodes cycled in ether-based electrolytes for lithium batteries. 2014 , 719, 122-126	33
1537	A computational homogenization approach for Li-ion battery cells: Part 1 [formulation. 2014, 65, 114-137	48
1536	Stabilizing nanostructured lithium insertion materials via organic hybridization: A step forward towards high-power batteries. <i>Journal of Power Sources</i> , 2014 , 248, 852-860	14
1535	Performance of through-hole anodic aluminum oxide membrane as a separator for lithium-ion battery. 2014 , 461, 22-27	52
1534	High lithium ion conductivity of Li7La3Zr2O12 synthesized by solid state reaction. 2014 , 258, 13-17	30
1533	Porous carbon materials for LiB batteries based on resorcinolformaldehyde resin with inverse opal structure. <i>Journal of Power Sources</i> , 2014 , 261, 363-370	35
1532	Economic and environmental characterization of an evolving Li-ion battery waste stream. 2014 , 135, 126-34	96
1531	Three dimensional studies of particle failure in silicon based composite electrodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 269, 334-343	66
1530	Fe3O4/reduced graphene oxide with enhanced electrochemical performance towards lithium storage. 2014 , 2, 7214-7220	70

1529	Hydrogenation of nanostructured semiconductors for energy conversion and storage. 2014 , 59, 2144-2161	14
1528	Heteroatom-doped graphene for electrochemical energy storage. 2014 , 59, 2102-2121	37
1527	Structure and electrochemical performance of LiCoO2 cathode material in different voltage ranges. 2014 , 20, 1525-1534	25
1526	Lithium titanate as anode material for lithium-ion cells: a review. 2014 , 20, 601-620	97
1525	Laser-printed lithium-sulphur micro-electrodes for Li/S batteries. 2014 , 50, 327-335	5
1524	In situ coating of NiO on Ni-silicide nanowires with roughened surfaces for improved electrochemical energy storage. 2014 , 2, 9156	4
1523	Polyvinyl formal based single-ion conductor membranes as polymer electrolytes for lithium ion batteries. 2014 , 469, 67-72	29
1522	Stepwise co-precipitation to synthesize LiNi1/3Co1/3Mn1/3O2 one-dimensional hierarchical structure for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 272, 144-151	65
1521	Anodic Rate Performance in Lithium-Ion Batteries of Graphite Materials Based on Carbonaceous Wastes. 2014 , 161, A2026-A2030	3
1520	Influence of different salts in poly(vinylidene fluoride-co-trifluoroethylene) electrolyte separator membranes for battery applications. 2014 , 727, 125-134	9
1519	Calendar ageing analysis of a LiFePO4/graphite cell with dynamic model validations: Towards realistic lifetime predictions. <i>Journal of Power Sources</i> , 2014 , 272, 45-57	108
1518	Synthesis of LiMn2O4 with Outstanding Lithium-Insertion Kinetics and Long-Term Stability. 2014 , 1, 1537-154	·2 ₇
1517	Model based condition monitoring in lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 268, 459-4688.9	31
1516	Lithium ion battery chemistries from renewable energy storage to automotive and back-up power applications [An overview. 2014 ,	50
1515	Molecular dynamics simulation of electrokinetic flow of an aqueous electrolyte solution in nanochannels. 2014 , 140, 214701	41
1514	Computational and experimental investigation of Li-doped ionic liquid electrolytes: [pyr14][TFSI], [pyr13][FSI], and [EMIM][BF4]. 2014 , 118, 11295-309	101
1513	Epitaxial Growth of LiMn2O4 Thin Films by Chemical Solution Deposition for Multilayer Lithium-Ion Batteries. 2014 , 118, 19540-19547	22
1512	Vapour solid reaction growth of SnO2 nanorods as an anode material for Li ion batteries. 2014 , 4, 26115-2612	14

1511	Mixtures of protic ionic liquids and propylene carbonate as advanced electrolytes for lithium-ion batteries. 2014 , 16, 25014-23		47
1510	Voltage gain in lithiated enolate-based organic cathode materials by isomeric effect. 2014 , 6, 10870-6		88
1509	Suppression of lithium dendrite growth using cross-linked polyethylene/poly(ethylene oxide) electrolytes: a new approach for practical lithium-metal polymer batteries. 2014 , 136, 7395-402		600
1508	A design methodology for semi-physical fuzzy models applied to the dynamic characterization of LiFePO4 batteries. 2014 , 14, 269-288		22
1507	Embedding tin nanoparticles in micron-sized disordered carbon for lithium- and sodium-ion anodes. 2014 , 128, 163-171		74
1506	AB5-alloy oxide/graphene composite anode with excellent cyclic stability for lithium ion batteries. 2014 , 582, 289-293		11
1505	Unexpected performance of layered sodium-ion cathode material in ionic liquid-based electrolyte. Journal of Power Sources, 2014 , 247, 377-383	8.9	113
1504	Evaluation of mechanical abuse techniques in lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 247, 189-196	8.9	115
1503	Direct mapping of Li distribution in electrochemically lithiated graphite anodes using scanning Auger electron microscopy. <i>Journal of Power Sources</i> , 2014 , 248, 1118-1122	8.9	15
1502	Carbon nanowires@ultrathin SnO2 nanosheets@carbon composite and its lithium storage properties. <i>Journal of Power Sources</i> , 2014 , 246, 587-595	8.9	26
1501	LiZn($4 - x$) ($x = 0.825$) as a ($3 + 1$)-dimensional modulated derivative of hexagonal close packing. 2014 , 70, 212-7		10
1500	Electrochemistry of graphene and related materials. 2014 , 114, 7150-88		802
1499	Molecular dynamics modeling the Li-PolystyreneTFSI/PEO blend. 2014, 262, 769-773		18
1498	Performance of LiNi1/3Mn1/3Co1/3O2/graphite batteries based on aqueous binder. <i>Journal of Power Sources</i> , 2014 , 248, 915-922	8.9	87
1497	Sn-contained N-rich carbon nanowires for high-capacity and long-life lithium storage. 2014 , 127, 390-39	6	31
1496	A three volt lithium ion battery with LiCoPO4 and zero-strain Li4Ti5O12 as insertion material. 2014 , 125, 58-64		16
1495	Hierarchical carbon-coated LiFePO4 nano-grain microspheres with high electrochemical performance as cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 256, 336-344	8.9	24
1494	Effect of organic solvent addition to PYR13FSI´+´LiFSI electrolytes on aluminum oxidation and rate performance of Li(Ni1/3Mn1/3Co1/3)O2 cathodes. <i>Journal of Power Sources</i> , 2014 , 265, 132-139	8.9	33

1493	Non-uniform aging of cycled commercial LiFePO4//graphite cylindrical cells revealed by post-mortem analysis. <i>Journal of Power Sources</i> , 2014 , 257, 126-137	8.9	137
1492	Electrolyte based on 1-ethyl-3-vinylimidazolium bis(trifluoromethanesulphonyl)imide for Li-ion batteries. 2014 , 132, 504-511		15
1491	New concept for energy storage: Microwave-induced carbon gasification with CO2. 2014 , 78, 559-564		39
1490	Preparation of organic/inorganic hybrid semi-interpenetrating network polymer electrolytes based on poly(ethylene oxide-co-ethylene carbonate) for all-solid-state lithium batteries at elevated temperatures. 2014 , 55, 2799-2808		63
1489	Characteristics of Li2S8-tetraglyme catholyte in a semi-liquid lithium Bulfur battery. <i>Journal of Power Sources</i> , 2014 , 265, 14-19	8.9	63
1488	Experimental and numerical investigation of the application of phase change materials in a simulative power batteries thermal management system. 2014 , 121, 104-113		154
1487	Preparation and electrochemical properties of core-shell carbon coated MnBn complex metal oxide as anode materials for lithium-ion batteries. 2014 , 292, 682-687		10
1486	Carbon-coated Li4Ti5O12 Anode Materials Synthesized Using H2TiO3 as Ti Source. 2014 , 30, 1092-1095		8
1485	Nitrogen-doped carbon coated TiO2 nanocomposites as anode material to improve cycle life for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 253, 193-200	8.9	74
1484	Effect of Mg doping on the local structure of LiMgyCo1ŊO2 cathode material investigated by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2014 , 252, 292-297	8.9	18
1483	Fluorinated phosphazene co-solvents for improved thermal and safety performance in lithium-ion battery electrolytes. <i>Journal of Power Sources</i> , 2014 , 263, 66-74	8.9	40
1482	Hierarchical Co3O4 Nanoparticles Embedded in a Carbon Matrix for Lithium-Ion Battery Anode Materials. 2014 , 133, 16-22		41
1481	Synthesis of three-dimensionally porous MnO thin films for lithium-ion batteries by improved Electrostatic Spray Deposition technique. 2014 , 121, 15-20		41
1480	Polycarbonate-based solid polymer electrolytes for Li-ion batteries. 2014 , 262, 738-742		151
1479	Modeling the delamination of amorphous-silicon thin film anode for lithium-ion battery. <i>Journal of Power Sources</i> , 2014 , 246, 149-159	8.9	67
1478	Porous Fe2O3 nanorods anchored on nitrogen-doped graphenes and ultrathin Al2O3 coating by atomic layer deposition for long-lived lithium ion battery anode. 2014 , 76, 141-147		42
1477	Rapid aqueous synthesis of ordered mesoporous carbons: Investigation of synthesis variables and application as anode materials for Li-ion batteries. 2014 , 195, 92-101		12
1476	A comparative study of commercial lithium ion battery cycle life in electric vehicle: Capacity loss estimation. <i>Journal of Power Sources</i> , 2014 , 268, 658-669	8.9	159

1475	Advanced Na[Ni0.25Fe0.5Mn0.25]O2/C-Fe3O4 sodium-ion batteries using EMS electrolyte for energy storage. 2014 , 14, 1620-6		241
1474	Fast Li-ion conduction in poly(ethylene carbonate)-based electrolytes and composites filled with TiO2 nanoparticles. 2014 , 50, 4448-50		213
1473	Spent rechargeable lithium batteries in e-waste: composition and its implications. 2014 , 8, 792-796		55
1472	Recent progress on synchrotron-based in-situ soft X-ray spectroscopy for energy materials. 2014 , 26, 7710-29		108
1471	Cellulose/acrylate membranes for flexible lithium batteries electrolytes: Balancing improved interfacial integrity and ionic conductivity. 2014 , 57, 22-29		15
1470	A Layered Carbon Nanotube Architecture for High Power Lithium Ion Batteries. 2014 , 161, A989-A995		17
1469	Chemically anchored liquid-PEO based block copolymer electrolytes for solid-state lithium-ion batteries. 2014 , 2, 11839-11846		58
1468	Functionalized graphene-based cathode for highly reversible lithium-sulfur batteries. 2014 , 7, 1265-73		46
1467	Electrodeposition and stripping of zinc from an ionic liquid polymer gel electrolyte for rechargeable zinc-based batteries. 2014 , 18, 2683-2691		22
1466	Highly reversible Mg insertion in nanostructured Bi for Mg ion batteries. 2014 , 14, 255-60		201
1465	Reaction and transport in Ag/Ag2O gas diffusion electrodes of aqueous LiD2 batteries: Experiments and modeling. <i>Journal of Power Sources</i> , 2014 , 264, 320-332	8.9	27
1464	Core-shell meso/microporous carbon host for sulfur loading toward applications in lithium-sulfur batteries. 2014 , 23, 308-314		49
1463	Influence of LiMn2O4 modification with CeO2 on electrode performance. 2014 , 136, 286-291		35
1462	Polyvinylpyrrolidone as binder for castable supercapacitor electrodes with high electrochemical performance in organic electrolytes. <i>Journal of Power Sources</i> , 2014 , 266, 374-383	8.9	72
1461	Structuring materials for lithium-ion batteries: advancements in nanomaterial structure, composition, and defined assembly on cell performance. 2014 , 2, 9433		118
1461 1460			118
	composition, and defined assembly on cell performance. 2014 , 2, 9433 A New Class of Ion-Conductive Polymer Electrolytes: CO2/Epoxide Alternating Copolymers With	4	11845

1457	Mesoporous Spinel Li4Ti5O12 Nanoparticles for High Rate Lithium-ion Battery Anodes. 2014 , 133, 578-582	35
1456	Thermoplastic and solid-like electrolytes with liquid-like ionic conductivity based on poly(ethylene oxide) nanocomposites. 2014 , 261, 74-80	19
1455	Recent advances in the Si-based nanocomposite materials as high capacity anode materials for lithium ion batteries. 2014 , 17, 285-297	121
1454	X-ray absorption near-edge spectroscopy study on Ge-doped Li7La3Zr2O12: enhanced ionic conductivity and defect chemistry. 2014 , 115, 581-586	27
1453	Thermal and electrochemical properties of PEO-LiTFSI-Pyr14TFSI-based composite cathodes, incorporating 4V-class cathode active materials. <i>Journal of Power Sources</i> , 2014 , 246, 846-857	76
1452	Influence of citrate/nitrate ratio on the preparation of Li0.5La0.5TiO3 nanopowder by combustion method. 2014 , 40, 249-256	13
1451	Design of organicIhorganic hybrid ion-gel electrolytes composed of borosilicate and allylimidazolium type ionic liquids. 2014 , 39, 2936-2942	6
1450	Hydrolysis lignin: Electrochemical properties of the organic cathode material for primary lithium battery. 2014 , 20, 903-910	24
1449	Nanotin alloys supported by multiwall carbon nanotubes as high-capacity and safer anode materials for EV lithium batteries. <i>Journal of Power Sources</i> , 2014 , 245, 345-351	21
1448	Development of flexible solid electrolyte with high ion conductivity. 2014 , 122, 604-607	
1447	On the structural and impedance characteristics of Li- doped PEO, using n-butyl lithium in hexane as dopant. 2014 ,	
1446	3-D Micro and Nano Technologies for Improvements in Electrochemical Power Devices. 2014 , 5, 171-203	31
1445	New application perspective for tetrahedral amorphous carbon coatings. 2014 , 8	18
1444	Lithium Batteries: Status and Future. 2014 , 121-162	
1443	Nanocycles of Materials' Transport studied by in-situ Electron Microscopy and Diffraction. 2014 , 522, 012005	
1442	Lithium-Ion Batteries: Thermomechanics, Performance, and Design Optimization. 2015 , 1-16	1
1441	Rechargeable Battery Energy Storage System Design. 2015 , 1-18	6
1440	Sol G el Materials for Batteries and Fuel Cells. 2015, 1071-1118	2

1439	Sharp-interface model of electrodeposition and ramified growth. 2015 , 92, 042302	12
1438	Room temperature large-scale synthesis of layered frameworks as low-cost 4 V cathode materials for lithium ion batteries. 2015 , 5, 16270	34
1437	Compact flat-panel gas-gap heat switch operating at 295 K. 2015 , 86, 115116	6
1436	Analysis of Three-dimensional Porous Network Structure of Li-ion Battery Electrodes. 2015 , 83, 2-6	1
1435	Development of In Situ Cross-Sectional Raman Imaging of LiCoO2 Cathode for Li-ion Battery. 2015 , 83, 993-996	14
1434	Simple synthesis of highly catalytic carbon-free MnCo2O4@Ni as an oxygen electrode for rechargeable Li-O2 batteries with long-term stability. 2015 , 5, 13266	42
1433	Assessment of Products Future Reusability Based on Consumers Usage Behavior: Implications for Lithium-Ion Laptop Batteries. 2015 ,	
1432	Dynamic Battery Aging Model: Representation of Reversible Capacity Losses Using First Order Model Approach. 2015 ,	2
1431	A Data-Driven Based State of Energy Estimator of Lithium-ion Batteries Used to Supply Electric Vehicles. 2015 , 75, 1944-1949	7
1430	Safer Electrolytes for Lithium-Ion Batteries: State of the Art and Perspectives. 2015 , 8, 2154-75	474
1430 1429	Safer Electrolytes for Lithium-Ion Batteries: State of the Art and Perspectives. 2015 , 8, 2154-75 Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. 2015 , 5, 1500408	474 321
1429		
1429	Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. 2015 , 5, 1500408 Improving the Electrochemical Performance of the Li4Ti5O12 Electrode in a Rechargeable	321
1429 1428	Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. 2015, 5, 1500408 Improving the Electrochemical Performance of the Li4Ti5O12 Electrode in a Rechargeable Magnesium Battery by Lithium Magnesium Co-Intercalation. 2015, 127, 5849-5853 Electrospun Single-Phase Na1.2V3O8 Materials with Tunable Morphologies as Cathodes for	321
1429 1428 1427	Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. 2015, 5, 1500408 Improving the Electrochemical Performance of the Li4Ti5O12 Electrode in a Rechargeable Magnesium Battery by Lithium Magnesium Co-Intercalation. 2015, 127, 5849-5853 Electrospun Single-Phase Na1.2V3O8 Materials with Tunable Morphologies as Cathodes for Rechargeable Lithium-Ion Batteries. 2015, 2, 837-846 Fabrication of Fe-Doped LiCoO2 Sandwich-Like Nanocomposites as Excellent Performance Cathode	321 26 10
1429 1428 1427 1426	Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. 2015, 5, 1500408 Improving the Electrochemical Performance of the Li4Ti5O12 Electrode in a Rechargeable Magnesium Battery by Lithium Magnesium Co-Intercalation. 2015, 127, 5849-5853 Electrospun Single-Phase Na1.2V3O8 Materials with Tunable Morphologies as Cathodes for Rechargeable Lithium-Ion Batteries. 2015, 2, 837-846 Fabrication of Fe-Doped LiCoO2 Sandwich-Like Nanocomposites as Excellent Performance Cathode Materials for Lithium-Ion Batteries. 2015, 21, 19104-11 Phase Diagram of the Li4GeS4li3PS4 Quasi-Binary System Containing the Superionic Conductor	321 26 10
1429 1428 1427 1426	Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. 2015, 5, 1500408 Improving the Electrochemical Performance of the Li4Ti5O12 Electrode in a Rechargeable Magnesium Battery by LithiumMagnesium Co-Intercalation. 2015, 127, 5849-5853 Electrospun Single-Phase Na1.2V3O8 Materials with Tunable Morphologies as Cathodes for Rechargeable Lithium-Ion Batteries. 2015, 2, 837-846 Fabrication of Fe-Doped LiCoO2 Sandwich-Like Nanocomposites as Excellent Performance Cathode Materials for Lithium-Ion Batteries. 2015, 21, 19104-11 Phase Diagram of the Li4GeS4Li3PS4 Quasi-Binary System Containing the Superionic Conductor Li10GeP2S12. 2015, 98, 3352-3360 Influence of management and system configuration on performances and lifetime of lithium-ion	321 26 10 18 50

1421 Chemical State Imaging of Li using Scanning Auger Electron Microscopy. **2015**, 58, 379-386

Superlattice CrystalsMimic, Flexible/Functional Ceramic Membranes: Beyond Polymeric Battery Separators. 2015 , 5, 1500954	39
Capacity Fade Analysis of the Lithium-Ion Power Battery Cycling Process Based on an Electrochemical-Thermal Coupling Model. 2015 , 3, 1250-1259	7
Synthesis and Ring-Opening Polymerization of Functional Silacyclobutane Derivatives and Their Application to Lithium Ion Batteries. 2015 , 349, 21-28	3
High-Performance Olivine for Lithium Batteries: Effects of Ni/Co Doping on the Properties of LiFeNi∉oPO4 Cathodes. 2015 , 25, 4032-4037	23
1416 In Situ Powder Diffraction Studies of Electrode Materials in Rechargeable Batteries. 2015 , 8, 2826-53	51
Synthesis, Spectroscopic Characterization, Crystal Structures, Energetics, and Thermal Stabilities of Li[AlX4] (X = Cl, Br): Investigation and Performance of Their Electrolyte Solutions. 2015 , 2015, 3128-3138	3
Effects of lithium on growth, maturation, reproduction and gene expression in the nematode Caenorhabditis elegans. 2015 , 35, 999-1006	10
Dielectric Relaxation Behavior of a Poly(ethylene carbonate)-Lithium Bis-(trifluoromethanesulfonyl) Imide Electrolyte. 2015 , 216, 1660-1665	31
High-Performance Polyoxometalate-Based Cathode Materials for Rechargeable Lithium-Ion Batteries. 2015 , 27, 4649-54	113
Improving the electrochemical performance of the li4 ti5 o12 electrode in a rechargeable magnesium battery by lithium-magnesium co-intercalation. 2015 , 54, 5757-61	139
On-Board State-of-Health Estimation at a Wide Ambient Temperature Range in Lithium-Ion Batteries. 2015 , 8, 8467-8481	5
Research on a Novel Power Inductor-Based Bidirectional Lossless Equalization Circuit for Series-Connected Battery Packs. 2015 , 8, 5555-5576	19
1408 A New Data-Stream-Mining-Based Battery Equalization Method. 2015 , 8, 6543-6565	7
Comparative Study of Surface Temperature Behavior of Commercial Li-Ion Pouch Cells of Different Chemistries and Capacities by Infrared Thermography. 2015 , 8, 8175-8192	60
A Real-Time Joint Estimator for Model Parameters and State of Charge of Lithium-Ion Batteries in Electric Vehicles. 2015 , 8, 8594-8612	16
High Temperature Stable Separator for Lithium Batteries Based on SiOland Hydroxypropyl Guar Gum. 2015 , 5, 632-45	23
Structural and Morphological Tuning of LiCoPOIMaterials Synthesized by Solvo-Thermal Methods for Li-Cell Applications. 2015 , 5, 2212-2230	18

1403	Simulation of the Impact of Si Shell Thickness on the Performance of Si-Coated Vertically Aligned Carbon Nanofiber as Li-Ion Battery Anode. 2015 , 5, 2268-2278	1
1402	Size Effect of Ordered Mesoporous Carbon Nanospheres for Anodes in Li-lon Battery. 2015 , 5, 2348-2358	17
1401	Employing Real Automotive Driving Data for Electrochemical Impedance Spectroscopy on Lithium-Ion Cells. 2015 , 4, 308-317	13
1400	Three-Dimensional Electrochemical Analysis of a Graphite/LiFePO4 Li-Ion Cell to Improve Its Durability. 2015 ,	5
1399	Nano-Workbench: A Combined Hollow AFM Cantilever and Robotic Manipulator. 2015 , 6, 600-610	4
1398	Electric Drives for Propulsion System of Transport Aircraft. 2015 ,	4
1397	High-performance nickel manganese ferrite/oxidized graphene composites as flexible and binder-free anodes for Li-ion batteries. 2015 , 5, 40018-40025	8
1396	One-step synthesis of Si@C nanoparticles by laser pyrolysis: high-capacity anode material for lithium-ion batteries. 2015 , 7, 6637-44	77
1395	Correlations between Electrochemical Data and Results from Post-Mortem Analysis of Aged Lithium-Ion Batteries. 2015 , 162, A1500-A1505	28
1394	Diffusion deformation theory for amorphous silicon anodes: The role of plastic deformation on electrochemical performance. 2015 , 67-68, 283-296	73
1393	Experimental study of a DC charging station for full electric and plug in hybrid vehicles. 2015 , 152, 131-142	66
1392	First-Principles Study on the Thermal Stability of LiNiO2 Materials Coated by Amorphous Al2O3 with Atomic Layer Thickness. 2015 , 7, 11599-603	33
1391	Synthesis of LiMnPO4/C with superior performance as Li-ion battery cathodes by a two-stage microwave solvothermal process. 2015 , 3, 13920-13925	21
1390	New Cr2Mo3O12-based anodes: morphology tuning and Li-storage properties. 2015 , 3, 15030-15038	11
1389	Comparative Study of Ether-Based Electrolytes for Application in Lithium-Sulfur Battery. 2015 , 7, 13859-65	76
1388	Fabrication of a novel sandwich-like composite separator with enhanced physical and electrochemical performances for lithium-ion battery. <i>Journal of Power Sources</i> , 2015 , 290, 53-60	29
1387	Radiation-crosslinked nanofiber membranes with well-designed coreBhell structure for high performance of gel polymer electrolytes. 2015 , 492, 77-87	37
1386	Electrochemical and thermal insertion of lithium and magnesium into Zr5Sn3. 2015 , 19, 2481-2490	6

1385	Li-ion battery shut-off at high temperature caused by polymer phase separation in responsive electrolytes. 2015 , 51, 5448-51	39
1384	HAXPES studies of solid materials for applications in energy and information technology using the HIKE facility at HZB-BESSY II. 2015 , 200, 40-48	6
1383	Thermo-electrochemical study on cathode materials for lithium ion cells. 2015 , 19, 2167-2175	3
1382	New methodology of electrochemical noise analysis and applications for commercial Li-ion batteries. 2015 , 19, 2803-2810	46
1381	Preparation and characterization of the porous solid polymer electrolyte of PAN/PVA by phase inversion. 2015 , 45, 809-820	16
1380	Synthesis temperature dependence of the structural and electrochemical properties of Mg2Si anodic materials prepared via a hydrogen-driven chemical reaction. 2015 , 21, 2439-2445	3
1379	Synthesis and characterization of lithium-salt complexes with difluoroalkoxyborates for application as lithium electrolytes. 2015 , 175, 104-112	2
1378	In-situ synthesis of reduced graphene oxide modified lithium vanadium phosphate for high-rate lithium-ion batteries via microwave irradiation. 2015 , 174, 26-32	22
1377	Novel approach to recover cobalt and lithium from spent lithium-ion battery using oxalic acid. 2015 , 295, 112-8	288
1376	A simple composite protective layer coating that enhances the cycling stability of lithium metal batteries. <i>Journal of Power Sources</i> , 2015 , 284, 103-108	182
1375	Electrospun polyacrylonitrile microfiber separators for ionic liquid electrolytes in Li-ion batteries. Journal of Power Sources, 2015 , 292, 1-6	40
1374	Battery parameters for hybrid electric vehicles. 2015 , 55-72	2
1373	Asynchronous stoichiometric response in lithium iron phosphate batteries. 2015 , 30, 417-423	6
1372	Artificial opal photonic crystals and inverse opal structures (Fundamentals and applications from optics to energy storage. 2015 , 3, 6109-6143	201
1371	High energy density amorphous silicon anodes for lithium ion batteries deposited by DC sputtering. Journal of Power Sources, 2015 , 293, 301-305	30
1370	High-performance silicon-based multicomponent battery anodes produced via synergistic coupling of multifunctional coating layers. 2015 , 8, 2075-2084	110
1369	One-step hydrothermal synthesis of three-dimensional porous graphene aerogels/sulfur nanocrystals for lithiumBulfur batteries. 2015 , 645, 509-516	41
1368	Operando Characterization of Intermediates Produced in a Lithium-Sulfur Battery. 2015 , 162, A1146-A1155	91

1367	Novel benzimidazole salts for lithium ion battery electrolytes: effects of substituents. 2015 , 17, 16462-8	6
1366	Modeling separator membranes physical characteristics for optimized lithium ion battery performance. 2015 , 278, 78-84	20
1365	V2O5 nanoflowers assembled by nanorods as cathode material for lithium-ion batteries. 2015 , 10, 686-688	5
1364	Snto nanoparticles encapsulated in grid-shell carbon spheres, applied as a high-performance anode material for lithium-ion batteries. 2015 , 5, 53586-53591	7
1363	Novel flexible MWCNTs@MoO2-C nanocable composites with excellent electrochemical performance for lithium ion battery anodes. 2015 , 2, 095502	3
1362	Feasibility Analysis of Recycling and Disposal of Spent Lithium-Ion Batteries in China. 2015 , 768, 622-626	5
1361	Laboratory Bench to Test ZEBRA Battery Plus Super-Capacitor Based Propulsion Systems for Urban Electric Transportation. 2015 , 75, 1956-1961	13
1360	EFFECT OF ELECTRODE DESIGN ON ELECTROCHEMICAL PERFORMANCE OF ALL-SOLID-STATE LITHIUM SECONDARY BATTERIES USING LITHIUM-SILICIDE ANODES. 2015 , 185, 242-249	7
1359	Surface modification and characterization of nanocrystalline LiNi0.5Co0.5VO4 with Dy2O3 by polymeric resin process. 2015 , 1, 100-104	
1358	A LiFePO4 battery management system for heavy-haul train electrically controlled pneumatic brake system application. 2015 ,	3
1358 1357		8
	system application. 2015 ,	
1357	system application. 2015, . 2015, Magnetism Versus LiFePO4 Battery State of Charge: A Feasibility Study for Magnetic-Based	8
1357 1356	system application. 2015, . 2015, Magnetism Versus LiFePO4 Battery\(\text{S}\) State of Charge: A Feasibility Study for Magnetic-Based Charge Monitoring. 2015, 64, 2959-2964 Lithium\(\text{B}\)ntimony alloys: Phase diagram, thermodynamic properties, electrochemical behavior in	8
1357 1356 1355	system application. 2015, . 2015, Magnetism Versus LiFePO4 Battery State of Charge: A Feasibility Study for Magnetic-Based Charge Monitoring. 2015, 64, 2959-2964 Lithium Intimony alloys: Phase diagram, thermodynamic properties, electrochemical behavior in molten and nonaqueous electrolytes, and use in lithium batteries. 2015, 88, 1737-1749 Extensive EIS characterization of commercially available lithium polymer battery cell for	8 7 10
1357 1356 1355 1354	. 2015, Magnetism Versus LiFePO4 Battery State of Charge: A Feasibility Study for Magnetic-Based Charge Monitoring. 2015, 64, 2959-2964 Lithium Intimony alloys: Phase diagram, thermodynamic properties, electrochemical behavior in molten and nonaqueous electrolytes, and use in lithium batteries. 2015, 88, 1737-1749 Extensive EIS characterization of commercially available lithium polymer battery cell for performance modelling. 2015,	8 7 10 4
1357 1356 1355 1354	. 2015, Magnetism Versus LiFePO4 Battery State of Charge: A Feasibility Study for Magnetic-Based Charge Monitoring. 2015, 64, 2959-2964 Lithium Intimony alloys: Phase diagram, thermodynamic properties, electrochemical behavior in molten and nonaqueous electrolytes, and use in lithium batteries. 2015, 88, 1737-1749 Extensive EIS characterization of commercially available lithium polymer battery cell for performance modelling. 2015, Thermodynamic properties and electrochemical studies of lithium-tin alloys. 2015, 88, 1087-1105 Facile synthesis of viologen and its reversible lithium storage property in organic lithium-ion	8 7 10 4 19

	Li4Ti5O12/graphene nanoribbons composite as anodes for lithium ion batteries. 2015 , 4, 643		7
1348	Surface Reactivity of a Carbonaceous Cathode in a Lithium Triflate/Ether Electrolyte-Based Li-O2 Cell. 2015 , 7, 21751-62		26
1347	Numerical Study of Composite Electrode's Particle Size Effect on the Electrochemical and Heat Generation of a Li-Ion Battery. 2015 , 6,		6
1346	Control of electrochemical properties of nickel-rich layered cathode materials for lithium ion batteries by variation of the manganese to cobalt ratio. <i>Journal of Power Sources</i> , 2015 , 275, 877-883	8.9	85
1345	Bacterial cellulose nanofibrous membrane as thermal stable separator for lithium-ion batteries. Journal of Power Sources, 2015 , 279, 21-27	8.9	105
1344	Carbon-Coated Anatase TiO2Nanotubes for Li- and Na-Ion Anodes. 2015 , 162, A3013-A3020		71
1343	Effects of Graphene Oxide Function Groups on SnO 2 /Graphene Nanocomposites for Lithium Storage Application. 2015 , 154, 338-344		33
1342	New type of gel polyelectrolytes based on selected methacrylates and their characteristics. Part I. Copolymers with (3-(trimethoxysilyl)propyl methacrylate). 2015 , 155, 183-195		3
1341	The transport and conductivity properties of the ionic liquid EMIMTCM. 2015, 201, 96-101		17
1340	Cost modeling of lithium-ion battery cells for automotive applications. 2015 , 3, 71-82		111
1340	Cost modeling of lithium-ion battery cells for automotive applications. 2015 , 3, 71-82 Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as high-performance cathode for Li-ion batteries. 2015 , 153, 523-530		111
	Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as		
1339	Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as high-performance cathode for Li-ion batteries. 2015 , 153, 523-530 Comparative life cycle assessment of laminated and vacuum vapor-deposited thin film solid-state	8.9	16
1339	Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as high-performance cathode for Li-ion batteries. 2015 , 153, 523-530 Comparative life cycle assessment of laminated and vacuum vapor-deposited thin film solid-state batteries. 2015 , 91, 158-169 Surface coating effect on thermal properties of delithiated lithium nickel manganese layer oxide.	8.9	16
1339 1338 1337	Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as high-performance cathode for Li-ion batteries. 2015, 153, 523-530 Comparative life cycle assessment of laminated and vacuum vapor-deposited thin film solid-state batteries. 2015, 91, 158-169 Surface coating effect on thermal properties of delithiated lithium nickel manganese layer oxide. Journal of Power Sources, 2015, 282, 511-519 Chemically modified morphologies of vanadium pentoxide as superior cathode material for lithium	8.9	16 31 10
1339 1338 1337 1336	Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as high-performance cathode for Li-ion batteries. 2015 , 153, 523-530 Comparative life cycle assessment of laminated and vacuum vapor-deposited thin film solid-state batteries. 2015 , 91, 158-169 Surface coating effect on thermal properties of delithiated lithium nickel manganese layer oxide. <i>Journal of Power Sources</i> , 2015 , 282, 511-519 Chemically modified morphologies of vanadium pentoxide as superior cathode material for lithium ion battery. 2015 , 632, 126-132 Nitrogen-doped Carbon-coated SnxOy (x = 1 and y = 0 and 2) Nanoparticles for Rechargeable Li-lon	8.9	16311016
1339 1338 1337 1336	Triple carbon coated LiFePO4 composite with hierarchical conductive architecture as high-performance cathode for Li-ion batteries. 2015, 153, 523-530 Comparative life cycle assessment of laminated and vacuum vapor-deposited thin film solid-state batteries. 2015, 91, 158-169 Surface coating effect on thermal properties of delithiated lithium nickel manganese layer oxide. Journal of Power Sources, 2015, 282, 511-519 Chemically modified morphologies of vanadium pentoxide as superior cathode material for lithium ion battery. 2015, 632, 126-132 Nitrogen-doped Carbon-coated SnxOy (x = 1 and y = 0 and 2) Nanoparticles for Rechargeable Li-Ion Batteries. 2015, 161, 269-278	8.9	16 31 10 16 21

1331	A new coating method for alleviating surface degradation of LiNi0.6Co0.2Mn0.2O2 cathode material: nanoscale surface treatment of primary particles. 2015 , 15, 2111-9		373
1330	A synchronous approach for facile production of Ge-carbon hybrid nanoparticles for high-performance lithium batteries. 2015 , 51, 3882-5		38
1329	Future generations of cathode materials: an automotive industry perspective. 2015 , 3, 6709-6732		538
1328	The combustion behavior of large scale lithium titanate battery. 2015 , 5, 7788		74
1327	A Bayesian approach for Li-Ion battery capacity fade modeling and cycles to failure prognostics. Journal of Power Sources, 2015 , 281, 173-184	9	70
1326	An in situ STM investigation of EMITFSI ionic liquid on Au(111) in the presence of lithium salt. 2015 , 60, 877-883		6
1325	First-principle study on lithium intercalated antimonides Ag3Sb and Mg3Sb2. 2015 , 21, 1351-1361		4
1324	Effect of rigidity of porous structure on electrochemical behavior of pristine Li4Ti5O12 microspheres. 2015 , 156, 216-222		14
1323	Foamed mesoporous carbon/silicon composite nanofiber anode for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 281, 285-292	9	70
1322	Polymer composites and blends for battery separators: State of the art, challenges and future trends. <i>Journal of Power Sources</i> , 2015 , 281, 378-398	9	185
1321	Electrodeposition and stripping behavior of a zinc/polystyrene composite electrode in an ionic liquid. 2015 , 19, 1453-1461		9
1320	Carbide-derived carbon/sulfur composite cathode for multi-layer separator assembled Li-S battery. 2015 , 32, 867-873		11
1319	Improved electrochemical and thermal properties of nickel rich LiNi0.6Co0.2Mn0.2O2 cathode materials by SiO2 coating. <i>Journal of Power Sources</i> , 2015 , 282, 45-50	9	216
1318	Carbon-coated Li 4 Ti 5 O 12 nanowires showing high rate capability as an anode material for rechargeable sodium batteries. 2015 , 12, 725-734		102
1317	Flexible one-dimensional carbon Belenium composite nanofibers with superior electrochemical performance for LiBe/NaBe batteries. <i>Journal of Power Sources</i> , 2015 , 281, 461-469	9	99
1316	Succinic acid-based leaching system: A sustainable process for recovery of valuable metals from spent Li-ion batteries. <i>Journal of Power Sources</i> , 2015 , 282, 544-551	9	239
1315	Fast and Accurate Measurement of Entropy Profiles of Commercial Lithium-Ion Cells. 2015 , 177, 270-276		48
1314	Electrochemical properties of a poly(ethylene carbonate)-LiTFSI electrolyte containing a pyrrolidinium-based ionic liquid. 2015 , 21, 895-900		43

1313	Overcharge-induced capacity fading analysis for large format lithium-ion batteries with Li Ni1/3Co1/3Mn1/3O2+ Li Mn2O4 composite cathode. <i>Journal of Power Sources</i> , 2015 , 279, 626-635	8.9	129
1312	A silver-nanoparticle-catalyzed graphite composite for electrochemical energy storage. <i>Journal of Power Sources</i> , 2015 , 275, 688-693	8.9	13
1311	Direct growth of FePO4/reduced graphene oxide nanosheet composites for the sodium-ion battery. 2015 , 3, 5501-5508		36
1310	Synthesis of Polymer Electrolytes Based on Poly(ethylene oxide) and an Anion-Stabilizing Hard Polymer for Enhancing Conductivity and Cation Transport. 2015 , 4, 225-230		51
1309	Sustainable, heat-resistant and flame-retardant cellulose-based composite separator for high-performance lithium ion battery. 2014 , 4, 3935		173
1308	A study on the impact of lithium-ion cell relaxation on electrochemical impedance spectroscopy. Journal of Power Sources, 2015 , 280, 74-80	8.9	130
1307	A dendrite-suppressing composite ion conductor from aramid nanofibres. 2015 , 6, 6152		225
1306	Sodium ion storage properties of WSEdecorated three-dimensional reduced graphene oxide microspheres. 2015 , 7, 3965-70		119
1305	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage. 2015 , 213-289		4
1304	Accurate and versatile simulation of transient voltage profile of lithium-ion secondary battery employing internal equivalent electric circuit. 2015 , 143, 200-210		21
1303	Multifunctional AlPO4 coating for improving electrochemical properties of low-cost Li[Li0.2Fe0.1Ni0.15Mn0.55]O2 cathode materials for lithium-ion batteries. 2015 , 7, 3773-81		160
1302	Electronic structure and electrode properties of tetracyanoquinodimethane (TCNQ): a surface science investigation of lithium intercalation into TCNQ. 2015 , 17, 6588-96		35
1301	Solvent responsive silica composite nanofiltration membrane with controlled pores and improved ion selectivity for vanadium flow battery application. <i>Journal of Power Sources</i> , 2015 , 274, 1126-1134	8.9	33
1300	Self-assembly synthesis and electrochemical performance of Li1.5Mn0.75Ni0.15Co0.10O2+I microspheres with multilayer shells. 2015 , 3, 3120-3129		33
1299	Graphene-encapsulated Li2MnTi3O8 nanoparticles as a high rate anode material for lithium-ion batteries. 2015 , 155, 272-278		23
1298	Recent progress in theoretical and computational investigations of Li-ion battery materials and electrolytes. 2015 , 17, 4799-844		190
1297	Metallic tin-based nanoparticles synthesis by laser pyrolysis: Parametric studies focused on the decreasing of the crystallite size. 2015 , 336, 290-296		5
1296	Tellurium@Ordered Macroporous Carbon Composite and Free-Standing Tellurium Nanowire Mat as Cathode Materials for Rechargeable LithiumIIellurium Batteries. 2015 , 5, 1401999		65

1295	Laser cutting of lithium iron phosphate battery electrodes: Characterization of process efficiency and quality. 2015 , 65, 164-174	31	
1294	Evaluation of \$hbox{LiFePO}_{4}\$ Batteries for Electric Vehicle Applications. 2015 , 51, 1855-1863	46	
1293	Effect of Anions on Lithium Ion Conduction in Poly(ethylene carbonate)-based Polymer Electrolytes. 2015 , 162, A3133-A3136	83	
1292	Dual-Carbon Network for the Effective Transport of Charged Species in a LiFePO4 Cathode for Lithium-Ion Batteries. 2015 , 3, 63-69	9	
1291	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage:: current cell materials and components. 2015 , 125-211	7	
1290	Discrimination of degradation processes in lithium-ion cells based on the sensitivity of aging indicators towards capacity loss. <i>Journal of Power Sources</i> , 2015 , 283, 494-504	17	
1289	Electronic Waste. 2015 ,	23	
1288	Batteries. 2015 , 129-158		
1287	Adsorption of insoluble polysulfides Li2S(x) (x = 1, 2) on Li2S surfaces. 2015 , 17, 9032-9	46	
1286	Expandable-graphite-derived graphene for next-generation battery chemistries. <i>Journal of Power Sources</i> , 2015 , 284, 60-67) 21	
1285	The influence of graphene/carbon mass ratio on microstructure and electrochemical behavior in the grapheneBnO2Barbon composite as anodes for Li-ion batteries. 2015 , 636, 202-210	17	
1284	Permanent gas analysis using gas chromatography with vacuum ultraviolet detection. 2015 , 1388, 244-50	50	
1283	Polysulfide-containing Glyme-based Electrolytes for Lithium Sulfur Battery. 2015 , 27, 4604-4611	91	
1282	Recent advances on multi-component hybrid nanostructures for electrochemical capacitors. <i>Journal of Power Sources</i> , 2015 , 294, 31-50	94	
1281	The synthesis and electrochemical characterization of bis(fluorosulfonyl)imide-based protic ionic liquids. 2015 , 51, 3656-9	25	
1280	Composite of graphite/phosphorus as anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 289, 100-104	67	
1279	[001] preferentially-oriented 2D tungsten disulfide nanosheets as anode materials for superior lithium storage. 2015 , 3, 17811-17819	50	
1278	From graphite to porous graphene-like nanosheets for high rate lithium-ion batteries. 2015 , 8, 2998-3010	64	

1277	Fe@Ag nanoparticles decorated reduced graphene oxide as ultrahigh capacity anode material for lithium-ion battery. 2015 , 21, 3185-3192		59	
1276	Synthesis and lithium storage performance of Co2SiO4 nanoparticles. 2015 , 5, 70661-70667		15	
1275	A long-life lithium ion sulfur battery exploiting high performance electrodes. 2015 , 51, 14540-2		34	
1274	In situ studies of lithium-ion diffusion in a lithium-rich thin film cathode by scanning probe microscopy techniques. 2015 , 17, 22235-42		37	
1273	Best Practices for Reporting on Energy Storage. 2015 , 7, 16131-2		2	
1272	Fabrication of graphene nanoplatelets-supported SiOx-disordered carbon composite and its application in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 293, 976-982	8.9	27	
1271	On the role of saturation in modeling ionic transport in the electrolyte of (Lithium ion) batteries. Journal of Power Sources, 2015 , 294, 696-710	8.9	12	
1270	Li[Li0.2Ni 0.16Mn 0.56Co 0.08]O 2 Nanoparticle/Carbon Composite Using Polydopamine Binding Agent for Enhanced Electrochemical Performance. 2015 , 10, 986		8	
1269	Monodisperse MPd (M: Co, Ni, Cu) alloy nanoparticles supported on reduced graphene oxide as cathode catalysts for the lithium-air battery. 2015 , 40, 10876-10882		30	
1268	3D simulation on the internal distributed properties of lithium-ion battery with planar tabbed configuration. <i>Journal of Power Sources</i> , 2015 , 293, 993-1005	8.9	63	
1267	A new lithium-ion battery with LiNi0.80Co0.15Al0.05O2 cathode and lithium pre-doping hard carbon anode. 2015 , 160, 250-254		8	
1266	3D Si/C particulate nanocomposites internally wired with graphene networks for high energy and stable batteries. 2015 , 3, 18684-18695		36	
1265	Carbon nanotube@layered nickel silicate coaxial nanocables as excellent anode materials for lithium and sodium storage. 2015 , 3, 16551-16559		49	
1264	Microstructurally Composed Nanoparticle Assemblies as Electroactive Materials for Lithium-Ion Battery Electrodes. 2015 , 353-391			
1263	Perspectives in Lithium Batteries. 2015 , 191-232		3	
1262	Transforming anatase TiO2 nanorods into ultrafine nanoparticles for advanced electrochemical performance. <i>Journal of Power Sources</i> , 2015 , 294, 406-413	8.9	10	
1261	Fast ultrasound-assisted synthesis of Li2MnSiO4 nanoparticles for a lithium-ion battery. <i>Journal of Power Sources</i> , 2015 , 294, 522-529	8.9	12	
1260	Discharge capacity estimation for Li-ion batteries based on particle filter under multi-operating conditions. 2015 , 86, 638-648		25	

1259	Improved high voltage electrochemical performance of Li2ZrO3-coated LiNi0.5Co0.2Mn0.3O2 cathode material. 2015 , 647, 612-619		101
1258	Surface micro-structuring of intercalation cathode materials for lithium-ion batteries: a study of laser-assisted cone formation. 2015 ,		2
1257	Electrochemical Model for Ionic Liquid Electrolytes in Lithium Batteries. 2015 , 176, 301-310		16
1256	Oxygen deficient, carbon coated self-organized TiO2 nanotubes as anode material for Li-ion intercalation. 2015 , 3, 16469-16477		46
1255	Ultrafast synthesis of MoS2 or WS2-reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 295, 228-234	8.9	66
1254	A study of the open circuit voltage characterization technique and hysteresis assessment of lithium-ion cells. <i>Journal of Power Sources</i> , 2015 , 295, 99-107	8.9	87
1253	Temperature-responsive microspheres-coated separator for thermal shutdown protection of lithium ion batteries. 2015 , 5, 172-176		42
1252	Template-assisted formation of porous vanadium oxide as high performance cathode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 295, 254-258	8.9	21
1251	SiO2@NiO coreBhell nanocomposites as high performance anode materials for lithium-ion batteries. 2015 , 5, 63012-63016		16
1250	Three-Dimensional Cu2ZnSnS4 Films with Modified Surface for Thin-Film Lithium-Ion Batteries. 2015 , 7, 17311-7		25
1249	Development of SnO2/Multiwalled Carbon Nanotube Paper as Free Standing Anode for Lithium Ion Batteries (LIB). 2015 , 176, 735-742		31
1248	Thermal transformations of urea in ethylene glycol: III. Transformation of 2-hydroxyethyl carbamate into ethylene carbonate. 2015 , 51, 836-841		
1247	Effect of Silica and Tin Oxide Nanoparticles on Properties of Nanofibrous Electrospun Separators. 2015 , 162, A915-A920		26
1246	Novel configuration of poly(vinylidenedifluoride)-based gel polymer electrolyte for application in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 294, 180-186	8.9	83
1245	Recycling lithium batteries. 2015 , 503-516		5
1244	Organic Cathode Materials for Rechargeable Batteries. 2015 , 637-671		7
1243	A Lithium-Ion Battery based on an Ionic Liquid Electrolyte, Tintarbon Nanostructured Anode, and Li2OIrO2-Coated Li[Ni0.8Co0.15Al0.05]O2 Cathode. 2015 , 3, 632-637		26
1242	Preparation and Electrochemical Properties Research of Vanadium-Sol Modified LiFePO4 Cathode Material for Lithium Ion Batteries. 2015 , 814, 25-30		

1241	Electrification of roads: Opportunities and challenges. 2015 , 150, 109-119		73
1240	On the Way Toward Understanding Solution Chemistry of Lithium Polysulfides for High Energy Liß Redox Flow Batteries. 2015 , 5, 1500113		103
1239	Effects of 1-propylphosphonic acid cyclic anhydride as an electrolyte additive on the high voltage cycling performance of graphite/LiNi0.5Co0.2Mn0.3O2 battery. 2015 , 166, 190-196		28
1238	Functional lithium borate salts and their potential application in high performance lithium batteries. 2015 , 292, 56-73		67
1237	Copolymers of trimethylene carbonate and Eaprolactone as electrolytes for lithium-ion batteries. 2015 , 63, 91-98		76
1236	Single-ion diblock copolymers for solid-state polymer electrolytes. 2015 , 68, 344-352		53
1235	Si clusters/defective graphene composites as Li-ion batteries anode materials: A density functional study. 2015 , 345, 337-343		37
1234	Optimal parametrization of electrodynamical battery model using model selection criteria. <i>Journal of Power Sources</i> , 2015 , 285, 119-130	8.9	4
1233	Characterization and electrochemical performance of lithium-active titanium dioxide inlaid LiNi0.5Co0.2Mn0.3O2 material prepared by lithium residue-assisted method. 2015 , 638, 77-82		49
1232	Monodisperse CoFe 2 O 4 nanoparticles supported on Vulcan XC-72: High performance electrode materials for lithium-air and lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 288, 36-41	8.9	34
1231	Free-standing molybdenum disulfide/graphene composite paper as a binder- and carbon-free anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 288, 76-81	8.9	50
1230	A simple, low-cost and eco-friendly approach to synthesize single-crystalline LiMn2O4 nanorods with high electrochemical performance for lithium-ion batteries. 2015 , 166, 124-133		62
1229	Improved cyclic stability of LiNi0.8Co0.1Mn0.1O2 via Ti substitution with a cut-off potential of 4.5 V. 2015 , 41, 7133-7139		87
1228	X-ray microtomography characterization of Sn particle evolution during lithiation/delithiation in lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 285, 205-209	8.9	19
1227	Enhanced low temperature electrochemical performances of LiFePO 4 /C by surface modification with Ti 3 SiC 2. <i>Journal of Power Sources</i> , 2015 , 288, 136-144	8.9	33
1226	Development of plasma-treated polypropylene nonwoven-based composites for high-performance lithium-ion battery separators. 2015 , 167, 396-403		53
1225	Governing equations for a two-scale analysis of Li-ion battery cells. 2015 , 59, 90-109		29
1224	Computational comparison of oxidation stability: Solvent/salt monomers vs solventBolvent/salt pairs. <i>Journal of Power Sources</i> , 2015 , 288, 393-400	8.9	17

1223	Electrochemical lithium storage of Li4Ti5O12/NiO nanocomposites for high-performance lithium-ion battery anodes. 2015 , 19, 1859-1866		9
1222	7Li nuclear magnetic resonance studies of dynamics in a ternary gel polymer electrolyte based on polymeric ionic liquids. 2015 , 175, 35-41		20
1221	Large-scale virtual high-throughput screening for the identification of new battery electrolyte solvents: computing infrastructure and collective properties. 2015 , 17, 3394-401		50
1220	Lithium iron phosphate battery electrode integrity following high speed pulsed laser cutting. 2015 , 119, 431-435		6
1219	Lithium-doped PEOE prospective solid electrolyte with high ionic conductivity, developed using n-Butyllithium in hexane as dopant. 2015 , 21, 2185-2191		11
1218	MnO/C nanocomposite prepared by one-pot hydrothermal reaction for high performance lithium-ion battery anodes. 2015 , 32, 178-183		21
1217	Understanding the effect of a fluorinated ether on the performance of lithium-sulfur batteries. 2015 , 7, 9169-77		107
1216	Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries. 2015 , 6, 6865		160
1215	Encapsulating sulfur into a hybrid porous carbon/CNT substrate as a cathode for lithiumBulfur batteries. 2015 , 3, 6827-6834		68
1214	The artificial beetle, or a brief manifesto for engineered biomimicry. 2015,		
1213	Stabilization of silicon nanoparticles in graphene aerogel framework for lithium ion storage. 2015 , 5, 30624-30630		30
1212	Sandwich-like porous TiO2/reduced graphene oxide (rGO) for high-performance lithium-ion batteries. 2015 , 3, 8701-8705		36
1211	Solgel synthesis of Li1.5Al0.5Ge1.5(PO4)3 solid electrolyte. 2015, 41, 8562-8567		37
1210	Integrated fast assembly of free-standing lithium titanate/carbon nanotube/cellulose nanofiber hybrid network film as flexible paper-electrode for lithium-ion batteries. 2015 , 7, 10695-701		71
1209	Poly(dimethylsiloxane) hybrid gel polymer electrolytes of a porous structure for lithium ion battery. 2015 , 489, 36-42		49
1208	Electrochemical characterization of electrospun nanocomposite polymer blend electrolyte fibrous membrane for lithium battery. 2015 , 119, 5299-308		22
	Heat generation rate measurement in a Li-ion cell at large C-rates through temperature and heat		
1207	flux measurements. <i>Journal of Power Sources</i> , 2015 , 285, 266-273	8.9	105

1205	On the complex ageing characteristics of high-power LiFePO4/graphite battery cells cycled with high charge and discharge currents. <i>Journal of Power Sources</i> , 2015 , 286, 475-487	96
1204	Conducting polymers and their inorganic composites for advanced Li-ion batteries: a review. 2015 , 5, 42109-42130	121
1203	High-Capacity, High-Rate BiBb Alloy Anodes for Lithium-Ion and Sodium-Ion Batteries. 2015 , 27, 3096-3101	221
1202	Perspectives of energy materials grown by APCVD. 2015 , 140, 1-8	30
1201	Ab initio study of sodium intercalation into disordered carbon. 2015 , 3, 9763-9768	162
1200	Anodes for Rechargeable Lithium-Sulfur Batteries. 2015 , 5, 1402273	362
1199	Materials and technologies for rechargeable lithium Bulfur batteries. 2015, 117-147	6
1198	Tunable and robust phosphite-derived surface film to protect lithium-rich cathodes in lithium-ion batteries. 2015 , 7, 8319-29	101
1197	A QuaternaryPoly(ethylene carbonate)-Lithium Bis(trifluoromethanesulfonyl)imide-Ionic Liquid-Silica Fiber Composite Polymer Electrolyte for Lithium Batteries. 2015 , 175, 134-140	64
1196	Lithium-based batteries in tactical military applications: A review. 2015 ,	O
1195	3D heterostructure Fe3O4/Ni/C nanoplate arrays on Ni foam as binder-free anode for high performance lithium-ion battery. 2015 , 182, 398-405	21
1194	Heat transfer enhancement in a lithium-ion cell through improved material-level thermal transport. Journal of Power Sources, 2015 , 300, 123-131	49
1193	Preparation and Electrochemical Performance of V2O3-C Dual-Layer Coated LiFePO4 by Carbothermic Reduction of V2O5. 2015 , 28, 331-337	2
1192	Scaling up NanolLi4Ti5O12for High-Power Lithium-Ion Anodes Using Large Scale Flame Spray Pyrolysis. 2015 , 162, A2331-A2338	28
1191	Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. 2015 , 182, 500-506	11
1190	Ionic Conductivity, Self-Assembly, and Viscoelasticity in Poly(styrene-b-ethylene oxide) Electrolytes Doped with LiTf. 2015 , 48, 7164-7171	28
1189	A review of nanofibrous structures in lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 300, 199-2158.9	86
1188	Beyond Li-ion: electrode materials for sodium- and magnesium-ion batteries. 2015 , 58, 715-766	203

1187	Single-ion Polyelectrolyte/ Mesoporous Hollow-Silica Spheres, Composite Electrolyte Membranes for Lithium-ion Batteries. 2015 , 182, 297-304		17
1186	Structural and Electrochemical Study of Hierarchical LiNi(1/3)Co(1/3)Mn(1/3)O2 Cathode Material for Lithium-Ion Batteries. 2015 , 7, 21939-47		81
1185	A high-capacity Li[Ni0.8Co0.06Mn0.14]O2 positive electrode with a dual concentration gradient for next-generation lithium-ion batteries. 2015 , 3, 22183-22190		74
1184	Free-standing and binder-free highly N-doped carbon/sulfur cathodes with tailorable loading for high-areal-capacity lithiumBulfur batteries. 2015 , 3, 20482-20486		45
1183	Amendment of the Li-Bi Phase Diagram Crystal and Electronic Structure of Li2Bi. 2015 , 36, 544-553		9
1182	Polyethylene glycol dimethyl ether (PEGDME)-based electrolyte for lithium metal battery. <i>Journal of Power Sources</i> , 2015 , 299, 460-464	8.9	33
1181	Simulation and Measurement of Local Potentials of Modified Commercial Cylindrical Cells. 2015 , 162, A2707-A2719		36
1180	Suppression of Self-Discharge by a LiPF6/Methyl Difluoroacetate Electrolyte in Li/CuCl2Batteries. 2015 , 162, A2747-A2752		5
1179	Effect of the iron doping in LiCoPO4 cathode materials for lithium cells. 2015 , 185, 17-27		33
1178	Polymer Electrolytes. 2015 , 523-589		2
1177	Aging of Cations of Ionic Liquids Monitored by Ion Chromatography hyphenated to an Electrospray Ionization Mass Spectrometer. 2015 , 176, 1143-1152		21
1177			21 58
	Ionization Mass Spectrometer. 2015 , 176, 1143-1152 Direct Synthesis of Carbon-Doped TiO2-Bronze Nanowires as Anode Materials for High		
1176	Direct Synthesis of Carbon-Doped TiO2-Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. 2015, 7, 25139-46 Charging/Discharging Nanomorphology Asymmetry and Rate-Dependent Capacity Degradation in		58
1176 1175	Direct Synthesis of Carbon-Doped TiO2-Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. 2015, 7, 25139-46 Charging/Discharging Nanomorphology Asymmetry and Rate-Dependent Capacity Degradation in Li-Oxygen Battery. 2015, 15, 8260-5 Magnetism in olivine-type LiCo(1-x)Fe(x)PO4 cathode materials: bridging theory and experiment.		58 81
1176 1175 1174	Direct Synthesis of Carbon-Doped TiO2-Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. 2015, 7, 25139-46 Charging/Discharging Nanomorphology Asymmetry and Rate-Dependent Capacity Degradation in Li-Oxygen Battery. 2015, 15, 8260-5 Magnetism in olivine-type LiCo(1-x)Fe(x)PO4 cathode materials: bridging theory and experiment. 2015, 17, 31202-15	8.9	58 81 13
1176 1175 1174 1173	Direct Synthesis of Carbon-Doped TiO2-Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. 2015, 7, 25139-46 Charging/Discharging Nanomorphology Asymmetry and Rate-Dependent Capacity Degradation in Li-Oxygen Battery. 2015, 15, 8260-5 Magnetism in olivine-type LiCo(1-x)Fe(x)PO4 cathode materials: bridging theory and experiment. 2015, 17, 31202-15 A high-rate and long cycle life solid-state lithiumBir battery. 2015, 8, 3745-3754 High-rate lithiumBulfur batteries enabled by hierarchical porous carbons synthesized via ice	8.9	58 81 13

1169	Economic analysis of CNT lithium-ion battery manufacturing. 2015 , 2, 463-476	10
1168	Two phosphonium ionic liquids with high Li(+) transport number. 2015 , 17, 23041-51	34
1167	Room-Temperature Molten Salts: Protic Ionic Liquids and Deep Eutectic Solvents as Media for Electrochemical Application. 2015 , 217-252	5
1166	Microwave-assisted rapid synthesis of mesoporous nanostructured ZnCo2O4 anode materials for high-performance lithium-ion batteries. 2015 , 3, 24303-24308	30
1165	3D Vanadium Oxide Inverse Opal Growth by Electrodeposition. 2015 , 162, D605-D612	25
1164	ReviewAdvances in Anode and Electrolyte Materials for the Progress of Lithium-Ion and beyond Lithium-Ion Batteries. 2015 , 162, A2582-A2588	89
1163	Effect of the degree of porosity on the performance of poly(vinylidene fluoride-trifluoroethylene)/poly(ethylene oxide) blend membranes for lithium-ion battery separators. 2015 , 280, 1-9	24
1162	Improvement in hydrophobicity of olivine lithium manganese iron phosphate cathodes by SiF4 treatment for lithium-ion batteries. 2015 , 281, 82-88	3
1161	Analysis of DCDC power supply systems for pulsed loads from green electronics perspective. 2015 , 8, 957-966	6
1160	Carbon nanofiber-supported B2O3BnOx glasses as anode materials for high-performance lithium-ion batteries. 2015 , 5, 89099-89104	7
1159	Development of a method for direct elemental analysis of lithium ion battery degradation products by means of total reflection X-ray fluorescence. 2015 , 112, 34-39	39
1158	Recycling of lithium-ion batteries: a novel method to separate coating and foil of electrodes. 2015 , 108, 301-311	162
1157	Enhanced closed loop State of Charge estimator for lithium-ion batteries based on Extended Kalman Filter. 2015 , 155, 834-845	69
1156	Interaction of ionic liquids with noble metal surfaces: structure formation and stability of [OMIM][TFSA] and [EMIM][TFSA] on Au(111) and Ag(111). 2015 , 17, 23816-32	37
1155	A better understanding of the capacity fading mechanisms of Li3V2(PO4)3. 2015 , 5, 71684-71691	20
1154	Thermally-responsive, nonflammable phosphonium ionic liquid electrolytes for lithium metal batteries: operating at 100 degrees celsius. 2015 , 6, 6601-6606	28
1153	Electrochemistry in Ionic Liquids. 2015 ,	6
1152	Core-sheath structured porous carbon nanofiber composite anode material derived from bacterial cellulose/polypyrrole as an anode for sodium-ion batteries. 2015 , 95, 552-559	78

1151	Facile longitudinal unzipping of carbon nanotubes to graphene nanoribbons and their effects on LiMn2O4 cathodes in rechargeable lithium-ion batteries. 2015 , 100, 11-18	26
1150	Performance analysis and SOH (state of health) evaluation of lithium polymer batteries through electrochemical impedance spectroscopy. 2015 , 89, 678-686	147
1149	High power organic cathodes using thin films of electropolymerized benzidine polymers. 2015 , 51, 14674-7	10
1148	Analytical Solution to the Impedance of Electrode/Electrolyte Interface in Lithium-Ion Batteries. 2015 , 162, A7037-A7048	24
1147	Electrode nanomaterials for lithium-ion batteries. 2015 , 84, 826-852	73
1146	Adaptive approach for on-board impedance parameters and voltage estimation of lithium-ion batteries in electric vehicles. <i>Journal of Power Sources</i> , 2015 , 299, 176-188	40
1145	Phase formation in the ternary system LiBit. 2015, 653, 474-479	5
1144	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. 2015 , 115, 9869-921	631
1143	Elastomers uploaded electrospun nanofibrous membrane as solid state polymer electrolytes for lithium-ion batteries. 2015 , 5, 82960-82967	1
1142	Effect of Microstructure and Morphology of Electrospun Ultra-Small Carbon Nanofibers on Anode Performances for Lithium Ion Batteries. 2015 , 162, A1085-A1093	28
1141	Degradable photopolymerized thiol-based solid polymer electrolytes towards greener Li-ion batteries. 2015 , 75, 64-72	9
1140	Enhanced stability of SnSb/graphene anode through alternative binder and electrolyte additive for lithium ion batteries application. <i>Journal of Power Sources</i> , 2015 , 294, 248-253	35
1139	Fluorinated Carbamates as Suitable Solvents for LiTFSI-Based Lithium-Ion Electrolytes: Physicochemical Properties and Electrochemical Characterization. 2015 , 119, 22404-22414	19
1138	Ionic liquid assisted solid-state synthesis of lithium iron oxide nanoparticles for rechargeable lithium ion batteries. 2015 , 280, 37-43	6
1137	Porous Silicon Nanotube Arrays as Anode Material for Li-Ion Batteries. 2015 , 7, 20495-8	73
1136	Silicon/Carbon Nano-Composite Based Anodes for Advanced Lithium-Ion Batteries. 2015 , 66, 29-36	
1135	Preparation and characterization of a Lithium-ion battery separator from cellulose nanofibers. 2015 , 1, e00032	41
1134	Improving the electrochemical properties of LiNi(0.5)Co(0.2)Mn(0.3)O2 at 4.6 V cutoff potential by surface coating with Li2TiO3 for lithium-ion batteries. 2015 , 17, 32033-43	69

1133	Tin Disulfide Nanoplates on Graphene Nanoribbons for Full Lithium Ion Batteries. 2015 , 7, 26549-56	39
1132	A graphene/nitrogen-doped carbon nanofiber composite as an anode material for sodium-ion batteries. 2015 , 5, 104822-104828	19
1131	Optimization of Charging Strategy by Prevention of Lithium Deposition on Anodes in high-energy Lithium-ion Batteries Œlectrochemical Experiments. 2015 , 178, 525-532	108
1130	Electrodeposited Structurally Stable V2O5 Inverse Opal Networks as High Performance Thin Film Lithium Batteries. 2015 , 7, 27006-15	66
1129	Effect of Ionic Liquid Anion Type in the Performance of Solid Polymer Electrolytes Based on Poly(Vinylidene fluoride-trifluoroethylene). 2015 , 27, 457-464	23
1128	Modeling of steady-state and transient thermal performance of a Li-ion cell with an axial fluidic channel for cooling. 2015 , 39, 573-584	12
1127	Electrochemical stability of optimized Si/C composites anode for lithium-ion batteries. 2015, 21, 579-585	17
1126	. 2015 , 51, 498-508	38
1125	Mg doping and zirconium oxyfluoride coating co-modification to enhance the high-voltage performance of LiCoO2 for lithium ion battery. 2015 , 621, 212-219	35
1124	Pure inorganic separator for lithium ion batteries. 2015 , 7, 738-42	76
1123	ReaxFF molecular dynamics simulations on lithiated sulfur cathode materials. 2015, 17, 3383-93	109
1122	Composite-porous polymer membrane with reduced crystalline for lithiumIbn battery via non-solvent evaporate method. 2015 , 21, 593-599	13
1121	Phase transitions in a LiMn2O4 nanowire battery observed by operando electron microscopy. 2015 , 9, 626-32	41
1120	A new tetragonal structure type for Li2B2C. 2015 , 71, 39-43	4
1119	Preparation of Ge nanotube arrays from an ionic liquid for lithium ion battery anodes with improved cycling stability. 2015 , 51, 2064-7	60
1118	Sea Urchin Shaped EMnO2/RuO2Mixed Oxides Nanostructure as Promising Electrocatalyst for Lithium Dxygen Battery. 2015 , 162, A300-A307	26
1117	Sulfur@metal cotton with superior cycling stability as cathode materials for rechargeable lithiumBulfur batteries. 2015 , 738, 184-187	30

1115	Lithium ion rechargeable batteries: State of the art and future needs of microscopic theoretical models and simulations. 2015 , 739, 97-110	55
1114	Understanding Lithium Inventory Loss and Sudden Performance Fade in Cylindrical Cells during Cycling with Deep-Discharge Steps. 2015 , 119, 896-906	87
1113	The role of graphene for electrochemical energy storage. 2015 , 14, 271-9	1882
1112	Nanoscale spinel LiFeTiO4 for intercalation pseudocapacitive Li(+) storage. 2015 , 17, 1482-8	30
1111	An aqueous rechargeable sodium ion battery based on a NaMnO2NaTi2(PO4)3 hybrid system for stationary energy storage. 2015 , 3, 1400-1404	150
1110	Effects of plasticizer and nanofiller on the dielectric dispersion and relaxation behaviour of polymer blend based solid polymer electrolytes. 2015 , 15, 135-143	63
1109	The effect of samaria doped ceria coating on the performance of Li1.2Ni0.13Co0.13Mn0.54O2 cathode material for lithium-ion battery. 2015 , 153, 484-491	28
1108	Fundamental degradation mechanisms of layered oxide Li-ion battery cathode materials: Methodology, insights and novel approaches. 2015 , 192, 3-25	287
1107	Characterization of mixed titaniumBiobium oxide Ti2Nb10O29 annealed in vacuum as anode material for lithium-ion battery. <i>Journal of Power Sources</i> , 2015 , 276, 113-119	91
1106	Nanostructured anode materials for lithium ion batteries. 2015 , 3, 2454-2484	574
1105	Thiophene derivatives as novel functional additives for high-voltage LiCoO2 operations in lithium ion batteries. 2015 , 151, 429-436	43
1104	Synthesis of nickel doped anatase titanate as high performance anode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 276, 39-45	41
1103	Dendrite-separator interactions in lithium-based batteries. <i>Journal of Power Sources</i> , 2015 , 275, 912-9218.9	103
1102	Fluorinated Electrolytes for Li-S Battery: Suppressing the Self-Discharge with an Electrolyte Containing Fluoroether Solvent. 2015 , 162, A64-A68	74
1101	A hydrolysis-hydrothermal route for the synthesis of ultrathin LiAlO2-inlaid LiNi0.5Co0.2Mn0.3O2 as a high-performance cathode material for lithium ion batteries. 2015 , 3, 894-904	251
1100	A method for state-of-charge estimation of Li-ion batteries based on multi-model switching strategy. 2015 , 137, 427-434	81
1099	Advances in spinel Li4Ti5O12 anode materials for lithium-ion batteries. 2015 , 39, 38-63	160
1098	Solution processible hyperbranched inverse-vulcanized polymers as new cathode materials in LiB batteries. 2015 , 6, 973-982	45

1097	Titanium Silicide Coated Porous Silicon Nanospheres as Anode Materials for Lithium Ion Batteries. 2015 , 151, 256-262		42
1096	Lithium Bulfur batteries: from liquid to solid cells. 2015 , 3, 936-958		300
1095	Stable Silicon Anodes for Lithium-Ion Batteries Using Mesoporous Metallurgical Silicon. 2015 , 5, 1401556	5	61
1094	Direct Measurement of Polysulfide Shuttle Current: A Window into Understanding the Performance of Lithium-Sulfur Cells. 2015 , 162, A1-A7		184
1093	Investigation into the role of silica in lithium polysulfide adsorption for lithium sulfur battery. 2015 , 69, 29-35		11
1092	A Polyionic, Large-Format Energy Storage Device Using an Aqueous Electrolyte and Thick-Format Composite NaTi2(PO4)3/Activated Carbon Negative Electrodes. 2015 , 3, 20-31		45
1091	Improving the cycling stability of LiCoO2 at 4.5 V through co-modification by Mg doping and zirconium oxyfluoride coating. 2015 , 41, 469-474		38
1090	Cycle ageing analysis of a LiFePO4/graphite cell with dynamic model validations: Towards realistic lifetime predictions. <i>Journal of Power Sources</i> , 2015 , 275, 573-587	8.9	122
1089	Tracking inhomogeneity in high-capacity lithium iron phosphate batteries. <i>Journal of Power Sources</i> , 2015 , 275, 429-434	8.9	34
1088	Effect of outer layer thickness on full concentration gradient layered cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 273, 663-669	8.9	22
1087	Lithium Bulphur battery with activated carbon cloth-sulphur cathode and ionic liquid as electrolyte. Journal of Power Sources, 2015, 273, 162-167	8.9	26
1086	Salt-leached microporous membranes for lithium batteries. 2015 , 21, 79-87		6
1085	Improving electrochemical performance of spherical LiMn2O4 cathode materials for lithium ion batteries by Al-F codoping and AlF3 surface coating. 2015 , 21, 27-35		18
1084	Influences of ultrasonic- and microwave-irradiated preparation methods on the structural and dielectric properties of (PEOPMMA) LiCF3SO3 wt% MMT nanocomposite electrolytes. 2015 , 21, 95-109		32
1083	Differential thermal voltammetry for tracking of degradation in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 273, 495-501	8.9	66
1082	Mechanical Synthesis of LiNi0.5Mn1.5O4 Cathode Powders by Using Composite Precursor Particles. 2016 , 53, 774-778		1
1081	. 2016,		1
1080	Electrodeposited Ge Nanostructures Prepared by Different Non-Aqueous Solutions and their Application in Lithium Ion Battery: A Review. 2016 , 10, 26-43		6

1079	The Electrochemical Characteristics and Applicability of an Amorphous Sulfide-Based Solid Ion Conductor for the Next-Generation Solid-State Lithium Secondary Batteries. 2016 , 4,	37
1078	Development of Lithium-Stuffed Garnet-Type Oxide Solid Electrolytes with High Ionic Conductivity for Application to All-Solid-State Batteries. 2016 , 4,	32
1077	Lithium Superionic Conductor Li9.42Si1.02P2.1S9.96O2.04 with Li10GeP2S12-Type Structure in the Li2SP2S5BiO2 Pseudoternary System: Synthesis, Electrochemical Properties, and Structure Composition Relationships. 2016, 4,	34
1076	The Carbon Additive Effect on Electrochemical Performance of LiFe0.5Mn0.5PO4/C Composites by a Simple Solid-State Method for Lithium Ion Batteries. 2016 , 2, 18	1
1075	Generalized Characterization Methodology for Performance Modelling of Lithium-Ion Batteries. 2016 , 2, 37	46
1074	Lightweight Borohydrides Electro-Activity in Lithium Cells. 2016, 9, 238	11
1073	Lignin as a Binder Material for Eco-Friendly Li-Ion Batteries. 2016 , 9,	43
1072	A Brief Review on Multivalent Intercalation Batteries with Aqueous Electrolytes. 2016 , 6,	103
1071	Study of Water-Based Lithium Titanate Electrode Processing: The Role of pH and Binder Molecular Structure. 2016 , 8,	32
1070	Mesoporous hollow carbon spheres for lithium-sulfur batteries: distribution of sulfur and electrochemical performance. 2016 , 7, 1229-1240	25
1069	Technology Choices for Optimizing the Performance of Racing Vehicles. 2016,	2
1068	The Multiobjective Optimal Design Problems and their Pareto Optimal Fronts for Li-Ion Battery Cells. 2016 ,	2
1067	Effects of battery chemistry and performance on the life cycle greenhouse gas intensity of electric mobility. 2016 , 47, 182-194	45
1066	Association and Diffusion of Li(+) in Carboxymethylcellulose Solutions for Environmentally Friendly Li-ion Batteries. 2016 , 9, 1804-13	4
1065	Lithium purification from aqueous solutions using bioinspired redox-active melanin membranes. 2016 , 65, 1331-1338	12
1064	Structure Formation and Thermal Stability of Mono- and Multilayers of Ethylene Carbonate on Cu(111): A Model Study of the Electrode Electrolyte Interface. 2016 , 120, 16791-16803	14
1063	In Situ Coating of Li[Ni0.33 Mn0.33 Co0.33]O2 Particles to Enable Aqueous Electrode Processing. 2016 , 9, 1112-7	53
1062	Asymmetric tetraalkyl ammonium cation-based ionic liquid as an electrolyte for lithium-ion battery applications. 2016 , 20, 2283-2293	13

1061	Implementation of discharging/charging current sensorless state-of-charge estimator reflecting cell-to-cell variations in lithium-ion series battery packs. 2016 , 17, 909-916	3
1060	Characterization and modeling of the thermal mechanics of lithium-ion battery cells. 2016 , 178, 633-646	26
1059	Synthesis and characterization of polymer electrolytes based on cross-linked phenoxy-containing polyphosphazenes. 2016 , 54, 352-358	18
1058	Superior Sodium Storage in 3D Interconnected Nitrogen and Oxygen Dual-Doped Carbon Network. 2016 , 12, 2559-66	127
1057	Liquid-feed flame spray pyrolysis as alternative synthesis for electrochemically active nano-sized Li2MnSiO4. 2016 , 3, 025001	9
1056	Color-Coded Batteries - Electro-Photonic Inverse Opal Materials for Enhanced Electrochemical Energy Storage and Optically Encoded Diagnostics. 2016 , 28, 5681-8	36
1055	Laser processes and analytics for high power 3D battery materials. 2016 ,	4
1054	Tin Selenide [Multi-Walled Carbon Nanotubes Hybrid Anodes for High Performance Lithium-Ion Batteries. 2016 , 211, 720-725	84
1053	Computational multiobjective topology optimization of silicon anode structures for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 326, 242-251	8
1052	Influence of Solvent Evaporation Rate in the Preparation of Carbon-Coated Lithium Iron Phosphate Cathode Films on Battery Performance. 2016 , 4, 573-582	23
1051	A Long-Life Lithium Ion Battery with Enhanced Electrode/Electrolyte Interface by Using an Ionic Liquid Solution. 2016 , 22, 6808-14	42
1050	Nanostructured Anode Materials for Lithium Ion Batteries: Progress, Challenge and Perspective. 2016 , 6, 1600374	294
1049	Fabrication of Nanostructured TiO2 Using a Solvothermal Reaction for Lithium-ion Batteries. 2016 , 6, 15	7
1048	Supramolecular assembly-mediated lithium ion transport in nanostructured solid electrolytes. 2016 , 6, 38223-38227	9
1047	Surface chemistry on LiCoPO4 electrodes in lithium cells: SEI formation and self-discharge. 2016 , 222, 1839-1846	22
1046	Visualization of lithium ions by annular bright field imaging. 2017 , 66, 15-24	7
1045	Research on factors that influence the charging load of Electric Vehicles and modeling of the load. 2016 ,	0
1044	Electrochemical performance of LiFePO4 cylinder cell battery. 2016 ,	Ο

Binder effect on the stability of the thin-film anodes for lithium-ion batteries based on Si@SiO2 nanoparticles. 2016 , 65, 1986-1989	1
The Research on Parameter Optimization of Power Battery Pack Welding Based on Neural Network. 2016 ,	1
Solid electrolyte for solid-state batteries: Have lithium-ion batteries reached their technical limit?. 2016 ,	3
1040 Lithium-lon Batteries: Thermomechanics, Performance, and Design Optimization. 2016 , 1-17	2
Temperature dependent dielectric properties and ion transportation in solid polymer electrolyte for lithium ion batteries. 2016 ,	3
1038 Noise diagnosis of commercial Li-ion batteries using high-order moments. 2016 , 52, 1122-1130	18
1037 Characterization of LiFePO4 cathode by addition of graphene for lithium ion batteries. 2016 ,	2
1036 Industrial applications of ultrafast laser processing. 2016 , 41, 984-992	28
1035 Enhanced Absorption and Diffusion Properties of Lithium on B,N,V-decorated Graphene. 2016 , 6, 37911	11
Conducting Polymer-based Hybrid Nanocomposites as Promising Electrode Materials for Lithium Batteries. 2016 , 355-396	
Ultralong SbSe Nanowire-Based Free-Standing Membrane Anode for Lithium/Sodium Ion Batteries. 2016 , 8, 35219-35226	110
1032 Nanotechnology for environmentally sustainable electromobility. 2016 , 11, 1039-1051	90
1031 OppOrtunities and Potential of the Internet of Things for solving social issues. 2016 ,	
Computational analysis of chemomechanical behaviors of composite electrodes in Li-ion batteries. 2016 , 31, 2715-2727	48
Laser interference patterning and laser-induced periodic surface structure formation on metallic substrates. 2016 ,	2
1028 An optimization model of EVs charging and discharging for power system demand leveling. 2016 ,	
1027 Electrochemomechanics of Electrodes in Li-Ion Batteries: A Review. 2016 , 13,	31
1026 Measurement of Multiscale Thermal Transport Phenomena in Li-Ion Cells: A Review. 2016 , 13,	43

1025	Study of Phosphate Polyanion Electrodes and Their Performance with Glassy Electrolytes: Potential Application in Lithium Ion Solid-state Batteries. 2016 , 321-354		1
1024	Ionic Conducting and Surface Active Binder of Poly (ethylene oxide)-block-poly(acrylonitrile) for High Power Lithium-ion Battery. 2016 , 196, 41-47		14
1023	Facile synthesis of three-dimensional reinforced Sn@polyaniline/sodium alginate nanofiber hydrogel network for high performance lithium-ion battery. 2016 , 27, 4457-4464		18
1022	Electrochemical properties of carbon nanocoils and hollow graphite fibers as anodes for rechargeable lithium ion batteries. 2016 , 199, 204-209		24
1021	Enhanced electrochemical performance of LiFePO4/C nanocomposites due to in situ formation of Fe2P impurities. 2016 , 20, 2275-2282		17
1020	Finite-size effects on the molecular dynamics simulation of fast-ion conductors: A case study of lithium garnet oxide Li7La3Zr2O12. 2016 , 289, 143-149		27
1019	Surface engineering of nanomaterials for improved energy storage 🛭 review. 2016 , 154, 3-19		42
1018	Effect of nickel and iron on structural and electrochemical properties of O3 type layer cathode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 324, 106-112	.9	37
1017	Lithium battery using sulfur infiltrated in three-dimensional flower-like hierarchical porous carbon electrode. 2016 , 180, 82-88		21
1016	Quality and Productivity Considerations for Laser Cutting of LiFePO4 and LiNiMnCoO2 Battery Electrodes. 2016 , 42, 433-438		8
1015	Diffusion-induced 7Li NMR spin-lattice relaxation of fully lithiated, mixed-conducting Li7Ti5O12. 2016 , 287, 77-82		13
1014	Elucidation of the Conversion Reaction of CoMnFeO4 Nanoparticles in Lithium Ion Battery Anode via Operando Studies. 2016 , 8, 15320-32		29
1013	Exploring the working mechanism of Li+ in O3-type NaLi0.1Ni0.35Mn0.55O2 cathode materials for rechargeable Na-ion batteries. 2016 , 4, 9054-9062		63
1012	Polyethylene glycol-induced growth of LiFePO4 platelets with preferentially exposed (010) plane as a cathode material for lithium ion battery. 2016 , 775, 110-115		8
1011	Effect of oxyethylene side chains on ion-conductive properties of polycarbonate-based electrolytes. 2016 , 84, 21-26		49
1010	Effect of liquid oil additive on lithium-ion battery ceramic composite separator prepared with an aqueous coating solution. 2016 , 675, 341-347		12
1009	Peculiarities of ion transport in confined-in-ceramics concentrated polymer electrolytes. 2016 , 208, 71-79		10
1008	4D analysis of the microstructural evolution of Si-based electrodes during lithiation: Time-lapse X-ray imaging and digital volume correlation. <i>Journal of Power Sources</i> , 2016 , 320, 196-203	.9	47

1007	Prediction of lithium-ion battery capacity with metabolic grey model. 2016 , 106, 662-672	34
1006	Techno-economic assessment of an off-grid PV system for developing regions to provide electricity for basic domestic needs: A 2020 2 040 scenario. 2016 , 176, 309-319	66
1005	Three-dimensional graphene-based spheres and crumpled balls: micro- and nano-structures, synthesis strategies, properties and applications. 2016 , 6, 50941-50967	24
1004	Improvement of electrochemical performance of nickel rich LiNi0.6Co0.2Mn0.2O2 cathode active material by ultrathin TiO2 coating. 2016 , 45, 9669-75	73
1003	Carbon/titanium oxide supported bimetallic platinum/iridium nanocomposites as bifunctional electrocatalysts for lithium-air batteries. 2016 , 20, 1397-1404	7
1002	Preparation of three-dimensional free-standing nano-LiFePO4/graphene composite for high performance lithium ion battery. 2016 , 6, 52279-52283	16
1001	Controlled pore evolution during phase inversion from the combinatorial non-solvent approach: application to battery separators. 2016 , 4, 9496-9501	22
1000	Scandium/Alkaline Metal©rganic Frameworks: Adsorptive Properties and Ionic Conductivity. 2016 , 28, 2519-2528	61
999	Winter Happens: The Effect of Ambient Temperature on the Travel Range of Electric Vehicles. 2016 , 65, 4016-4022	46
998	Quaternary Polyethylene Oxide Electrolytes Containing Ionic Liquid for Lithium Polymer Battery. 2016 , 163, A1175-A1180	14
997	High performance screen printable lithium-ion battery cathode ink based on C-LiFePO4. 2016 , 196, 92-100	38
996	CoreBhell-structured nanofibrous membrane as advanced separator for lithium-ion batteries. 2016 , 510, 1-9	70
995	Energy sovereignty in Italian inner areas: Off-grid renewable solutions for isolated systems and rural buildings. 2016 , 93, 14-26	20
994	Preparation of a Binder-Free Three-Dimensional Carbon Foam/Silicon Composite as Potential Material for Lithium Ion Battery Anodes. 2016 , 8, 7343-8	54
993	Enhanced moisture repulsion of ceramic-coated separators from aqueous composite coating solution for lithium-ion batteries inspired by a plant leaf surface. 2016 , 4, 5069-5074	13
992	Microwave assisted hydrothermal synthesis of MnO2D.5H2O ion-sieve for lithium ion selective adsorption. 2016 , 51, 874-882	16
991	Discovery, supply and demand: From Metals of Antiquity to critical metals Preliminary versions of this paper were presented as an invited keynote to the Metal Pages (now Argus Media) China Metals Week (Sykes, Wright and Trench 2014) and published as a short article in Resourcestocks	13
990	magazine (Sykes and Wright 2014). This is the first full publication of the presentation and Physical and electrochemical properties of lithium bis(oxalate)borateBrganic mixed electrolytes tes in Li-ion batteries. 2016 , 204, 69-77 125, 3-20	17

(2016-2016)

989	A probability load modeling method for the charging demand of large-scale PEVs accounting users charging willingness. 2016 , 82, 331-338	10
988	The state of understanding of the lithium-ion-battery graphite solid electrolyte interphase (SEI) and its relationship to formation cycling. 2016 , 105, 52-76	869
987	Electrospun ZnOBnO2 composite nanofibers with enhanced electrochemical performance as lithium-ion anodes. 2016 , 42, 10826-10832	30
986	The role of stable interface in nano-sized FeNbO4 as anode electrode for lithium-ion batteries. 2016 , 203, 206-212	19
985	Generation and detection of metal ions and volatile organic compounds (VOCs) emissions from the pretreatment processes for recycling spent lithium-ion batteries. 2016 , 52, 221-7	77
984	Binding of carbon coated nano-silicon in graphene sheets by wet ball-milling and pyrolysis as high performance anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 318, 113-120	72
983	High Voltage Li-Ion Battery Using Exfoliated Graphite/Graphene Nanosheets Anode. 2016 , 8, 10850-7	49
982	Lifecycle cost assessment and carbon dioxide emissions of diesel, natural gas, hybrid electric, fuel cell hybrid and electric transit buses. 2016 , 106, 329-342	173
981	Enhanced anode performance of manganese oxides with petal-like microsphere structures by optimizing the sintering conditions. 2016 , 6, 34501-34506	5
980	Optimized Li and Fe recovery from spent lithium-ion batteries via a solution-precipitation method. 2016 , 6, 43613-43625	83
979	Improved performance of rare earth doped LiMn2O4 cathodes for lithium-ion battery applications. 2016 , 40, 6244-6252	45
978	Nanostructured electrode materials for lithium-ion and sodium-ion batteries via electrospinning. 2016 , 59, 287-321	109
977	New kinetic insight into the spontaneous oxidation process of lithium in air by EPMA. 2016 , 383, 64-70	4
976	Lithium Dendrite Suppression with UV-Curable Polysilsesquioxane Separator Binders. 2016 , 8, 12852-8	49
975	Investigation of the electrochemical features of carbon-coated TiO2 anode for application in lithium-ion battery using high voltage LiNi0.5Mn1.5O4 spinel cathode. 2016 , 201, 158-164	4
974	Sustainable integration of intermittent renewable energy and electrified light-duty transportation through repurposing batteries of plug-in electric vehicles. 2016 , 106, 701-711	28
973	Model for charge/discharge-rate-dependent plastic flow in amorphous battery materials. 2016 , 94, 167-180	13
972	Novel functionalized ionic liquid with a sulfur atom in the aliphatic side chain of the pyrrolidinium cation. 2016 , 63, 26-29	8

971	Electrochemical performance and surface chemistry of nanoparticle Si@SiO 2 Li-ion battery anode in LiPF 6 -based electrolyte. 2016 , 208, 109-119	25
970	Giant Electric-Field-Induced Strain in PVDF-Based Battery Separator Membranes Probed by Electrochemical Strain Microscopy. 2016 , 32, 5267-76	18
969	Sustainable Energy Systems: The Strategic Role of Chemical Energy Conversion. 2016 , 59, 772-786	35
968	Progress in development of flexible metallir batteries. 2016 , 09, 1630001	33
967	ARC Study of LiFePO4with Different Morphologies Prepared via Three Synthetic Routes. 2016 , 163, A1311-A	13:196
966	Synthesis of Li4Ti5O12-reduced graphene oxide composite and its application for hybrid supercapacitors. 2016 , 22, 1829-1836	5
965	Facile Synthesis of Porous Zn-Sn-O Nanocubes and Their Electrochemical Performances. 2016 , 8, 174-181	20
964	Production and characterization of free-standing ZnO/SnO2/MWCNT ternary nanocomposite Li-ion battery anode. 2016 , 41, 9924-9932	15
963	Discriminating the Mobile Ions from the Immobile Ones in Li4+xTi5O12: 6Li NMR Reveals the Main Li+ Diffusion Pathway and Proposes a Refined Lithiation Mechanism. 2016 , 120, 11372-11381	34
962	Property-Relaxation Correlations in 3D-Siloxane/Polyether Hybrid Polymer Electrolytes. 2016 , 120, 10770-10	780
961	Highly-ordered microporous carbon nanospheres: a promising anode for high-performance sodium-ion batteries. 2016 , 6, 84149-84154	12
960	Electrochemical Behavior of Layered Vanadium Oxychloride in Rechargeable Lithium Ion Batteries. 2016 , 163, A2326-A2332	6
959	(De)Lithiation of tubular polypyrrole-derived carbon/sulfur composite in lithium-sulfur batteries. 2016 , 780, 26-31	24
958	All solid-state battery using layered oxide cathode, lithium-carbon composite anode and thio-LISICON electrolyte. 2016 , 296, 13-17	30
957	Cobalt nanoparticles encapsulated in N-doped graphene nanoshells as an efficient cathode electrocatalyst for a mechanical rechargeable zincBir battery. 2016 , 6, 90069-90075	17
956	Temperature dependency of state of charge inhomogeneities and their equalization in cylindrical lithium-ion cells. <i>Journal of Power Sources</i> , 2016 , 329, 546-552	19
955	2D and 3D photonic crystal materials for photocatalysis and electrochemical energy storage and conversion. 2016 , 17, 563-582	62
954	Natural Nanofibers in Polymer Membranes for Energy Applications. 2016 , 379-412	

953	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. 2016 , 101, 311-318	36
952	Iron phosphide (FeP) synthesis, and full cell lithium-ion battery study with a [Li(NiMnCo)O2] cathode. 2016 , 6, 87675-87679	15
951	Characterizing different types of lithium ion cells with an automated measurement system. 2016 , 7, 244-251	5
950	Graphite-Encapsulated Li-Metal Hybrid Anodes for High-Capacity Li Batteries. 2016 , 1, 287-297	197
949	One-pot preparation of new copolymer electrolytes with tunable network structure for all-solid-state lithium battery. <i>Journal of Power Sources</i> , 2016 , 331, 322-331	56
948	Highly flexible TiO2-coated stainless steel fabric electrode prepared by liquid-phase deposition. <i>Journal of Power Sources</i> , 2016 , 330, 204-210	4
947	Structural and electrochemical investigations of the electrodes obtained by recycling of lead acid batteries. 2016 , 780, 187-196	12
946	Facile Synthesis of Ge/N-Doped Carbon Spheres with Varying Nitrogen Content for Lithium Ion Battery Anodes. 2016 , 8, 27788-27794	46
945	An Electrochemical Impedance Spectroscopy Study on a Lithium Sulfur Pouch Cell. 2016 , 72, 13-22	7
944	Room Temperature Synthesis of rGO/[K2(VO)2(C2O4)(HPO4)2] for Greener and Cheaper Lithium Ion Batteries. 2016 , 67-80	
943	Transmission electron microscopy of topochemical conversion interface between La2Ti2O7 reactive template and perovskite product Li0.16La0.62TiO3 electrolyte. 2016 , 296, 78-84	6
942	Boosting the Energy Density of 3D Dual-Manganese Oxides-Based Li-Ion Supercabattery by Controlled Mass Ratio and Charge Injection. 2016 , 163, A2618-A2622	10
941	Computer simulation evaluation of the geometrical parameters affecting the performance of two dimensional interdigitated batteries. 2016 , 780, 1-11	13
940	Influence of fluoropolymer binders on the electrochemical performance of C-LiFePO 4 based cathodes. 2016 , 295, 57-64	26
939	Industrialization of tailoring spherical cathode material towards high-capacity, cycling-stable and superior low temperature performance for lithium-ion batteries. 2016 , 6, 97818-97824	7
938	Grain boundary effects on Li-ion diffusion in a Li1.2Co0.13Ni0.13Mn0.54O2 thin film cathode studied by scanning probe microscopy techniques. 2016 , 6, 94000-94009	28
937	Prognostication of remaining useful-life for flexible batteries in foldable wearable electronics. 2016 ,	2
936	Effect of coatings on the green electrode processing and cycling behaviour of LiCoPO4. 2016 , 4, 17121-17128	24

935	Electrochemical behavior and structural stability of LiV3O8 microrods as cathode for lithium-ion batteries. 2016 , 42, 18747-18755		6
934	Surface Analytical Study Regarding the Solid Electrolyte Interphase Composition of Nanoparticulate SnO2 Anodes for Li-Ion Batteries. 2016 , 120, 24706-24714		22
933	Challenges and prospects of the role of solid electrolytes in the revitalization of lithium metal batteries. 2016 , 4, 17251-17259		202
932	Manganese oxides nanocrystals supported on mesoporous carbon microspheres for energy storage application. 2016 , 33, 3029-3034		11
931	Build and Test Research of a Coaxial Hybrid-power Gas Engine Heat Pump System Based on LiFePO4 Battery. 2016 , 146, 431-440		1
930	Structure and Li ion transport in a mixed carbonate/LiPF electrolyte near graphite electrode surfaces: a molecular dynamics study. 2016 , 18, 27868-27876		31
929	A novel imidazole-based electrolyte additive for improved electrochemical performance at elevated temperature of high-voltage LiNi0.5Mn1.5O4 cathodes. <i>Journal of Power Sources</i> , 2016 , 329, 586-593	8.9	38
928	Direct visualization of lithium via annular bright field scanning transmission electron microscopy: a review. 2017 , 66, 3-14		20
927	Polymer-Based Organic Batteries. 2016 , 116, 9438-84		677
926	3D graphene-based hybrid materials: synthesis and applications in energy storage and conversion. 2016 , 8, 15414-47		105
925	Flame made nanoparticles permit processing of dense, flexible, Li+ conducting ceramic electrolyte thin films of cubic-Li7La3Zr2O12 (c-LLZO). 2016 , 4, 12947-12954		103
924	Durability comparison of four different types of high-power batteries in HEV and their degradation mechanism analysis. 2016 , 179, 1123-1130		27
923	Polymeric Ionic Liquid Gel Electrolyte for Room Temperature Lithium Battery Applications. 2016 , 213, 587-593		100
922	Synthesis of SnO2/Sn hybrid hollow spheres as high performance anode materials for lithium ion battery. 2016 , 688, 908-913		26
921	Phosphate Based Cathodes and Reduced Graphene Oxide Composite Anodes for Energy Storage Applications. 2016 ,		6
920	A high performance electrode material for lithium ion batteries derived from a cobalt-based coordination polymer. 2016 , 41, 17029-17036		7
919	Introduction to Li-ion Batteries. 2016 , 1-30		1
918	Characterizing rapid capacity fade and impedance evolution in high rate pulsed discharged lithium iron phosphate cells for complex, high power loads. <i>Journal of Power Sources</i> , 2016 , 328, 81-90	8.9	16

(2016-2016)

917	Modelling global extraction, supply, price and depletion of the extractable geological resources with the LITHIUM model. 2016 , 114, 112-129	73
916	Application-specific electrical characterization of high power batteries with lithium titanate anodes for electric vehicles. 2016 , 112, 294-306	38
915	Effect of cyano dipolar groups on the performance of lithium-ion battery electrospun polyimide gel electrolyte membranes. 2016 , 778, 57-65	15
914	Lithium rhenium(VII) oxide as a novel material for graphite pre-lithiation in high performance lithium-ion capacitors. 2016 , 4, 12609-12615	59
913	First-principles simulations of lithiation deformation behavior in silicon nanotube electrodes. 2016 , 123, 44-51	32
912	Experimental and numerical investigation of core cooling of Li-ion cells using heat pipes. 2016 , 113, 852-860	55
911	Flexible solid state supercapacitor of metal organic framework coated on carbon nanotube film interconnected by electrochemically -codeposited PEDOT-GO. 2016 , 1, 285-289	44
910	A comprehensive review of on-board State-of-Available-Power prediction techniques for lithium-ion batteries in electric vehicles. <i>Journal of Power Sources</i> , 2016 , 329, 123-137	102
909	Graphene/Sulfur Composites with a Foam-Like Porous Architecture and Controllable Pore Size for High Performance LithiumBulfur Batteries. 2016 , 2, 952-958	15
908	Computational modeling of Li-ion batteries. 2016 , 58, 889-909	39
907	Recent progress in first-principles simulations of anode materials and interfaces for lithium ion batteries. 2016 , 13, 75-81	8
906	Mesoporous silica nanoparticles as high performance anode materials for lithium-ion batteries. 2016 , 40, 8202-8205	17
905	Recent progress of silicon composites as anode materials for secondary batteries. 2016 , 6, 87778-87790	48
904	Core-shell amorphous silicon-carbon nanoparticles for high performance anodes in lithium ion batteries. <i>Journal of Power Sources</i> , 2016 , 328, 527-535	52
903	In Situ XRD and TEM Studies of Sol-Gel-Based Synthesis of LiFePO4. 2016 , 16, 5006-5013	17
902	Graphitized porous carbon nanofibers prepared by electrospinning as anode materials for lithium ion batteries. 2016 , 6, 83185-83195	19
901	Fundamental Research on a New Process to Remove Al3+ as Potassium Alum during Lithium Extraction from Lepidolite. 2016 , 47, 3557-3564	11
900	Exceptional long-life performance of lithium-ion batteries using ionic liquid-based electrolytes. 2016 , 9, 3210-3220	108

899	Simple Synthesis of Nanocrystalline Tin Sulfide/N-Doped Reduced Graphene Oxide Composites as Lithium Ion Battery Anodes. 2016 , 10, 10778-10788	146
898	Multi-Scale Correlative Tomography of a Li-Ion Battery Composite Cathode. 2016 , 6, 30109	40
897	Kinetics of Na CF x and Li CF x systems. 2016 , 20, 3367-3373	10
896	Review B ost-Mortem Analysis of Aged Lithium-Ion Batteries: Disassembly Methodology and Physico-Chemical Analysis Techniques. 2016 , 163, A2149-A2164	126
895	A fluoride-selective electrode (Fse) for the quantification of fluoride in lithium-ion battery (Lib) electrolytes. 2016 , 8, 6932-6940	9
894	Niobium carbide nanofibers as a versatile precursor for high power supercapacitor and high energy battery electrodes. 2016 , 4, 16003-16016	41
893	Effective Polysulfide Rejection by Dipole-Aligned BaTiO3 Coated Separator in LithiumBulfur Batteries. 2016 , 26, 7817-7823	129
892	Electrochemical properties of enclosed silicon nanopowder electrode inserted in integrated TiO 2 nanotubes grown on titanium for Li-ion battery. 2016 , 215, 674-681	4
891	Monoclinic	7
890	Leveraging valuable synergies by combining alloying and conversion for lithium-ion anodes. 2016 , 9, 3348-3367	153
889	Synthesis and electrochemical characterization of stoichiometric Cu2S as cathode material with high rate capability for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2016 , 331, 258-266	23
888	Towards Li(Ni0.33Mn0.33Co0.33)O2/graphite batteries with ionic liquid-based electrolytes. I. Electrodes' behavior in lithium half-cells. <i>Journal of Power Sources</i> , 2016 , 331, 426-434	18
887	Removal of Aluminum from Leaching Solution of Lepidolite by Adding Ammonium. 2016 , 68, 2653-2658	7
886	Controlled Growth of Nanostructured Biotemplates with Cobalt and Nitrogen Codoping as a Binderless Lithium-Ion Battery Anode. 2016 , 8, 26868-26877	8
885	Quantitative probe of the transition metal redox in battery electrodes through soft x-ray absorption spectroscopy. 2016 , 49, 413003	74
884	A flexible Li-ion battery with design towards electrodes electrical insulation. 2016 , 26, 084002	4
883	Oxidized multiwall carbon nanotube modified separator for high performance lithium ulfur batteries with high sulfur loading. 2016 , 6, 89972-89978	24
882	Inhomogeneous Degradation of Graphite Anodes in Li-Ion Cells: A Postmortem Study Using Glow Discharge Optical Emission Spectroscopy (GD-OES). 2016 , 120, 22225-22234	46

An Aqueous Symmetric Sodium-Ion Battery with NASICON-Structured Na3MnTi(PO4)3. 2016, 128, 12960-129643 881 An Aqueous Symmetric Sodium-Ion Battery with NASICON-Structured Na3 MnTi(PO4) 3. 2016, 55, 12768-72 880 176 Vinyl monomers bearing a sulfonyl(trifluoromethane sulfonyl) imide group: synthesis and 879 15 polymerization using nitroxide-mediated polymerization. **2016**, 7, 6901-6910 Preliminary study of structural changes in Li2MnSiO4 cathode material during electrochemical 878 reaction. 2016, 09, 1641003 Microwave-assisted synthesis of functional electrode materials for energy applications. 2016, 20, 2915-2928 877 All solid-state polymer electrolytes for high-performance lithium ion batteries. 2016, 5, 139-164 876 555 Transition Metal Carbides and Nitrides in Energy Storage and Conversion. 2016, 3, 1500286 762 875 Enhanced Performance of a LithiumBulfur Battery Using a Carbonate-Based Electrolyte. 2016, 128, 10528-105317 874 Enhanced Performance of a Lithium-Sulfur Battery Using a Carbonate-Based Electrolyte. 2016, 55, 10372-5 873 94 Carbon nanotubes in Li-ion batteries: A review. 2016, 213, 12-40 87 872 Nanomaterials in Advanced Batteries and Supercapacitors. 2016, 871 21 In operando neutron diffraction study of a commercial graphite/(Ni, Mn, Co) oxide-based 8.9 870 18 multi-component lithium ion battery. Journal of Power Sources, 2016, 326, 93-103 Safer lithium metal battery based on advanced ionic liquid gel polymer nonflammable electrolytes. 869 23 2016, 6, 101638-101644 Effects of Sublattice Symmetry and Frustration on Ionic Transport in Garnet Solid Electrolytes. 868 45 2016, 116, 055901 Assessing Charge Contribution from Thermally Treated Ni Foam as Current Collectors for Li-Ion 867 9 Batteries. 2016, 163, A1805-A1811 866 Manganese dissolution in lithium-ion positive electrode materials. 2016, 294, 1-5 21 Observation of the lithium storage behavior in LiCrTiO4 via in-situ and ex-situ techniques. 2016, 865 26 212, 84-94 A novel phenomenological multi-physics model of Li-ion battery cells. Journal of Power Sources, 864 8.9 29 **2016**, 326, 447-458

863	Rational design of stable 4 V lithium ion capacitor. 2016 , 27, 202-212	52
862	Computational Modelling as a Value Add in Energy Storage Materials. 2016 , 481-513	1
861	Alkali Metals. 2016 , 135-154	
860	Microwave-enhanced electrochemical cycling performance of the LiNi0.2Mn1.8O4 spinel cathode material at elevated temperature. 2016 , 18, 13074-83	36
859	Mussel-Inspired Polydopamine-Functionalized Super-P as a Conductive Additive for High-Performance Silicon Anodes. 2016 , 3, 1600270	11
858	Qualitative and quantitative investigation of organophosphates in an electrochemically and thermally treated lithium hexafluorophosphate-based lithium ion battery electrolyte by a developed liquid chromatography-tandem quadrupole mass spectrometry method. 2016 , 6, 8-17	63
857	Polymer Electrolytes for Lithium Secondary Batteries. 2016 , 547-565	
856	A Scaled-Up Lithium (Ion)-Sulfur Battery: Newly Faced Problems and Solutions. 2016 , 1, 1600052	23
855	Minute-made activated porous carbon from agro-waste for Li-ion battery anode using a low power microwave oven. 2016 , 212, 535-544	23
854	Universal Relationship between Conductivity and Solvation-Site Connectivity in Ether-Based Polymer Electrolytes. 2016 , 49, 5244-5255	47
853	Contactless, non-intrusive core temperature measurement of a solid body in steady-state. 2016 , 101, 779-788	4
852	BMS influence on Li-ion packs characterization and modeling. 2016 ,	O
851	Synthesis and 7Li Ion Dynamics in Polyarylene-Ethersulfone-Phenylene-Oxide-Based Polymer Electrolytes. 2016 , 217, 2584-2594	5
850	Novel method of current collector coating by multiwalled carbon nanotube Langmuir layer for enhanced power performance of LiMn2O4 electrode of Li-ion batteries. 2016 , 222, 921-925	9
849	Synthesis of ⊞e2O3/carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. 2016 , 4, 18223-18239	71
848	Synthesis LiMn0.7Fe0.2Ni0.1PO4 and Carbon Coating with Cassava Powder and Citric Acid as Carbon Source. 2016 , 73, 37-42	
847	Facile synthesis of a nickel vanadate/Ni composite and its electrochemical performance as an anode for lithium ion batteries. 2016 , 6, 90197-90205	18
846	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. 2016 , 1, 1247-1255	218

(2016-2016)

845	In situ soft-chemistry synthesis of <code>\Page Name Name Name Name Name Name Name Nam</code>		7
844	Amorphous FeO/Graphene Composite Nanosheets with Enhanced Electrochemical Performance for Sodium-Ion Battery. 2016 , 8, 30899-30907		134
843	Rechargeable lithium battery using non-flammable electrolyte based on tetraethylene glycol dimethyl ether and olivine cathodes. <i>Journal of Power Sources</i> , 2016 , 334, 146-153	8.9	39
842	Mussel-inspired Polydopamine-treated Copper Foil as a Current Collector for High-performance Silicon Anodes. 2016 , 6, 30945		23
841	Hierarchical Porous LiNi1/3Co1/3Mn1/3O2 Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li(+) Mobility for Enhanced Electrochemical Performance. 2016 , 6, 25771		122
840	The role of graphene in nano-layered structure and long-term cycling stability of MnxCoyNizCO3 as an anode material for lithium-ion batteries. 2016 , 6, 105252-105261		5
839	Carbon as Quasi-Reference Electrode in Unconventional Lithium-Salt Containing Electrolytes for Hybrid Battery/Supercapacitor Devices. 2016 , 163, A2956-A2964		25
838	High-power all-solid-state batteries using sulfide superionic conductors. 2016 , 1,		1667
837	Promises and challenges of nanomaterials for lithium-based rechargeable batteries. 2016 , 1,		1080
836	Boosting the power performance of multilayer graphene as lithium-ion battery anode via unconventional doping with in-situ formed Fe nanoparticles. 2016 , 6, 23585		30
835	Synthesis of Reduced Graphene Oxide-Modified LiMn0.75Fe0.25PO4 Microspheres by Salt-Assisted Spray Drying for High-Performance Lithium-Ion Batteries. 2016 , 6, 26686		14
834	Building better lithium-sulfur batteries: from LiNO3 to solid oxide catalyst. 2016 , 6, 33154		71
833	Cross-Linked Solid Polymer Electrolyte for All-Solid-State Rechargeable Lithium Batteries. 2016 , 220, 587-594		103
832	Eco-friendly nitrogen-containing carbon encapsulated LiMn2O4 cathodes to enhance the electrochemical properties in rechargeable Li-ion batteries. 2016 , 6, 29826		33
831	Butler-Volmer equation-based model and its implementation on state of power prediction of high-power lithium titanate batteries considering temperature effects. 2016 , 117, 58-72		28
830	LithiumBelenium and sodiumBelenium systems: Thermodynamic properties and prospects for use in chemical current sources. 2016 , 89, 1043-1053		6
829	Electric Drives for Propulsion System of Transport Aircraft. 2016 , 1-19		2
828	Anomalous Lithium Adsorption Propensity of Monolayer Carbonaceous Materials: A Density Functional Study. 2016 , 128, 1641-1649		1

Improved electrical properties of free standing blend polymer for renewable energy resources. 827 2016. Synthesis of Ionic Liquid Based Electrolytes, Assembly of Li-ion Batteries, and Measurements of 826 Performance at High Temperature. 2016, An Effectively Activated Hierarchical Nano-/Microspherical Li1.2Ni0.2Mn0.6O2 Cathode for 52 825 Long-Life and High-Rate Lithium-Ion Batteries. 2016, 9, 728-35 Carbon Nanofiber/3D Nanoporous Silicon Hybrids as High Capacity Lithium Storage Materials. 2016 824 20 , 9, 834-40 Electrochemical Study of a CuOtarbon Conversion Anode in Ionic Liquid Electrolyte for 823 9 Application in Li-Ion Batteries. 2016, 4, 700-705 Nanostructured Silicon Anodes for High-Performance Lithium-Ion Batteries. 2016, 26, 647-678 822 216 Revealing Rate Limitations in Nanocrystalline Li4Ti5O12 Anodes for High-Power Lithium Ion 821 19 Batteries. 2016, 3, 1600003 Armoring Graphene Cathodes for High-Rate and Long-Life Lithium Ion Supercapacitors. 2016, 6, 1502064 820 73 Thermodynamic Stability of Transition-Metal-Substituted LiMn2-x Mx O4 (M=Cr, Fe, Co, and Ni) 8 819 Spinels. 2016, 17, 1973-8 818 The Sodium-Oxygen/Carbon Dioxide Electrochemical Cell. 2016, 9, 1600-6 13 High-Temperature Structural Evolution of the Disordered LiMn1.5Ni0.5O4. 2016, 99, 1815-1822 817 9 Electrochemical properties of Sn-decorated SnO nanobranches as an anode of Li-ion battery. 2016, 816 11 3,9 A novel approach for electrical circuit modeling of Li-ion battery for predicting the steady-state and 815 9 dynamic IIV characteristics. 2016, 41, 479-487 Microwave-assisted hydrothermal synthesis of NH4V3O8 microcrystals with controllable 814 11 morphology. 2016, 83, 225-229 Ionic Liquid-Organic Carbonate Electrolyte Blends To Stabilize Silicon Electrodes for Extending 813 40 Lithium Ion Battery Operability to 100 °C. 2016, 8, 15242-9 Ionic Liquid-Based Polymer Electrolytes via Surfactant-Assisted Polymerization at the 812 11 Plasma-Liquid Interface. 2016, 8, 16125-35 Novel highly conductive ferroferric oxide/porous carbon nanofiber composites prepared by 811 16 electrospinning as anode materials for high performance Li-ion batteries. 2016, 6, 58529-58540 A novel low-temperature solid-state route for nanostructured cubic garnet Li7La3Zr2O12 and its 810 52 application to Li-ion battery. 2016, 6, 62656-62667

(2021-2016)

809	Gel polymer electrolytes based on poly(methacrylamide) derivative having branched pendant with terminal nitrile groups. 2016 , 293, 13-17	6
808	Li4Ge2B as a new derivative of the Mo2B5 and Li5Sn2 structure types. 2016 , 72, 561-5	1
807	Flexible sulfur wires (Flex-SWs) A new versatile platform for lithium-sulfur batteries. 2016, 212, 286-293	12
806	Improved electrochemical properties of LiFe0.5Mn0.5PO4/C composite materials via a surface coating process. <i>Journal of Power Sources</i> , 2016 , 325, 565-574	10
805	Al2O3/poly(ethylene terephthalate) composite separator for high-safety lithium-ion batteries. 2016 , 22, 2143-2149	30
804	Concept development and techno-economic assessment for a solar home system using lithium-ion battery for developing regions to provide electricity for lighting and electronic devices. 2016 , 122, 439-448	30
803	Solvent transfer of graphene oxide for synthesis of tin mono-sulfide graphene composite and application as anode of lithium-ion battery. 2016 , 213, 69-82	5
802	Design optimization of tab attachment positions and cell aspect ratio to minimize temperature difference in 45-Ah LFP large-format lithium-ion pouch cells. 2021 , 182, 116143	2
801	Nickel-Rich Layered Cathode Materials for Lithium-Ion Batteries. 2021 , 27, 4249-4269	7
800	MnSb2S4 nanorods linked with interconnected reduced graphene oxide as high-performance anode for sodium ion batteries. 2021 , 366, 137317	5
799	Adsorption and diffusion of alkali atoms on FeX2 (X´=´Se, S) surfaces for potassium-ion battery applications. 2021 , 536, 147774	5
798	A safety performance estimation model of lithium-ion batteries for electric vehicles under dynamic compression. 2021 , 215, 119050	13
797	Research progress and application prospect of solid-state electrolytes in commercial lithium-ion power batteries. 2021 , 35, 70-87	37
796	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. 2021 , 47, 4404-4425	47
795	Vanadium hexacyanoferrate with two redox active sites as cathode material for aqueous Zn-ion batteries. <i>Journal of Power Sources</i> , 2021 , 484, 229263	15
794	Cellulose-based material in lithium-sulfur batteries: A review. 2021 , 255, 117469	16
793	Highly-lithiophilic Ag@PDA-GO film to Suppress Dendrite Formation on Cu Substrate in Anode-free Lithium Metal Batteries. 2021 , 35, 334-344	36
792	Progress in layered cathode and anode nanoarchitectures for charge storage devices: Challenges and future perspective. 2021 , 35, 443-469	18

791	Effective thermo-electro-mechanical modeling framework of lithium-ion batteries based on a representative volume element approach. 2021 , 33, 102090		10
790	Regulating lithium deposition via bifunctional regular-random cross-linking network solid polymer electrolyte for Li metal batteries. <i>Journal of Power Sources</i> , 2021 , 484, 229186	8.9	11
789	Scalable Processing Routes for the Production of All-Solid-State Batteries Modeling Interdependencies of Product and Process. 2021 , 9, 2000665		8
788	A theory for coupled lithium insertion and viscoplastic flow in amorphous anode materials for Li-ion batteries. 2021 , 152, 103663		9
787	Large-scale automotive battery cell manufacturing: Analyzing strategic and operational effects on manufacturing costs. 2021 , 232, 107982		39
786	A novel ceramic/polyurethane composite solid polymer electrolyte for high lithium batteries. 2021 , 27, 569-575		3
7 ⁸ 5	The influence of heat treatment on discharge and electrochemical properties of Mg-Gd-Zn magnesium anode with long period stacking ordered structure for Mg-air battery. 2021 , 367, 137518		12
784	Solid electrolyte interphase layer formation on mesophase graphite electrodes with different electrolytes studied by small-angle neutron scattering. 2021 , 68, 434-443		1
783	The in-situ testing and modeling on sealing strength deterioration of lithium-ion pouch cell. 2021 , 120, 105036		1
782	Design and Experiment of FBG Sensors for Temperature Monitoring on External Electrode of Lithium-Ion Batteries. 2021 , 21, 4628-4634		5
781	Tough and Flexible, Super Ion-Conductive Electrolyte Membranes for Lithium-Based Secondary Battery Applications. 2021 , 31, 2008586		13
780	Magnetic properties and vanadium oxidation state in £i3V2(PO4)3/C composite: Magnetization and ESR measurements. 2021 , 323, 114108		3
779	Enhanced ionic conductivity in poly(vinylidene fluoride) electrospun separator membranes blended with different ionic liquids for lithium ion batteries. 2021 , 582, 376-386		29
778	Dual-purpose thermal management of Li-ion cells using solid-state thermoelectric elements. 2021 , 45, 4303-4313		O
777	Boron group element doping of Li1.5Al0.5Ge1.5(PO4)3 based on microwave sintering. 2021 , 25, 527-534	1	3
776	Insight into thermal behavior mechanism of Li3VO4 anode for safety design of Li-Ion batteries. 2021 , 856, 157363		3
775	A durable lithiumEellurium battery: Effects of carbon pore structure and tellurium content. 2021 , 173, 11-21		10
774	Cathodes for Aqueous Zn-Ion Batteries: Materials, Mechanisms, and Kinetics. 2021 , 27, 830-860		31

773	Li S-Based Li-Ion Sulfur Batteries: Progress and Prospects. 2021 , 17, e1903934	16
772	Ionic liquid functionalized nanoparticles: Synthetic strategies and electrochemical applications. 2021 , 147-173	
771	Bacterial cellulose nanofiber membrane for use as lithium-ion battery separator. 647, 012069	1
770	Selection and Calculation of the Formula Student Racecar Battery. 2021 , 390-398	
769	Multiobjective optimization of air-cooled battery thermal management system based on heat dissipation model. 2021 , 27, 1307-1322	4
768	Electrochemical characterization and thermodynamic analysis of TEMPO derivatives in ionic liquids. 2021 , 23, 10205-10217	3
767	Synthesis of PTFE based Air Cathode for Metal Air Battery. 2021 , 233, 01005	
766	Relevance on the Recovery of High Economic Value Elements and Potential of Ionic Liquids. 2021 , 1-28	
765	The Role of Electrospun Nanomaterials in the Future of Energy and Environment. 2021, 14,	9
764	Surface modification and functionalization of powder materials by atomic layer deposition: a review 2021 , 11, 11918-11942	11
763	Heat treatment effects in oxygen-doped Li3PS4 solid electrolyte prepared by wet chemistry method. 2021 , 25, 1259-1269	3
762	In situ formation of polymer electrolytes using a dicationic imidazolium cross-linker for high-performance lithium ion batteries. 2021 , 9, 5796-5806	3
761	Critical role of zeolites as H2S scavengers in argyrodite Li6PS5Cl solid electrolytes for all-solid-state batteries. 2021 , 9, 17311-17316	6
760	A novel technology of recovering magnetic micro particles from spent lithium-ion batteries by ultrasonic dispersion and waterflow-magnetic separation. 2021 , 164, 105172	12
759	Carbon nanotubes coupled with layered graphite to support SnTe nanodots as high-rate and ultra-stable lithium-ion battery anodes. 2021 , 13, 3782-3789	9
758	A theoretical study on the intercalation and diffusion of AlF in graphite: its application in rechargeable batteries. 2021 , 23, 19579-19589	1
757	Multifaceted usage of miniaturized energy technologies for sustainable energy harvesting. 2021, 369-405	Ο
756	Cellulose acetate containing CaO coated on polypropylene for enhanced thermal stability of separator. 2021 , 57, 4388-4391	2

755	Asymptotic Reduction of a Lithium-Ion Pouch Cell Model. 2021 , 81, 765-788	4
754	Recent developments of polyimide materials for lithium-ion battery separators. 2021 , 27, 907-923	12
753	. 2021 , 70, 1-9	4
75 ²	Probing of Internal Short Circuit in Lithium-Ion Pouch Cells by Electrochemical Impedance Spectroscopy under Mechanical Abusive Conditions. 2020 , 167, 160553	2
751	Recent developments in natural mineral-based separators for lithium-ion batteries 2021 , 11, 16633-16644	3
750	ELECTROCATALYSIS OF THE OXYGEN REACTION ON THE MULTICOMPONENT OXIDES OF TRANSITION METALS. 2021 , 86, 103-123	
749	Electrospun Polyvinylidene Difluoride Membranes for High-Performance Application in Lithium Ion Batteries. 2021 , 73-94	
748	Mixtures of Glyoxylic Acetals and Organic Carbonates as Electrolytes for Lithium-Ion Batteries. 2021 , 168, 010513	4
747	An Active Equalization Method for Lithium-ion Batteries Based on Flyback Transformer and Variable Step Size Generalized Predictive Control. 2021 , 14, 207	3
746	MOF-derived porous carbon nanofibers wrapping Sn nanoparticles as flexible anodes for lithium/sodium ion batteries. 2021 , 32, 165401	17
745	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. 2021 , 5, 3298-3321	15
744	Thermokinetic and thermodynamics of Pechini derived Li7BxAlxLa3Zr2O12 (X = $0.0D.2$) xerogel decomposition under oxidative conditions. 2021 , 146, 1405-1420	1
743	High Rate Lithium Ion Battery with Niobium Tungsten Oxide Anode. 2021 , 168, 010525	5
742	Helical carbon nanofibers modified with FeO as a high performance anode material for lithium-ion batteries. 2021 , 50, 5819-5827	3
741	Effects of pre-charge temperatures on gas production and electrochemical performances of lithium-ion batteries. 2021 , 248, 01040	
740	Simulation of Electric Vehicle Driven by PWM Inverter Fed Induction Machine. 2021 , 2639-2648	
739	Recovery of Nanomaterials for Battery Applications. 2021 , 125-145	
738	Recovery of Cobalt and Manganese from Spent Lithium-ion Batteries using a Phosphonium-based lonic Liquid. 2021 , 28, 79-93	1

737	Progress of Metal Chalcogenides in Supercapacitors. 2021 , 424-424		4
736	MetalBrganic frameworks and zeolite materials as active fillers for lithium-ion battery solid polymer electrolytes. 2021 , 2, 3790-3805		6
735	Application of X-ray photoelectron spectroscopy in the study of the interfaces for solid-state lithium ion battery. 2021 , 0-0		0
734	Supercapacitors based on two-dimensional metal oxides, hydroxides, and its graphene-based hybrids. 2021 , 193-215		O
733	A flexible and conductive connection introduced by cross-linked CNTs between submicron Si@C particles for better performance LIB anode. 2021 , 3, 2287-2294		2
732	Modeling ionic intercalation and solid-state diffusion using typical descriptors of batteries. 2021 , 51, 703-713		1
731	CNTs/LiVO/YO Composites with Enhanced Electrochemical Performances as Cathode Materials for Rechargeable Solid-State Lithium Metal Batteries. 2021 , 13, 8219-8228		
730	Correlating capacity fade with film resistance loss in fast charging of lithium-ion battery. <i>Journal of Power Sources</i> , 2021 , 485, 229360	8.9	11
729	Structure stability, electronic property and voltage profile of LiFe1BNnP1BMmO4 olivine cathode material. 2021 , 40, 3512-3519		0
728	Robust Lyapunov based Observer for Estimation of SoC of Lithium-Ion Battery. 2021,		
727	Harnessing Interfacial Electron Transfer in Redox Flow Batteries. 2021, 5, 360-378		7
726	Porous Manganese Oxide Networks as High-Capacity and High-Rate Anodes for Lithium-Ion Batteries. 2021 , 14, 1299		1
725	Design and testing of an air battery. 2021 , 655, 012031		
724	NiCo2S4/S Composites Used as Cathode Materials in Lithium-Sulfur Batteries with High Performance. 2021 , 16, 2150029		O
723	Novel method to Estimate SoH of Lithium-Ion Batteries. 2021,		0
722	Modern Nanocomposites and Hybrids as Electrode Materials Used in Energy Carriers. 2021 , 11,		7
721	Understanding the Electrolytes of LithiumBulfur Batteries. 2021 , 4, 1064-1095		7
720	Battery lifetime prediction and performance assessment of different modeling approaches. 2021 , 24, 102060		16

719	Model Studies on the Formation of the Solid Electrolyte Interphase: Reaction of Li with Ultrathin Adsorbed Ionic-Liquid Films and Co O (111) Thin Films. 2021 , 22, 441-454	6
718	Subsurface and surface halophile communities of the chaotropic Salar de Uyuni. 2021 , 23, 3987-4001	2
717	Polymer Electrolytes in Strong External Electric Fields: Modification of Structure and Dynamics. 2021 , 54, 2256-2265	2
716	Single-Ion Conducting Polymer Electrolytes for Solid-State Lithium Metal Batteries: Design, Performance, and Challenges. 2021 , 11, 2003836	71
715	Investigation of the Applicability of Helium-Based Cooling System for Li-Ion Batteries. 2021 , 2, 135-148	4
714	Theoretical investigation of the intercalation mechanism of VS2/MXene heterostructures as anode materials for metal-ion batteries. 2021 , 543, 148772	13
713	Modeling of Chemo-Mechanical Multi-Particle Interactions in Composite Electrodes for Liquid and Solid-State Li-Ion Batteries. 2021 , 168, 030515	6
712	The study of Co2+ on waste lithium-ion batteries with acid leaching. 2021 , 692, 032018	
711	Hybrid gel polymer electrolyte based on 1-methyl-1-Propylpyrrolidinium Bis(Trifluoromethanesulfonyl) imide for flexible and shape-variant lithium secondary batteries. 2021 , 621, 119018	16
710	Recent advances in semimetallic pnictogen (As, Sb, Bi) based anodes for sodium-ion batteries: Structural design, charge storage mechanisms, key challenges and perspectives. 2021 , 14, 3690	10
709	Electrochemical performance and structural stability of layered LiNiCoMn oxide cathode materials in different voltage ranges. 2021 , 47, 8490-8497	1
708	Functionalized gel polymer electrolyte membrane for high performance Li metal batteries. 2021 , 361, 115572	2
707	High-Energy Nickel-Cobalt-Aluminium Oxide (NCA) Cells on Idle: Anode- versus Cathode-Driven Side Reactions. 2021 , 4, 934-947	5
706	Characterization of Technological Innovations in Photovoltaic Rural Electrification, Based on the Experiences of Bolivia, Peru, and Argentina: Third Generation Solar Home Systems. 2021 , 13, 3032	7
705	Life cycle assessment of a novel bipolar electrodialysis-based flow battery concept and its potential use to mitigate the intermittency of renewable energy generation. 2021 , 35, 102339	9
704	CoreBhell Structure of a Polypyrrole-Coated Phosphorus/Carbon Nanotube Anode for High-Performance Lithium-Ion Batteries. 2021 , 4, 4112-4118	9
703	Core-Multishell-Structured Digital-Gradient Cathode Materials with Enhanced Mechanical and Electrochemical Durability. 2021 , 17, e2100040	4
702	Improving the Dispersion Behavior of Organic Components in Water-Based Electrode Dispersions for Inkjet Printing Processes. 2021 , 11, 2242	1

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701	Pouch-type hybrid Li-air battery enabled by flexible composite lithium-ion conducting membrane. Journal of Power Sources, 2021 , 489, 229431	6
700	Poly(Vinylidene Fluoride- co-Hexafluoropropylene) (PVdF-co-HFP)-Based Gel Polymer Electrolyte for Lithium-Ion Batteries. 2021 , 133-148	
699	Evaluating Degradation Coefficients from Existing System Models. 2021 , 2, 159-173	1
698	Mapping the knowledge domains of new energy vehicle safety: Informetrics analysis-based studies. 2021 , 35, 102275	3
697	A Comprehensive Review on Metal-Oxide Nanocomposites for High-Performance Lithium-Ion Battery Anodes. 2021 , 35, 6420-6442	19
696	Opportunities for the State-of-the-Art Production of LIB Electrodes Review. 2021, 14, 1406	16
695	Optimization of Lithium-Ion Battery Pouch Cell for Maximization of Energy Density while Preventing Internal Short Circuit Caused by Separator Failure under Crush Load. 2021 , 168, 030536	3
694	Activated carbon from pyrolysis of peanut shells as cathode for lithium-sulfur batteries. 2021 , 146, 105971	9
693	Aging Simulation of Electric Vehicle Battery Cell Using Experimental Data.	O
692	Performance reliability analysis and optimization of lithium-ion battery packs based on multiphysics simulation and response surface methodology. <i>Journal of Power Sources</i> , 2021 , 490, 229567	2
691	Reduced-order electrochemical model for lithium-ion battery with domain decomposition and polynomial approximation methods. 2021 , 221, 119662	19
690	Recent Progress in Layered Manganese and Vanadium Oxide Cathodes for Zn-Ion Batteries. 2021 , 9, 2100011	6
689	Synthesis and Ionic Conductivity of LiZr2(VO4)x(PO4)3 [k. 2021 , 57, 388-394	
688	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO2. 2021 , 125, 8947-8958	2
687	Ion Pairing, Clustering and Transport in a LiFSI-TMP Electrolyte as Functions of Salt Concentration using Molecular Dynamics Simulations. 2021 , 168, 040511	6
686	Impact of mechanical stiffening and softening on the spatial distribution of lithium ions in spherical electrode particle under galvanostatic charging. 2021 , 45, 15569-15576	1
685	An ionic liquid-assisted route towards SnS2 nanoparticles anchored on reduced graphene oxide for lithium-ion battery anode. 2021 , 296, 122022	1
684	. 2021,	

683	Recent progress in conjugated microporous polymers for clean energy: Synthesis, modification, computer simulations, and applications. 2021 , 115, 101374	28
682	Recent advances in anode materials for potassium-ion batteries: A review. 1	23
681	Fluoride in the SEI Stabilizes the Li Metal Interface in Li-S Batteries with Solvate Electrolytes. 2021 , 13, 18865-18875	4
680	Effect of dynamic loads and vibrations on lithium-ion batteries. 146134842110081	1
679	Robust lithium storage of block copolymer-templated mesoporous TiNb2O7 and TiNb2O7@C anodes evaluated in half-cell and full-battery configurations. 2021 , 379, 138179	13
678	Research and Development on the Separators of Li-ion Batteries. 2021 , 770, 012011	O
677	Lithium Battery Health Status Assessment Method Based on Failure Physical Model. 2021,	1
676	Offline multiobjective optimization for fast charging and reduced degradation in lithium ion battery cells. 2021 ,	O
675	Comparative analysis of thermal runaway characteristics of lithium-ion battery under oven test and local high temperature.	1
674	Degradation Behavior, Biocompatibility, Electrochemical Performance, and Circularity Potential of Transient Batteries. 2021 , 8, 2004814	15
673	From material properties to multiscale modeling to improve lithium-ion energy storage safety. 2021 , 46, 402-409	1
672	MOF derived double-carbon layers boosted the lithium/sodium storage performance of SnOnanoparticles. 2021 , 32,	2
671	Electrospun PAN/cellulose composite separator for high performance lithium-ion battery. 2021 , 27, 2955-296	554
670	Hybrid twin-metal aluminumhagnesium electrolytes for rechargeable batteries. <i>Journal of Power Sources</i> , 2021 , 493, 229681	6
669	Theoretical study of the low-lying doublet and quartet electronic states of 7Li16O molecule including spin-orbit coupling effect and a new limit to the adiabatic ionization energy. 2021 , 545, 111123	2
668	Electrochemical Characterization of Battery Materials in 2-Electrode Half-Cell Configuration: A Balancing Act Between Simplicity and Pitfalls. 2021 , 4, 1310-1322	7
667	The correlation between structure and thermal properties of nickel-rich ternary cathode materials: a review. 2021 , 27, 3207-3217	1
666	Forecasting the development trend of low emission vehicle technologies: Based on patent data. 2021 , 166, 120651	18

(2021-2021)

665	Mechanisms and Properties of Bismuthene and Graphene/Bismuthene Heterostructures as Anodes of Lithium-/Sodium-Ion Batteries by First-Principles Study. 2021 , 125, 11391-11401	1
664	Dynamics of Lithium Insertion in Electrochromic Titanium Dioxide Nanocrystal Ensembles. 2021 , 143, 8278-8294	7
663	Overview of the Structure-Dynamics-Function Relationships in Borohydrides for Use as Solid-State Electrolytes in Battery Applications. 2021 , 26,	1
662	Silicon Single Walled Carbon Nanotube-Embedded Pitch-Based Carbon Spheres Prepared by a Spray Process with Modified Antisolvent Precipitation for Lithium Ion Batteries. 2021 , 35, 9705-9713	4
661	Theoretical analysis of transient solution phase concentration field in a porous composite electrode with time-dependent flux boundary condition. 2021 , 51, 1241-1252	1
660	Lithium-Metal Batteries Using Sustainable Electrolyte Media and Various Cathode Chemistries. 2021 , 35, 10284-10292	3
659	Recent developments of Na4M3(PO4)2(P2O7) as the cathode material for alkaline-ion rechargeable batteries: challenges and outlook. 2021 , 37, 243-273	10
658	Electrochemical Oscillation during Galvanostatic Charging of LiCrTiO in Li-Ion Batteries. 2021, 14,	1
657	Research on control strategy of retired battery cascade utilization in 5g base station. 2021,	1
656	Isovalent vs. aliovalent transition metal doping of zinc oxide lithium-ion battery anodes In-depth investigation by ex situ and operando X-ray absorption spectroscopy. 2021 , 20, 100478	3
655	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. 2021 , 33,	12
654	Enhanced rate performance of the mortar-like LiFePO4/C composites combined with the evenly coated of carbon aerogel. 2021 , 867, 158776	4
653	Machine Learning Screening of Metal-Ion Battery Electrode Materials. 2021 , 13, 53355-53362	7
652	Pseudocapacitive and Ion-Insertion Materials: A Bridge between Energy Storage, Electronics and Neuromorphic Computing. 2021 , 8, 2630-2633	1
651	Challenges for sustainable lithium supply: A critical review. 2021 , 300, 126954	13
650	The Importance of Optical Fibres for Internal Temperature Sensing in Lithium-ion Batteries during Operation. 2021 , 14, 3617	3
649	Tuning (003) interplanar space by boric acid co-sintering to enhance Li+ storage and transfer in Li(Ni0.8Co0.1Mn0.1)O2 cathode. 2021 , 865, 158806	6
648	Progress in thermal stability of all-solid-state-Li-ion-batteries. 2021 , 3, 827-853	22

647	Preparation and electrochemical properties of polymer electrolyte containing lithium difluoro(oxalato)borate or lithium bis(oxalate)borate for Li-ion polymer batteries. 2021 , 364, 115628	3
646	Silicon-doped FeOOH nanorods@graphene sheets as high-capacity and durable anodes for lithium-ion batteries. 2021 , 550, 149330	9
645	Hybrid Bar-Delta Filter-Based Health Monitoring for Multicell Lithium-Ion Batteries using an Internal Short-Circuit Cell Model. 2021 ,	
644	Recent Development of Electrocatalytic CO Reduction Application to Energy Conversion. 2021 , 17, e2100323	12
643	Recent Advances in Transition Metal Dichalcogenide Cathode Materials for Aqueous Rechargeable Multivalent Metal-Ion Batteries. 2021 , 11,	5
642	An Unmanned Lighter-Than-Air Platform for Large Scale Land Monitoring. 2021 , 13, 2523	2
641	Drying of lithium-ion battery negative electrode coating: Estimation of transport parameters. 1-11	
640	Ion Transport and Electrochemical Properties of Fluorine-Free Lithium-Ion Battery Electrolytes Derived from Biomass. 2021 , 9, 7769-7780	4
639	Recent advances in acoustic diagnostics for electrochemical power systems. 2021 , 3, 032011	9
638	Three-dimensional porous Co3O4 hexagonal plates grown on nickel foam as a high-capacity anode material for lithium-ion batteries. 2021 , 551, 148942	8
637	Closely Coupled Binary Metal Sulfide Nanosheets Shielded Molybdenum Sulfide Nanorod Hierarchical Structure via Eco-Benign Surface Exfoliation Strategy towards Efficient Lithium and Sodium-ion Batteries. 2021 , 38, 344-353	8
636	Nanocomposites of multi-walled carbon nanotubes/cobalt ferrite Nanoparticles: Synthesis, structural, dielectric and impedance spectroscopy. 2021 , 866, 158750	7
635	Research on energy densities of secondary batteries. 2021 , 791, 012104	
634	Enhanced and stabilized charge transport boosting by Fe-doping effect of V2O5 nanorod for rechargeable Zn-ion battery. 2021 , 99, 344-351	8
633	Synthesis of Nickel Fumarate and Its Electrochemical Properties for Li-Ion Batteries. 2021 , 2, 439-451	3
632	Enhanced high-temperature performance and thermal stability of lithium-rich cathode via combining full concentration gradient design with surface spinel modification. 2021 , 415, 129042	4
631	Theoretical studies on the initial oxidation of metallic lithium anodes. 2021 , 555, 149447	1
630	Enhanced Thermal Stability and Electrochemical Performance of Polyacrylonitrile/Cellulose Acetate-Electrospun Fiber Membrane by Boehmite Nanoparticles: Application to High-Performance Lithium-Ion Batteries. 2100300	4

615

614

613

612

cathode for Li-S battery. 2021, 384, 138265

Spent Lithium-Ion Batteries. 2021, 7, 1027-1044

Impact of SOC Estimation on Primary Frequency Regulation for Sustainable Grid Energy Storage 629 System. 2022, 1067-1075 Intercalation of Lithium inside Bilayer Buckled Borophene: A First Principles Prospective. 2021, 168, 070535 628 In-situ UV cured acrylonitrile grafted epoxidized natural rubber (ACN-g-ENR) LiTFSI solid polymer 627 3 electrolytes for lithium-ion rechargeable batteries. 2021, 164, 104938 Anion Coordination Improves High-Temperature Performance and Stability of NaPF6-Based 626 Electrolytes for Supercapacitors. **2021**, 14, 4409 Effective Solid Electrolyte Interphase Formation on Lithium Metal Anodes by Mechanochemical 625 2 Modification, 2021, 13, 34227-34237 Translational and Reorientational Dynamics of Ionic Liquid-Based Fluorine-Free Lithium-Ion Battery 624 Electrolytes. **2021**, 117001 Improvement of Cyclic Stability of Na0.67Mn0.8Ni0.1Co0.1O2 via Suppressing Lattice Variation. 623 1 **2021**, 38, 076102 A review of thermal management for Li-ion batteries: Prospects, challenges, and issues. 2021, 39, 102518 622 A journey through layered cathode materials for lithium ion cells From lithium cobalt oxide to 621 11 lithium-rich transition metal oxides. 2021, 869, 159239 Supercritical CO2-Assisted SiOx/Carbon Multi-Layer Coating on Si Anode for Lithium-Ion Batteries. 620 14 2021, 31, 2104135 Modification of LiNi0.8Co0.1Mn0.1O2 cathode materials from the perspective of chemical 619 8.9 3 stabilization and kinetic hindrance. Journal of Power Sources, 2021, 499, 229756 Sepiolite-Assisted Separator Modification Process for High-Voltage LiNi0.5Mn1.5O4 Batteries and 618 the Influence on Electrodes. **2021**, 60, 11117-11127 Detection of Lithium Plating in Li-Ion Cell Anodes Using Realistic Automotive Fast-Charge Profiles. 617 2 2021, 7, 46 Identification of LixSn Phase Transitions During Lithiation of Tin Nanoparticle-Based Negative 616 2 Electrodes from Ex Situ 119Sn MAS NMR and Operando 7Li NMR and XRD. 2021, 4, 7278-7287 Effect of morphology of C-rich silicon carbonitride ceramic on electrochemical properties of sulfur

Residue grouping order reduction method in solid-phase lithium-ion battery models. 2021, 51, 1635

Selective Recovery of Cobalt and Fabrication of Nano-Co3S4 from Pregnant Leach Solution of

Li-based all-carbon dual-ion batteries using graphite recycled from spent Li-ion batteries. 2021, 28, e00262

3

3

2

611	Suitable binder for Li-ion battery anode produced from rice husk. 2021 , 11, 15784	3
610	Revisiting lithium-storage mechanisms of molybdenum disulfide. 2021 ,	2
609	PROPORTIONAL EFFECT IN SbSi/N-DOPED GRAPHENE NANOCOMPOSITE PREPARATION FOR HIGH-PERFORMANCE LITHIUM-ION BATTERIES. 2150105	1
608	Molecular Layer Deposition of Alucone Thin Film on LiCoO2 to Enable High Voltage Operation. 2021 , 4, 1739	3
607	Battery cycle life study through relaxation and forecasting the lifetime via machine learning. 2021 , 40, 102726	6
606	Electrodeposition of Zinc onto Au(111) and Au(100) from the Ionic Liquid [MPPip][TFSI]. 2021 , 133, 20624-20	631
605	The potential of lithium in Quebec for the electric vehicle market: state of the art, opportunities and challenges. 1-13	3
604	Modified Li7La3Zr2O12 (LLZO) and LLZO-polymer composites for solid-state lithium batteries. 2021 , 39, 108-129	20
603	Valorization of a spent lithium-ion battery electrolyte through syngas formation using CO2-assisted catalytic thermolysis over a battery cathode material. 2021 , 50, 101591	2
602	Fracture behavior of solid electrolyte LATP material based on micro-pillar splitting method. 2021 , 41, 5240-5247	1
601	Controlling MoO2 and MoO3 phases in MoOx/CNTs nanocomposites and their application to anode materials for lithium-ion batteries and capacitors. 2021 , 388, 138635	8
600	Xylitol-assisted ball milling of graphite to prepare long-cycle and high-capacity graphene nanosheet as lithium-ion anode materials. 2021 , 56, 18200-18209	1
599	Improved parameter identification and state-of-charge estimation for lithium-ion battery with fixed memory recursive least squares and sigma-point Kalman filter. 2021 , 387, 138501	10
598	Zn(ClO4)2 aqueous solutionBased Zn thin foil carbon cloth two-electrode single-cell characteristics. 1	2
597	Pseudocapacitors.	1
596	A Review of Hybrid Electric Architectures in Construction, Handling and Agriculture Machines.	4
595	Electrodeposition of Zinc onto Au(111) and Au(100) from the Ionic Liquid [MPPip][TFSI]. 2021 , 60, 20461-204	—— 68 ₃
594	Effect of particle size in Li4Ti5O12 (LTO)-LiMn2O4 (LMO) batteries: a numerical simulation study. 2021 , 25, 2395-2408	

593	Studies on 2D-molybdenum diselenide (MoSe2) based electrode materials for supercapacitor and batteries: A critical analysis. 2021 , 40, 102809	8
592	Mn-N-C Nanostructure Derived from MnO2-x/PANI as Highly Performing Cathode Additive in Li-S Battery. 2021 , 2, 275-286	
591	Synthesis of High-Performance Hard Carbon from Waste Coffee Ground as Sodium Ion Battery Anode Material: A Review. 1044, 25-39	
590	Study of the Lithium Storage Mechanism of N-Doped Carbon-Modified Cu S Electrodes for Lithium-Ion Batteries. 2021 , 27, 13774-13782	2
589	Lithium-ion mobility in layered oxides Li2Ca1.5Nb3O10, Li2Ca1.5TaNb2O10 and Li2Ca1.5Ta2NbO10, enhanced by supercell formation. 2021 , 60, 75-84	1
588	The effect of electrochemically inactive Ti substituted for Ru in Li2Ru1-Ti O3 on structure and electrochemical performance. 2021 , 60, 222-228	O
587	Dopamine-modified carboxymethyl cellulose as an improved aqueous binder for silicon anodes in lithium-ion batteries. 2021 , 389, 138806	6
586	A high-performance solid electrolyte assisted with hybrid biomaterials for lithium metal batteries. 2022 , 608, 313-321	6
585	Aging Behavior of Lithium Titanate Battery under High-Rate Discharging Cycle. 2021 , 14, 5482	3
584	Developing eco-friendly ceramic composite separator with competitive electrochemical properties using water-based polymer binder for lithium-ion batteries.	1
583	State of Health Estimation of Lithium-Ion Batteries Based on Electrochemical Impedance Spectroscopy and Backpropagation Neural Network. 2021 , 12, 156	1
582	Hierarchically structured V2O3/C microspheres: Synthesis, characterization, and their electrochemical properties. 2021 , 390, 138881	0
581	Impedance-based diagnosis of internal mechanical damage for large-format lithium-ion batteries. 2021 , 230, 120855	2
580	Electrolytes Polymerization-Induced Cathode-Electrolyte-Interphase for High Voltage Lithium-Ion Batteries. 2021 , 11, 2101956	5
579	The triad Blectrode Bolid electrolyte interphase Belectrolyte a ground for the use of conversion type reactions in lithium-ion batteries. 2021 , 12, 226-279	
578	Sifting weakly-coordinated solvents within solvation sheath through an electrolyte filter for high-voltage lithium-metal batteries. 2021 ,	3
577	Advances in multi-functional flexible interlayers for LiB batteries and metal-based batteries. 2021 , 28, 102566	2
576	Quantitative analysis on the heat transfer modes in the process of thermal runaway propagation in lithium-ion battery pack under confined and semi-confined space. 2021 , 176, 121483	6

575	Garnet-type solid electrolyte: Advances of ionic transport performance and its application in all-solid-state batteries. 2021 , 10, 933	10
574	Directional LiFePO4 cathode structure by freeze tape casting to improve lithium ion diffusion kinetics. <i>Journal of Power Sources</i> , 2021 , 506, 230052	5
573	Materials design and fundamental understanding of tellurium-based electrochemistry for rechargeable batteries. 2021 , 40, 166-188	6
572	Solvent-Free Procedure to Prepare Ion Liquid-Immobilized Gel Polymer Electrolytes Containing LiLaTiO with High Performance for Lithium-Ion Batteries. 2021 , 6, 25329-25337	O
571	Synthesis and characterization of mono-dispersion LiNi0.8Co0.1Mn0.1O2 micrometer particles for lithium-ion batteries. 2021 , 47, 25680-25688	6
570	A straightforward fabrication of solid-state lithium secondary batteries based on multi-functional poly(arylene ether sulfone)-g-poly(ethylene glycol) material. <i>Journal of Power Sources</i> , 2021 , 507, 230288.9	1
569	Characterization of Thermal-Runaway Particles from Lithium Nickel Manganese Cobalt Oxide Batteries and Their Biotoxicity Analysis.	0
568	An Electrochemical-Mechanical Phase Field Model for Lithium Dendrite. 2021 , 168, 090522	1
567	Three-dimensional printing of graphene-based materials for energy storage and conversion. 2021 , 1, 304-323	16
566	A crystalline dihydroxyanthraquinone anodic material for proton batteries. 2021 , 22, 100872	2
565	Visualizing lithium ions in the crystal structure of Li3PO4 by in situ neutron diffraction. 2021 , 54, 1409-1415	0
564	Efficiency Analysis of Various Batteries with Real-time Data on a Hybrid Electric Vehicle. 214-223	1
563	Solution Phase Limited Diffusion Modeling in a Li-ion Cell Subject to Concentration-Dependent Pore Wall Flux. 2021 , 168, 090511	1
562	Stabilizing a Si Anode via an Inorganic Oligomer Binder Enabled by Robust Polar Interfacial Interactions. 2021 , 13, 44312-44320	4
561	Scope of Ferrocene in Cathodic Materials of Lithium-Ion Batteries (LIBs): A Review. 2021 , 50, 6073-6086	1
560	A review of technologies and applications on versatile energy storage systems. 2021 , 148, 111263	46
559	More on methods to measure the energetics of lithium ion batteries in thermal runaway. 2021 , 124, 103382	4
558	Reviving of silicon waste with N-doped carbon core-shell structure prepared by vapor deposition polymerization of polypyrrole applied in lithium-ion battery. 2021 , 421, 127418	2

Effects of SiO2 particles in copper current collector on diffusion induced stresses in layered Li-ion 557 battery electrodes. 095440622110036 Real-time Imaging of the Electric Conductivity Distribution inside a Rechargeable Battery Cell. 2021 556 , 89, 420-426 Computational study of the electrostatic potential and charges of multivalent ionic liquid 555 2 molecules. 2021, 340, 117190 ZnIn2S4: A promising anode material with high electrochemical performance for sodium-ion 554 batteries. 2021, 47, 28634-28641 Mg2Si promoted magnesio-mechanical reduction of silica into silicon nanoparticles for 553 3 high-performance Li-ion batteries. 2021, 302, 122408 Mitigation strategies for Li-ion battery thermal runaway: A review. 2021, 150, 111437 552 20 Preventing thermal propagation in battery packs using enthalpy supported thermal barriers. 2021, 2 551 42, 103057 Importance of structures and interactions in ionic liquid-nanomaterial composite systems as a novel 550 approach for their utilization in safe lithium metal batteries: A review. 2021, 339, 116736 Carbon-based materials for fast charging lithium-ion batteries. 2021, 183, 721-734 549 24 A review of advanced separators for rechargeable batteries. Journal of Power Sources, 2021, 509, 230372.9 548 14 Uniformly inserted Fe3C nanoparticles in sericin-derived hierarchical porous carbon for 547 9 high-performance Li-ion battery. 2021, 881, 160661 Towards high-performance cathodes: Design and energy storage mechanism of vanadium 546 14 oxides-based materials for aqueous Zn-ion batteries. 2021, 446, 214124 Non-invasive identification of calendar and cyclic ageing mechanisms for lithium-titanate-oxide 545 4 batteries. 2021, 42, 794-805 Enhancing the electrochemical performance of silicon anodes for lithium-ion batteries: One-pot 544 solid-state synthesis of Si/Cu/Cu3Si/C electrode. 2021, 567, 150868 Lithium bis(trifluoromethanesulfonyl)imide blended in polyurethane acrylate photocurable solid 543 4 polymer electrolytes for lithium-ion batteries. 2021, 62, 485-496 Enhancing rate capability of graphite anodes for lithium-ion batteries by pore-structuring. 2021, 6, 100168 542 Analyzing challenges for sustainable supply chain of electric vehicle batteries using a hybrid 8 541 approach of Delphi and Best-Worst Method. 2021, 175, 105879 Progress and perspectives on typical inorganic solid-state electrolytes. 2021, 885, 161013 540

539	Offline Multiobjective Optimization for Fast Charging and Reduced Degradation in Lithium-Ion Battery Cells Using Electrochemical Dynamics. 2021 , 5, 2066-2071	4
538	Thermal kinetics comparison of delithiated Li[Ni Co Mn]O2 cathodes. <i>Journal of Power Sources</i> , 8.9	6
537	Lithium battery enhanced by the combination of in-situ generated poly(ionic liquid) systems and TiO2 nanoparticles. 2022 , 641, 119891	2
536	Nanostructured 3D (three dimensional) electrode architectures of silicon for high-performance Li-ion batteries. 2022 , 331-371	
535	Characteristics of a gold-doped electrode for application in high-performance lithium-sulfur battery. 2022 , 64, 116-128	3
534	Quasi-solid-state lithium-tellurium batteries based on flexible gel polymer electrolytes. 2022 , 605, 547-555	2
533	Research on Thermal Management System of Liquid Direct Contact Battery. 632, 032068	
532	Electrospun Polyacrylonitrile (PAN)-Based Polymer Gel Electrolytes for Lithium-Ion Batteries. 2021 , 121-152	1
531	Nanomaterials and nanotechnology for high-performance rechargeable battery. 2021, 343-363	3
530	Highly stretchable, non-flammable and notch-insensitive intrinsic self-healing solid-state polymer electrolyte for stable and safe flexible lithium batteries. 2021 , 9, 4758-4769	27
529	Application of LiMn2O4 Nanostructures as Efficient Cathodes for Energy Storage Devices. 2021 , 204-228	
528	Property of Rare-earth-doped LiFePO4 from first-principles calculations. 2021 , 0-0	O
527	An in situ photopolymerized composite solid electrolyte from halloysite nanotubes and comb-like polycaprolactone for high voltage lithium metal batteries. 2021 , 9, 9826-9836	7
526	A Dirac nodal surface semi-metallic carbon-based structure as a universal anode material for metal-ion batteries with high performance. 2021 , 23, 18744-18751	1
525	A low-cost and high-loading viologen-based organic electrode for rechargeable lithium batteries 2021 , 11, 24429-24435	3
524	Fundamental Linkage Between Structure, Electrochemical Properties, and Chemical Compositions of LiNiMnCoO Cathode Materials. 2021 , 13, 2622-2629	14
523	Graphene for Energy Solutions and its Printable Applications. 191-236	1
522	Improving the Cyclic Stability of LiNi0.5Mn1.5O4 at High Cutoff Voltage by Using Pyrene as a Novel Additive. 2020 , 8, 2000671	3

521	Renewability of Energy Resources, Energy Vectors, and Energy Technologies for Mobility. 2013, 1043-1064	3
520	Electric Vehicles, Lightweight Design and Environmental Impacts. 2017 , 9-40	8
519	A Critical Evaluation of Cathode Materials for Lithium-Ion Electric Vehicle Batteries. 2019 , 99-110	3
518	Materialien und Funktion. 2013 , 21-29	1
517	Materials and function. 2018 , 21-28	3
516	Effects of Co doping sites on the electrochemical performance of LiNi0.5Mn1.5O4 as a cathode material. 2020 , 26, 3777-3783	5
515	Chemical composition and formation mechanisms in the cathode-electrolyte interface layer of lithium manganese oxide batteries from reactive force field (ReaxFF) based molecular dynamics. 2017 , 11, 365-373	6
514	Novel Smart Photocatalysis for Energy Production and Environment Applications. 2020 , 635-635	O
513	Recent advances in prelithiation materials and approaches for lithium-ion batteries and capacitors. 2020 , 32, 497-516	55
512	Zeolitic imidazolate frameworks derived Co nanoparticles anchored on graphene as superior anode material for lithium ion batteries. 2017 , 716, 156-161	16
511	Semi-empirical long-term cycle life model coupled with an electrolyte depletion function for large-format graphite/LiFePO 4 lithium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 365, 257-265	33
510	Boosting reaction kinetics and reversibility in Mott-Schottky VS2/MoS2 heterojunctions for enhanced lithium storage. 2020 , 65, 1470-1478	29
509	Silicon Few-Layer Graphene Nanocomposite as High-Capacity and High-Rate Anode in Lithium-Ion Batteries. 2019 , 2, 1793-1802	20
508	Metal-organic frameworks (MOFs) derived carbon-coated NiS nanoparticles anchored on graphene layers for high-performance Li-S cathode material. 2020 , 31, 485404	6
507	Spin-glass charge ordering in ionic liquids. 2019 , 3,	8
506	Boosting ionic conductivity in antiperovskite Li3OCl via defect engineering: Interstitial versus vacancy. 2019 , 3,	7
505	Remaining Useful Life Prediction of Lithium-Ion Batteries Based on Conditional Variational Autoencoders-Particle Filter. 2020 , 69, 8831-8843	31
504	Multi-Layer Graphene/SnO2 Nanocomposites as Negative Electrode Materials for Lithium-Ion Batteries. 2020 , 17,	1

503	Modeling of Thermal Propagation Based on Two Cylindrical Lithium-Ion Cells. 2020, 17,	1
502	Synthesis of Hollow Microspheres LiNi0.5Mn1.5O4 Coated With Al2O3 and Characterization of the Electrochemical Capabilities. 2020 , 17,	4
501	Coupling Effect of State-of-Charge and Strain Rate on the Mechanical Behavior of Electrodes of 21700 Lithium-Ion Battery. 2021 , 18,	5
500	Modifications of Separators for LiB Batteries with Improved Electrochemical Performance. 2020 , 56, 365-377	8
499	Communication R edox Behavior of Cu2S in Li2S-Dissolving Aprotic Electrolyte for Sulfide-Ion Batteries. 2020 , 167, 122504	1
498	A Suite of Reduced-Order Models of a Single-Layer Lithium-Ion Pouch Cell. 2020 , 167, 140513	11
497	Stable Cyclability Caused by Highly Dispersed Nanoporous Si Composite Anodes with Sulfide-based Solid Electrolyte. 2020 , 167, 140522	5
496	Degradation-Safety Analytics in Lithium-Ion Cells: Part I. Aging under Charge/Discharge Cycling. 2020 , 167, 160510	10
495	ReviewBolymer/Ceramic Interface Barriers: The Fundamental Challenge for Advancing Composite Solid Electrolytes for Li-Ion Batteries. 2020 , 167, 160514	13
494	Electrochemical Performance of Anatase TiO2Nanotube Arrays Electrode in Ionic Liquid Based Electrolyte for Lithium Ion Batteries. 2017 , 164, H5100-H5107	14
493	SOLAR AIR CONDITIONING SYSTEMS. 2017 , 2, 58-62	1
492	Effect of Humidity on Electrical Conductivity of Graphite Nanocomposite Based Electrodes: A Review. 2020 , 17, 08-15	3
491	Soluble Polyimide Binder for Silicon Electrodes in Lithium Secondary Batteries. 2015 , 26, 674-680	2
490	Highlands in Transition: Urbanization, Pastoralism, Mining, Tourism, and Wildlife in the Argentinian Puna. 2018 , 38, 390	11
489	Stability of Solid-State Sintered Li1.5Al0.5Ge1.5(PO4)3 Solid Electrolytes in Various Mediums for All Solid-State Li-ion Batteries.	1
488	Incremental Capacity Analysis as a State of Health Estimation Method for Lithium-Ion Battery Modules with Series-Connected Cells. 2021 , 7, 2	4
487	Possibilities and Challenges for the Inclusion of the Electric Vehicle (EV) to Reduce the Carbon Footprint in the Transport Sector: A Review. 2020 , 13, 2602	65
486	The Effect of Tab Attachment Positions and Cell Aspect Ratio on Temperature Difference in Large-Format LIBs Using Design of Experiments. 2021 , 14, 116	2

(2021-2016)

485	Surface-modified Li[Ni0.8Co0.15Al0.05]O2 Cathode Fabricated using Polyvinylidene Fluoride as a Novel Coating. 2016 , 7, 263-268	3
484	Enhanced Cathode/Sulfide Electrolyte Interface Stability Using an Li2ZrO3 Coating for All-Solid-State Batteries. 2018 , 9, 176-183	15
483	Carbon-free Polymer Air Electrode based on Highly ConductivePEDOT Micro-Particles for Li-O2 Batteries. 2018 , 9, 220-228	3
482	Preparation and Characterization of PEO-LATP/LAGP Ceramic Composite Electrolyte Membrane for Lithium Batteries. 2012 , 27, 249-252	7
481	SYNTHESIS OF HBPS-PEO MULTI-ARM STAR POLYMER ELECTROLYTES AND THEIR IONIC CONDUCTIVITY. 2013 , 013, 1064-1071	1
480	Fuel Cell-Based Powertrain Analysis for Tramway Systems.	2
479	Review of Power Device for Solar-Powered Aircraft Applications.	5
478	Study on electrochemical performances of sulfur-containing graphene nanosheets electrodes for lithium-sulfur cells. 2014 , 15, 113-116	2
477	Development of an Optimized Algorithm for Bidirectional Equalization in Lithium-Ion Batteries. 2015 , 15, 775-785	14
476	Molecular dynamics simulation of average velocity of lithium iron across the end of carbon nanotube. 2014 , 63, 200508	1
475	Relaxation behavior simulation of power lithium-ion battery in high-rate charging-discharging process. 2016 , 65, 058201	1
474	A highly conductive quasi-solid-state electrolyte based on helical silica nanofibers for lithium batteries 2021 , 11, 33858-33866	O
473	Porous Ultrathin W-Doped VO2 Nanosheets Enable Boosted Zn2+ (De)Intercalation Kinetics in VO2 for High-Performance Aqueous Zn-Ion Batteries. 2021 , 9, 14193-14201	6
472	High-Performance Room Temperature Lithium-Ion Battery Solid Polymer Electrolytes Based on Poly(vinylidene fluoridehexafluoropropylene) Combining Ionic Liquid and Zeolite. 2021 , 13, 48889-48900	2
471	Modeling and Control of a Phase-Shifted Full-Bridge Converter for a LiFePO4 Battery Charger. 2021 , 10, 2568	4
470	Toad egg-like bismuth nanoparticles encapsulated in an N-doped carbon microrod via supercritical acetone as anodes in lithium-ion batteries. 2021 ,	O
469	Thermal, Mechanical, and Ion-Conductive Properties of Crosslinked Poly[(ethylene carbonate)-co-(ethylene oxide)]-Lithium Bis(fluorosulfonyl)Imide Electrolytes. 2100327	O
468	Exploring the Interaction of Ionic Liquids with Al12N12 and Al12P12 Nanocages for Better Electrode-Electrolyte Materials in Super Capacitors. 2021 , 117828	О

467	Synthesis Methods and Applications of Semiconductor Material ZnWO4 with Multifunctions and Multiconstructions. 2021 , 9, 2100733	О
466	Biomass Porous Carbons Derived from Banana Peel Waste as Sustainable Anodes for Lithium-Ion Batteries. 2021 , 14,	1
465	Design Parameters for Enhanced Performance of Li1+xNi0.6Co0.2Mn0.2O2 at High Voltage: A Phase Transformation Study by In Situ XRD. 2021 , 168, 100526	1
464	Optimizing surface residual alkali and enhancing electrochemical performance of LiNiCoAlOcathode by LiHPO. 2021 , 33,	O
463	Cycling performance of LiFePO4/graphite batteries and their degradation mechanism analysis via electrochemical and microscopic techniques. 1	O
462	Chemical activation of nanocrystalline LiNbO3 anode for improved storage capacity in lithium-ion batteries. 2021 , 27, 101550	1
461	Hybrid Energy Storage System with Vehicle Body Integrated Super-Capacitor and Li-Ion Battery: Model, Design and Implementation, for Distributed Energy Storage. 2021 , 14, 6553	4
460	Bio-Derived Surface Layer Suitable for Long Term Cycling Ni-Rich Cathode for Lithium-Ion Batteries. 2021 , 17, e2104532	1
459	Investigation on the method of battery self-heating using motor pulse current. 095440702110550	0
458	A Review on Laser-Assisted Joining of Aluminium Alloys to Other Metals. 2021 , 11, 1680	4
457	Dynamic tunability of phase-change material transition temperatures using ions for thermal energy storage. 2021 , 2, 100613	1
456	Lithiation Mechanism and Improved Electrochemical Performance of TiSnSb-Based Negative Electrodes for Lithium-Ion Batteries.	
455	Improving Fast and Safe Transfer of Lithium Ions in Solid-State Lithium Batteries by Porosity and Channel Structure of Polymer Electrolyte. 2021 , 13, 48525-48535	26
454	Remaining useful life prediction with probability distribution for lithium-ion batteries based on edge and cloud collaborative computation. 2021 , 44, 103342	1
453	Anode Properties of Sn-Ni Nanoparticle Composites for Rechargeable Lithium Batteries. 2011 , 49, 846-850	2
452	4WD Electric Vehicle Battery Test Candidate Under Several Speeds Topologies Variations for Utility EV. 2012 , 10, 1559-1566	1
451	Encyclopedia of Applied Electrochemistry. 2014 , 1966-1970	
450	LiB Electrode Ageing Observed from PVdF Binder. 2014 , 05, 767-782	

449	Lithium Bacteries: Status and Future. 2014 , 134-175	
448	Synthesis of nanodisperse materials for lithium ion batteries. 2014 , 43-48	
447	An Evolutionary Multiobjective Optimization Approach for HEV Energy Management System. 2015 , 345-354	
446	Elektrochemische Speicher. 2015 , 157-214	
445	Fabrication of Nano-particles with High Capacity using Surfactant. 2015 , 18, 95-101	
444	Powders: Plasma Spray PVD for High-Throughput Production. 2016 , 1176-1190	1
443	Electrospinning-based Fabrication and Electrochemical Characterization of Lithium-ion Battery Electrode Materials. 2016 , 53, 428-433	
442	An Adaptive Fast Charging Strategy for LiFePO4 Battery Applied to Heavy-Haul Train ECP Brake System. 2016 , 20, 1077-1085	
441	Surface-modified Li[Ni0.8Co0.15Al0.05]O2Cathode Fabricated using Polyvinylidene Fluoride as a Novel Coating. 2016 , 7, 263-268	
440	Conducting Polymers/Inorganic Nanohybrids for Energy Applications. 2017 , 365-417	1
439	A Multi-leveled ANP-LCA Model for the Selection of Sustainable Design Options. 2017, 473-486	
438	Lithium Intercalation Materials for Battery Prepared by Sol G el Method. 2017 , 1-36	
437	SOLAR COLLECTOR IN THE SYSTEMS OF ENERGY SAVING. 2017 , 2, 145-148	
436	Functionalized Ionic Liquid-Based Electrolytes for Li-Ion Batteries. 2019 , 401-428	1
435	Advances in Cathode Nanomaterials for Lithium-Ion Batteries. 2019, 105-145	
434	Speicherung der elektrischen Energie. 2019 , 61-98	
433	Ionic Conductivity, Polymer Electrolyte, Membranes, Electrochemical Stability, Separators. 2019 , 163-193	1
432	Controllable Synthesis of N-Doped Reduced Graphene Oxide Sponge and Its Application in Li-S Batteries. 2019 , 09, 361-367	

431	3D Graphene and Its Nanocomposites: From Synthesis to Multifunctional Applications. 2019 , 363-388	1
430	Effect of Temperature and SOC on Storage Performance of Lithium Iron Phosphate Batteries. 2019 , 08, 59-64	
429	Li-ion full cell using LiFePO4 and Mn3O4-mesoporous carbon composite as electrodes for energy storage applications. 2019 ,	1
428	MODERN SYSTEM OF THE POWER SUPPLY OF THE MODULE TRANSPORT PLATFORMS OF GROUND ROBOTIC COMPLEXES FOR COVERT COMBAT ACTIONS. 2019 , 2, 33-38	
427	Fabrication of High Performance 18650-Type NCA/Graphite Cylindrical Cells. 2020,	
426	Safe Gel Polymer Electrolytes for High Voltage Li-Batteries. 2021 , 401, 139470	1
425	Polymer-Induced Inversion of the Li+ Drift Direction in Ionic Liquid-Based Ternary Polymer Electrolytes. 2100320	1
424	Lignocellulosics as a Green Material Opportunity for Energy Storage Systems. 2020 , 297-343	
423	. 2020,	
422	Surfactant-free and controllable synthesis of hierarchically lithiated MoO3 microspheres. 2021 , 16, 97-102	
422	Surfactant-free and controllable synthesis of hierarchically lithiated MoO3 microspheres. 2021 , 16, 97-102 NaVO/Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. 2020 , 14,	4
		4
421	NaVO/Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. 2020 , 14,	4 0
421 420	NaVO/Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. 2020 , 14, Study of a High Energy Density Battery Using a 3D Sulfur Electrode. 2020 , 16, 1-8	
421 420 419	NaVO/Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. 2020, 14, Study of a High Energy Density Battery Using a 3D Sulfur Electrode. 2020, 16, 1-8 Prediction of LinCd compounds with unusual stoichiometry and valence states. 2020, 4, PVDF-HFP based polymer electrolytes with high Li+ transference number enhancing the cycling	0
421 420 419 418	NaVO/Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. 2020, 14, Study of a High Energy Density Battery Using a 3D Sulfur Electrode. 2020, 16, 1-8 Prediction of LinCd compounds with unusual stoichiometry and valence states. 2020, 4, PVDF-HFP based polymer electrolytes with high Li+ transference number enhancing the cycling performance and rate capability of lithium metal batteries. 2022, 574, 151593 Research Progress on Coating and Doping Modification of Nickel Rich Ternary Cathode Materials.	0
421 420 419 418 417	NaVO/Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. 2020, 14, Study of a High Energy Density Battery Using a 3D Sulfur Electrode. 2020, 16, 1-8 Prediction of LinCd compounds with unusual stoichiometry and valence states. 2020, 4, PVDF-HFP based polymer electrolytes with high Li+ transference number enhancing the cycling performance and rate capability of lithium metal batteries. 2022, 574, 151593 Research Progress on Coating and Doping Modification of Nickel Rich Ternary Cathode Materials. 2020, 35, 972	0 6

Cone geometry optimization and thermal behavior for lithium-ion battery separators. 2020, 413 Preparation of (50-x)Li2SO4\(\text{Li2WO4B0LiPO3}\) (mol\(\text{%}\)) Glasses and Their Lithium-ion Conducting 412 Properties. 2020, 67, 158-162 Preparation of Lithium-ion Conducting Glasses in the System Li2SO4-LiPO3. 2020, 67, 153-157 411 A Short Review of Lithium-ion Battery Technology. 2020, 500-507 410 Electrodes for Potassium Oxygen Batteries. 2020, 337-355 409 Novel Statistical Analysis Approach for Remaining Useful Life Prediction of Lithium-Ion Battery. 408 2021, Emergence of elevated battery positioning in air cooled battery packs for temperature uniformity 407 3 in ultra-fast dis/charging applications. **2021**, 45, 103516 Electrochemical Performance of Graphene-Modulated Sulfur Composite Cathodes Using LiBH4 406 Electrolyte for All-Solid-State Li-S Battery. 2021, 14, 7362 Perovskite Solid-State Electrolytes for Lithium Metal Batteries. 2021, 7, 75 405 4 A dynamic mathematical model of lithum - ion battery in Matlab/Simulink. 2020, 404 In Situ X-Ray Diffraction and Alkali Ion (A = Li, Na, K) Intercalation Behavior of Na2FeP2O7 403 Pyrophosphate. 2021, 125-131 Recursos naturais de lítio. 2020, 8, 402 An iterative analytical model for aging analysis of Li-ion cells. Journal of Power Sources, 2022, 517, 230669.9 401 Integration of long-short term memory network and fuzzy logic for high-safety in a FR-ESS with 400 degradation and failure. 2022, 49, 101790 Abnormal Battery Location Recognition and State Estimation in Lithium Battery Pack. 2021, 399 Sintesis dan Karakterisasi Lihium Iron Phosphate (LiFePO4) Menggunakan Metoda Solid State 398 Reaction Sebagai Katoda Pada baterai Lithium-Ion. 2021, 14, 42-50 Electrode-Electrolyte Interactions in an Aqueous Aluminum-Carbon Rechargeable Battery System.. 397 1 2021, 11, Titanium Dioxide/Graphene Nanocomposites as High-Performance Anode Material for Lithium Ion 396 Batteries. 2022, 25-61

395	Tolerant Bimetallic Macrocyclic [OSSO]-Type Zinc Complexes for Efficient CO2 Fixation into Cyclic Carbonates.	1
394	The preparation of carbon-coated Si nanofiber deposited on carbon nanofiber/natural microcrystalline graphite as the anode for lithium-ion batteries. 2022 , 28, 657	
393	Catalytic Mo2C decorated N-doped honeycomb-like carbon network for high stable lithium-sulfur batteries. 2021 , 133683	5
392	Mg-based inorganic nanofibers constructing fast and multi-dimensional ion conductive pathways for all-solid-state lithium metal batteries. 2021 , 67, 684-684	1
391	Critical strategies for recycling process of graphite from spent lithium-ion batteries: A review. 2021 , 151621	3
390	Nanostructured Block Polymer Electrolytes: Tailoring Self-Assembly to Unlock the Potential in Lithium-Ion Batteries. 2021 , 54, 4342-4353	2
389	Confinement of TiO2 quantum dots in graphene nanoribbons for high-performance lithium and sodium ion batteries. 2021 , 898, 162856	4
388	Impedance investigation of the high temperature performance of the solid-electrolyte-interface of a wide temperature electrolyte. 2021 , 608, 3079-3079	3
387	Regulating lithium-ion flux in the solid electrolyte interphase layer to prevent lithium dendrite growth on lithium metal anode. 2021 , 47, 103668	Ο
386	Atomistic studies on water-induced lithium corrosion. 2021,	O
385	Green Warehousing: Exploration of Organisational Variables Fostering the Adoption of Energy-Efficient Material Handling Equipment. 2021 , 13, 13237	2
384	A Separator with a Novel Thermal Crosslinking Structure Based on Electrospun PI/A-POSS for Lithium-Ion Battery with High Safety and Outstanding Electrochemical Performance. 2021 , 8, 2100458	O
383	Recent advances in LiV3O8 as anode material for aqueous lithium-ion batteries: syntheses, modifications, and perspectives. 2021 , 163065	6
382	1D Mesoporous Inorganic Nanomaterials Applied in Rechargeable Batteries. 2022 , 89-127	
381	The application of transition metal sulfide Ni3S4/CNFs in rechargeable Ni🗖n batteries. 2021, 45, 22491-22496	О
380	Local Structure in Mixtures of Ionic Liquid with Molecular Solvent: Vibration Spectroscopy, NMR and Molecular Dynamics Simulation. 2021 , 289-334	
379	Tailoring anode material for high cycle ability of Lithium-ion battery. 2021,	
378	Laser cutting of silicon anode for lithium-ion batteries. 2022 , 16, 322-334	Ο

377	Integrated Design of Silkworm-Chrysalis-Net-Like Fe3O4/rGO/Mesoporous Carbon Composites as a High-Performance Anode Material for Lithium-Ion Batteries.	О
376	Role of Li2MnO3 Modification in Improving the Electrochemical Performance of Lithium-Rich Manganese-Based Oxide Electrodes.	О
375	Chemo-mechanical model predicted critical SOCs for the mechanical stability of electrode materials in lithium-ion batteries. 2022 , 216, 107034	0
374	Mechanistic modeling of Li plating in lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 521, 230936 8.9	1
373	Recent progress in sustainable recycling of LiFePO4-type lithium-ion batteries: Strategies for highly selective lithium recovery. 2022 , 431, 133993	10
372	Lithium and sodium storage performance of tin oxyphosphate anode materials. 2022, 579, 152126	1
371	Economic Model Predictive Control for a Microgrid with Depreciation LiFePO4 Battery with a Fixed Cycling Interval. 2020 ,	
370	A Battery Experiment Design for Electrical Engineering Course Extension Education. 2020,	
369	Obstacle Avoidance Vehicle Integrated With Cloud. 2020 ,	О
368	A Comprehensive Review on the Characteristics and Modelling of Lithium-ion Battery Ageing. 2021, 1-1	5
367	Influence of Crystal Disorder in MoS2 Cathodes for Secondary Hybrid Mg-Li Batteries. 2021 , 74, 819	1
366	Increasing the Performance of Cathode Material in Alkaline (Li, Na and K) Ion Battersis: Synthesis and Characterization. 2021 , 15, S140-S148	
365	Capacity prediction of lithium-ion battery using UKF based on different C-rate. 2021,	0
364	Laboratory Studies in Different Battery Technologies for Application in Transportable Energy Storage Systems. 2021 ,	
363	The spinel MnFe2O4 grown in biomass-derived porous carbons materials for high-performance cathode materials of aqueous zinc-ion batteries. 2022 , 904, 164002	0
362	First-Principles Plane-Wave-Based Exploration of Cathode and Anode Materials for Li- and Na-Ion Batteries Involving Complex Nitrogen-Based Anions. 2022 , 34, 652-668	2
361	Si-based polymer-derived ceramics for energy conversion and storage. 2022 , 11, 197-246	2
360	Humidity-resistant, durable, wearable single-electrode triboelectric nanogenerator for mechanical energy harvesting. 2022 , 57, 2813-2824	1

359	Extraction of unburned carbon from coal fly ash. 2022 , 403-449	О
358	Homogenization of Spirally Wound High-Contrast Layered Materials. 2022 , 82, 168-193	О
357	Surface effects on buckling of nanowire electrode. 2022 , 71, 033101	
356	Recycling of Lithium-Ion Batteriesturrent State of the Art, Circular Economy, and Next Generation Recycling. 2102917	25
355	Prediction of Internal Circuit and Mechanical-Electrical-Thermal Response of Lithium-Ion Battery Cell with Mechanical-Thermal Coupled Analysis. 2022 , 15, 929	
354	Effect of conductivity, viscosity, and density of water-in-salt electrolytes on the electrochemical behavior of supercapacitors: molecular dynamics simulations and in situ characterization studies. 2022 , 3, 611-623	2
353	Porous carbons for energy storage and conversion. 2022 , 239-540	
352	PVP-assisted Self-assembling of lacelike TiP2O7 encapsulated in carbon bracket for advanced Lithium-ion storage. 2022 , 585, 152514	О
351	Rational Design of Bimetallic Zeolitic Imidazolate Framework-Derived C, N Dual-Doped ZnO/Co for Boosting Lithium Storage. 2100463	O
350	Resource Availability and Implications for the Development of Plug-In Electric Vehicles. 2022 , 14, 1665	2
349	Improved cycling performance of polypyrrole coated potassium trivanadate as an anode for aqueous rechargeable lithium batteries. 2022 ,	O
348	Thorough extraction of lithium and rubidium from lepidolite via thermal activation and acid leaching. 2022 , 178, 107407	2
347	Facilitating sustainable oxygen-redox chemistry for P3-type cathode materials for sodium-ion batteries. 2022 , 46, 329-343	O
346	Structural characterization and electrochemical performance of Ni-doped Co9S8 for Li-ion battery and asymmetric supercapacitor dual applications. 2022 , 630, 413707	3
345	Stabilized Li metal anode with robust C-Li3N interphase for high energy density batteries. 2022 , 46, 563-569	2
344	Relevance on the Recovery of High Economic Value Elements and Potential of Ionic Liquids. 2022 , 1995-2021	
343	3D Vertically Aligned Microchannel Three-Layer All Ceramic Lithium Ion Battery for High-Rate and Long-Cycle Electrochemical Energy Storage 2022 , e2107442	1
342	A Nanostructured Mo 2 C-rGO Heterostructure as a stable Anode with ultra-high capacity for Lithium-Ion Battery**. 2022 , 7,	

341	A process for developing spherical graphite from coal tar as high performing carbon anode for Li-ion batteries. 2022 , 281, 125836	0
340	Pushing Stoichiometries of Lithium-Rich Layered Oxides Beyond Their Limits 2022 , 5, 1905-1913	4
339	High voltage stable solid-state lithium battery based on the nano-conductor imbedded flexible hybrid solid electrolyte with hyper-ion conductivity and thermal, mechanical, and adhesive stability. 2022 , 435, 135092	2
338	Deep learning enabled state-of-charge estimation of LiFePO4 batteries: A systematic validation on state-of-the-art charging protocols. 2022 , 246, 123404	3
337	Impact of Bracing on Large Format Prismatic Lithium-Ion Battery Cells during Aging. 2022 , 12, 2102448	3
336	Reversible and Irreversible Redox Processes in Li-Rich Layered Oxides. 2021 , 33, 9534-9545	2
335	Lithium Selectivity of Crown Ethers: The Effect of Heteroatoms and Cavity Size.	
334	Enhanced Lithium Storage Stability Mechanism of Ultra-high Nickel LiNi0.91Co0.06Al0.03O2@Ca3(PO4)2 Cathode Materials. 2022 , 769	1
333	Temperature-dependent Li vacancy diffusion in LiTiO by means of first principles molecular dynamic simulations 2022 ,	
332	Identifying surface degradation, mechanical failure, and thermal instability phenomena of high energy density Ni-rich NCM cathode materials for lithium-ion batteries: a review 2022 , 12, 5891-5909	2
331	Three-dimensional nano-folded transition-metal oxide electrode materials for high-performing electrochemical energy-storage devices. 2022 , 10, 5276-5283	
330	Realization of improved electrochemical performance for ZnCo2O4/C nanosheets through Ag coating. 2022 ,	O
329	A Composite Porous Membrane Based on Derived Cellulose for Transient Gel Electrolyte in Transient Lithium-Ion Batteries 2022 , 15,	
328	Stabilization of Sb nanoparticles using metalBrganic frameworks to obtain stable performance of anode material for sodium-ion batteries. 2022 , 41, 1406-1409	1
327	A Green Approach for Selective Ionometallurgical Separation of Lithium from Spent Li-Ion Batteries by Deep Eutectic Solvent (DES): Process Optimization and Kinetics Modeling. 1-13	4
326	Basics, properties, and thermal issues of EV battery and battery thermal management systems: Comprehensive review. 095440702210791	1
325	Concept Review of a Cloud-Based Smart Battery Management System for Lithium-Ion Batteries: Feasibility, Logistics, and Functionality. 2022 , 8, 19	15
324	Power Batteries Health Monitoring: A Magnetic Imaging Method Based on Magnetoelectric Sensors 2022 , 15,	O

323	Introducing a Pseudocapacitive Lithium Storage Mechanism into Graphite by Defect Engineering for Fast-Charging Lithium-Ion Batteries 2022 ,	O
322	A coupled finite element approach to spatially resolved lithium plating and stripping in three-dimensional anode microstructures of lithium-ion cells. 2022 , 111179	О
321	A superior-kinetics rechargeable zinc-air battery derived from efficient electroseparation of zinc, lead and copper in concentrated solutions 2022 ,	1
320	Improve the Electrochemical Performance of Na2Ti3O7 Nanorod through Pitch Coating. 2022 , 10, 4247-4257	O
319	Decreasing the Battery Recharge Time if Using a Fuzzy Based Power Management Loop for an Isolated Micro-Grid Farm. 2022 , 14, 2870	2
318	Modification Strategy for Constructing Li Gradient Combined with Spinel Phase Coating on Li-Rich Mn-Based Materials.	O
317	Application of Carbon Nanomaterials on the Performance of Li-Ion Batteries. 2022, 361-414	
316	Nonlinear Phase-Field Modeling of Lithium Dendritic Growth during Electrodeposition. 2022 , 169, 032511	1
315	ARJ EDÎLEBÎLÎR PÎLLERE GENEL BAKIÜ 2022 , 10, 297-309	
314	Metal-Metal Bonding as an Electrode Design Principle in the Low-Strain Cluster Compound LiScMoO 2022 ,	1
313	SnO2-Fe2O3 embedded in graphene nanosheets enhances conductivity and stable structure as a high-performance anode material for lithium-ion batteries. 2022 , 28, 2213	1
312	Effects of lithium salts on PEO-based solid polymer electrolytes and their all-solid-state lithium-ion batteries. 1	1
311	Electrothermal Aging Model of Li-Ion Batteries for Vehicle-to-Grid Services Evaluation. 2022, 11, 1042	2
310	Ionogels as Polymer Electrolytes for LithiumMetal Batteries: Comparison of Poly(ethylene glycol) Diacrylate and an Imidazolium-Based Ionic Liquid Crosslinker. 2022 , 4, 2794-2805	1
309	A comprehensive review on batteries and supercapacitors: Development and challenges since their inception.	2
308	Improving the Performance of the SiO/C Anode by Employing the Triblock Copolymer Binder and Copper Nanowires.	
307	Methods for estimating lithium-ion battery state of charge for use in electric vehicles: a review. 2022 ,	
306	PPy modified 1T-MoS2 hollow spheres with cohesive architecture as high-performance anode material for Li-ion batteries. 2022 , 48, 9781-9787	О

305	Improved Li-Ion conduction by ion-conductor Li1.5Al0.5Ge1.5(PO4)3 additive in garnet type Li7La3Zr2O12 solid electrolytes. 2022 , 281, 125910		
304	Phosphorus-Containing C9H21P3O6 Molecules as an Electrolyte Additive Improves LiNi0.8Co0.1Mn0.1O2/Graphite Batteries Working in High/Low-Temperature Conditions.		O
303	Realization of high cycle life bismuth oxychloride Na-ion anode in glyme-based electrolyte. <i>Journal of Power Sources</i> , 2022 , 529, 231227	8.9	1
302	A green strategy towards fabricating FePO4-graphene oxide for high-performance cathode of lithium/sodium-ion batteries recovered from spent batteries. 2022 , 913, 116287		O
301	Graphene anchored mesoporous MnO2 nanostructures as stable and high-performance anode materials for Li-ion batteries. 2022 , 414, 140164		3
300	Selective recovery and efficient separation of lithium, rubidium, and cesium from lepidolite ores. 2022 , 288, 120667		1
299	The effect of alloy type of lithophilic Cu-Sn interface layer on the deposition/stripping behavior of lithium metal anode. 2022 , 906, 164307		2
298	Metal-organic framework derived gradient interfacial layer for stable lithium metal anode. 2022 , 417, 140333		O
297	Development of a lifetime model for large format nickel-manganese-cobalt oxide-based lithium-ion cell validated using a real-life profile. 2022 , 50, 104289		О
296	In Operando Closed-cell Transmission Electron Microscopy for Rechargeable Battery Characterization: Scientific Breakthroughs and Practical Limitations. 2022 , 96, 107083		1
295	Achieving in-situ hybridization of NaTi2(PO4)3 and N-doped carbon through a one-pot solid state reaction for high performance sodium-ion batteries. 2022 , 310, 123036		
294	Lithium-ion batteries health prognosis via differential thermal capacity with simulated annealing and support vector regression. 2022 , 250, 123829		3
293	Non-invasive internal pressure measurement of 18650 format lithium ion batteries during thermal runaway. 2022 , 51, 104322		1
292	Battery Internal Resistance Detection Based on AC Injection Method. 2021,		
291	Battery Reliability of Fast Electric Vehicle Charging Systems. 2021,		О
290	A Review of Equivalent Circuit Model Based Online State of Power Estimation for Lithium-Ion Batteries in Electric Vehicles. 2022 , 4, 1-31		6
289	Frontiers and Structural Engineering for Building Flexible Zinc-Air Batteries 2021, e2103954		6
288	Analysis and design of a water-cooling structure for 18650 cylindrical battery. 2021 ,		O

287	Coal-Derived Graphene/MoS Heterostructure Electrodes for Li-Ion Batteries: Experiment and Simulation Study. 2021 ,		2
286	Multilayer Load and Fast Diffusion of Metal Ions on a Ti2CS2/Blue Phosphorene Heterostructure Anode. 2022 , 126, 91-101		0
285	Synergetic Effect of Electrolyte Coadditives for a High-Voltage LiCoO2 Cathode. 2022 , 126, 282-295		4
284	ReviewMultiscale Characterization of Li-Ion Batteries through the Combined Use of Atomic Force Microscopy and X-ray Microscopy and Considerations for a Correlative Analysis of the Reviewed Data. 2021 , 168, 126522		2
283	Digitalization of Battery Manufacturing: Current Status, Challenges, and Opportunities. 2102696		4
282	Modifying the Cathode E lectrolyte Interphase by Sulfone-Based Additive to Enhance the Electrochemical Performance of LiNi0.5Mn1.5O4. 2022 , 5, 639-647		O
281	Lityum iyon pilleri ay EELa r a da Hekzagonal Bor NitrEkullan EnE ve GeliEheler.		
2 80	Data-driven In-orbit Current and Voltage Prediction using Bi-LSTM for LEO Satellite Lithium-ion Battery SOC Estimation. 2022 , 1-1		O
279	Recent Advances of Li7La3Zr2O12-based Solid-state Lithium Batteries towards High Energy Density. 2022 ,		6
278	Lithium-ion battery separators based on electrospun PVDF: A review. 2022 , 101977		2
277	Powder Coatings via Atomic Layer Deposition for Batteries: A Review.		0
276	Thermal stability and thermal conductivity of solid electrolytes. 2022 , 10, 040902		2
275	Sodium-ion battery from sea salt: a review. 2022 , 11, 71		0
274	Toward Sustainable Solid Polymer Electrolytes for Lithium-Ion Batteries 2022 , 7, 14457-14464		2
273	Determining the Composition of Carbonate Solvent Systems Used in Lithium-Ion Batteries without Salt Removal. 2022 , 15, 2805		
272	Multi-angle Analysis of Electric Vehicles Battery Recycling and Utilization. 2022 , 1011, 012027		
271	Electrophoretic deposition as a fabrication method for Li-ion battery electrodes and separators [A review. <i>Journal of Power Sources</i> , 2022 , 535, 231448	8.9	4
270	Superior high-rate and cycle performances of a single-phase ferrous orthophosphate Na1.2Fe4(PO4)3 anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 535, 231447	8.9	O

(2022-2020)

269	Presentation_1.pdf. 2020 ,	
268	Data_Sheet_1.docx. 2019 ,	
267	Image_1.JPEG. 2019 ,	
266	Image_2.JPEG. 2019 ,	
265	Image_3.JPEG. 2019 ,	
264	Design and developments in ceramic materials for electrochemical applications. 2022, 353-377	
263	Research Progress of Aluminum Plastic Film for Soft-Packaging Lithium-Ion Batteries. 2022, 12, 123-135	
262	Structural, Dynamic, and Chemical Complexities in Zinc Anode of an Operating Aqueous Zn-Ion Battery. 2200255	3
261	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. 2022, 100075	5
260	Aqueous Binders for Cathodes: A Lodestar for Greener Lithium Ion Cells.	1
259	Glyoxal-Based Electrolytes in Combination with Fe2O3@C-Based Electrodes for Lithium-Ion Batteries.	O
258	A Digital Twin-Driven Life Prediction Method of Lithium-Ion Batteries Based on Adaptive Model Evolution 2022 , 15,	O
257	Investigation the Degradation Mechanisms of Lithium-Ion Batteries under Low-Temperature High-Rate Cycling.	2
256	High safety and electrochemical performance electrospun para-aramid nanofiber composite separator for lithium-ion battery. 2022 , 225, 109479	3
255	High-loaded nanobelt-array/nanobelt-microsphere multilayer Li4Ti5O12 self-supported on Ti foils for high-performance lithium ion battery. 2022 , 419, 140407	O
254	Lithium selectivity of crown ethers: The effect of heteroatoms and cavity size. 2022 , 294, 121142	2
253	Catalytic Mo2C decorated hollow mesoporous carbon spheres as sulfur host for lithium-sulfur batteries with high sulfur loading. 2022 , 312, 123187	O
252	Track-etched polyimide separator decorated with polyvinylpyrrolidone for self-assembling a robust protective layer on lithium-metal anode. 2022 , 445, 136801	4

251 Polyoxometalate-based metal organic frameworks (POMOFs) for lithium-ion batteries. **2022**, 245-268

250	A review of behind-the-meter energy storage systems in smart grids. 2022 , 164, 112573	1
249	Mechanical damages in solid electrolyte battery due to electrode volume changes. 2022 , 52, 104810	1
248	Evaluating single-crystal and polycrystalline NMC811 electrodes in lithium-ion cells via non-destructive EIS alone.	О
247	A solid-liquid composite electrolyte with a vertical microporous Li1.5Al0.5Ge1.5. 2022 , 126265	О
246	Deformation and fracture behaviors of cylindrical battery shell during thermal runaway. <i>Journal of Power Sources</i> , 2022 , 539, 231607	2
245	Enabling Scalable Polymer Electrolyte with Synergetic Ion Conductive Channels via a Two Stage Rheology Tuning UV Polymerization Strategy 2022 , e2202013	1
244	Bio-inspired nanotechnology for easy-to-recycle lithium-ion batteries. 2022 , 141-158	
243	Synthesis of Heterostructured Dual metal Sulfides by High-temperature Mixing Hydrothermal Method as a Ultra-high Rate Anode for Li-ion Batteries.	
242	Technologies for separating nanomaterials from spent lithium-ion batteries. 2022 , 247-262	
241	Key materials and future perspective for aqueous rechargeable lithium-ion batteries. 2022, 100096	О
240	Influence of Al on the structure and ion transport in garnet-type Li7La3-xAlxZr2O12 solid electrolytes for Li-ion batteries. 2022 ,	
239	Combined influence of concentration-dependent properties, local deformation and boundary confinement on the migration of Li-ions in low-expansion electrode particle during lithiation. 2022 , 52, 104908	1
238	Axially and radially inhomogeneous swelling in commercial 18650 Li-ion battery cells. 2022 , 52, 104563	1
237	Processing of Lithium Metal for the Production of Post-Lithium-Ion Batteries Using a Pulsed Nanosecond Fiber Laser.	
236	Development of Si-C hybrid nanocomposite for Li-ion batteries with optimum silicon to polydopamine weight ratio. 2022 , 132539	O
235	Synthesis of free-standing flexible g-C 3 N 4 / MXene film as electrode materials for supercapacitors.	
234	Phase Relations in a NaFeO2-SnO2 (0B0 mol.% SnO2) System and the Crystal Structure and Conductivity of Na0.8Fe0.8Sn0.2O2. 2022 , 15, 3612	

233	All 3D Printing Shape-Conformable Zinc Ion Hybrid Capacitors with Ultrahigh Areal Capacitance and Improved Cycle Life. 2200341	2
232	Dynamic Elucidation of Lithium Insertion Reaction into MgMn2O4 Spinel. 2022 , 169, 060505	O
231	Ionic liquids as antistatic additives for polymer composites 🖪 review. 2022 , 112, 107649	1
230	Carbon binder domain networks and electrical conductivity in lithium-ion battery electrodes: A critical review. 2022 , 166, 112624	4
229	Highly selective separation of lithium with hierarchical porous lithium-ion sieve microsphere derived from MXene. 2022 , 537, 115847	2
228	Rational design of ultrathin Mo2C/C nanosheets decorated on mesoporous hollow carbon spheres as a multifunctional sulfur host for advanced Li-S batteries. 2022 , 918, 165667	2
227	Influence of Aerogel Felt with Different Thickness on Thermal Runaway Propagation of 18650 Lithium-ion Battery. 2022 ,	Ο
226	Phosphorus-based nanomaterials for lithium-ion battery anode. 2022,	
225	Nanomembranes for Energy Storage. 2022 , 221-252	
224	Review of low-temperature lithium-ion battery progress: New battery system design imperative.	O
224	Review of low-temperature lithium-ion battery progress: New battery system design imperative. Electric vehicle fire hazards associated with batteries, combustibles and smoke.	ο
<u> </u>		0
223	Electric vehicle fire hazards associated with batteries, combustibles and smoke. One dimensional amorphous carbon nanotubes derived from palygorskite as template for high	
223	Electric vehicle fire hazards associated with batteries, combustibles and smoke. One dimensional amorphous carbon nanotubes derived from palygorskite as template for high performance lithium ions batteries.	
223	Electric vehicle fire hazards associated with batteries, combustibles and smoke. One dimensional amorphous carbon nanotubes derived from palygorskite as template for high performance lithium ions batteries. Influence of Electrode Parameters on the Performance Behavior of Lithium-ion Battery. 1-23 Tailoring the Surface of Natural Graphite with Functional Metal Oxides via Facile Crystallization for	1
223 222 221 220	Electric vehicle fire hazards associated with batteries, combustibles and smoke. One dimensional amorphous carbon nanotubes derived from palygorskite as template for high performance lithium ions batteries. Influence of Electrode Parameters on the Performance Behavior of Lithium-ion Battery. 1-23 Tailoring the Surface of Natural Graphite with Functional Metal Oxides via Facile Crystallization for Lithium-Ion Batteries. Revisiting Polytetrafluorethylene Binder for Solvent-Free Lithium-Ion Battery Anode Fabrication.	1
223 222 221 220 219	Electric vehicle fire hazards associated with batteries, combustibles and smoke. One dimensional amorphous carbon nanotubes derived from palygorskite as template for high performance lithium ions batteries. Influence of Electrode Parameters on the Performance Behavior of Lithium-ion Battery. 1-23 Tailoring the Surface of Natural Graphite with Functional Metal Oxides via Facile Crystallization for Lithium-Ion Batteries. Revisiting Polytetrafluorethylene Binder for Solvent-Free Lithium-Ion Battery Anode Fabrication. 2022, 8, 57 Impact of Overlithiation and Al doping on the battery performance of Li-rich layered oxide	1 3

215	First-principles investigation of V2CSe2 MXene as a potential anode material for non-lithium metal ion batteries. 2022 , 41, 7-13	1
214	Modeling the inhomogeneous lithium plating in lithium-ion batteries induced by non-uniform temperature distribution. 2022 , 425, 140701	2
213	Recovery of Lithium from Waste Box Sagger Through Sulfation and Wet Conversion Methods.	
212	Computational Investigation of Li Anchored Graphene as a Catalyst for Nitrogen Fixation.	
211	On the Connection between Slurry Rheology and Electrochemical Performance of Graphite Anodes in Lithium-Ion Batteries.	
210	Study and Integrated Strategies for Development and Minimizing Energy Losses in Batteries. 2022 ,	
209	The Development of a 3D Pore-Scale Lattice Boltzmann Model for 3D Microstructure Modeling and Design of Li-Ion Battery Electrodes. 2022 , 10, 2200080	О
208	Synthesis of Li1.2Mn0.54Ni0.13Co0.13O2 nanorods by a facile self-template method and their electrochemical performances.	
207	An Investigation into the Social Benefits of Chinal Standardization of Electric Vehicles in Response to the Demand for High Energy and Low Emissions. 2022 , 2022, 1-13	
206	Precursor Morphology Control and Electrochemical Properties of LiNi0.35Mn0.30Co0.35O2 as a Li-Ion Battery Positive Electrode Material.	О
205	Enhancing Ionic Conductivity of Carboxymethyl Cellulose-Lithium Perchlorate with Crosslinked Citric Acid as Solid Polymer Electrolytes for Lithium Polymer Batteries. 2022 , 11, 1002-1011	2
204	Primary particles with ultra-thin carbon layer combined with loose secondary particles to jointly promote the low-temperature performance of LiFePO4.	
203	In Situ Construction of CeO2-Incorporated Hybrid Covalent Organic Frameworks for Highly Efficient LithiumBulfur Batteries.	1
202	MXene-Ti 3 C 2 Armored Layer for Aluminum Current Collector Enable Stable High-Voltage Lithium-Ion Battery. 2200856	О
201	Electric Vehicle Modelling for Future Technology and Market Penetration Analysis. 8,	1
200	Mechanism of gelation in high nickel content cathode slurries for sodium-ion batteries. 2022,	О
199	A Stable Three-Dimensional Porous Carbon as a High-Performance Anode Material for Lithium, Sodium, and Potassium Ion Batteries. 2200230	1
198	Bacterial nanocellulose: Green polymer materials for high performance energy storage applications. 2022 , 10, 108176	1

197	Electrochemical study of reduced graphene oxide@Zn2Ti3O8 nanocomposites as a superior anode for Li-ion battery. 2022 , 260, 117872		Ο
196	Low-cost numerical lumped modelling of lithium-ion battery pack with phase change material and liquid cooling thermal management system. 2022 , 54, 105293		Ο
195	Application of 1-butyl-3-menthylimidazolium-hexafluorophosphate as flame retardant in electrolyte of lithium ion battery. 2022 , 79, 104837		Ο
194	Data-driven lithium-ion battery remaining life prediction on actual operating vehicles. 2021,		Ο
193	Thermodynamic Analysis of the Hydrolysis of Borate-Based Lithium Salts by Density Functional Theory. 2022 , 169, 070523		
192	Qualifying water-based electrode dispersions for the inkjet printing process: a requirements analysis.		O
191	Elaborated EECM parameter identification reflecting adaptive weight for achieving a high-accuracy SOC estimator.		
190	Characterization of commercial 18,650 Li-ion batteries using strain gauges. 2022 , 57, 13560-13569		2
189	The influence of temperature on area-specific impedance and capacity of Li-ion cells with nickel-containing positive electrodes. <i>Journal of Power Sources</i> , 2022 , 543, 231864	8.9	0
188	Tensile Property and Corrosion Performance of Ag Microalloying of Al-Cu Alloys for Positive Electrode Current Collectors of Li-Ion Batteries. 2022 , 15, 5126		
187	A LithiumBulfur Battery Using Binder-Free Graphene-Coated Aluminum Current Collector. 2022 , 36, 9321-9328		O
186	Effect of co-precipitation and solid-state reaction synthesis methods on lithium-rich cathodes Li1.2Ni0.2Mn0.6O2. 2022 , 26, 2315-2328		O
185	On the connection between slurry rheology and electrochemical performance of graphite anodes in Lithium-ion batteries. 2022 , 141, 107353		
184	Theoretical Study of the Electrochemical Properties for Solid Electrolytes Containing Ethoxy and Carbonate Groups. 2022 , 169, 080519		
183	Interpretable learning of voltage for electrode design of multivalent metal-ion batteries. 2022, 8,		O
182	Difunctional NH2-modified MOF supporting plentiful ion channels and stable LiF-rich SEI construction via organocatalysis for all-solid-state lithium metal batteries. 2022 ,		1
181	Fault Tolerance Optimization of a Lithium Battery Pack Having a Damaged Unit.		
180	A Ceramic Rich Quaternary Composite Solid-State Electrolyte for Solid-State Lithium Metal Batteries. 2022 , 169, 080510		

179	Batteries and Hydrogen Storage: Technical Analysis and Commercial Revision to Select the Best Option. 2022 , 15, 6196	1
178	Lean Cell Finalization in Lithium-Ion Battery Production: Determining the Required Electrolyte Wetting Degree to Begin the Formation.	3
177	Insights into the floatability between spodumene and albite from crystal chemistry standpoint. 2022 ,	0
176	Challenges and Opportunities of Ionic Liquid Electrolytes for Rechargeable Batteries.	O
175	Si1⊠Gex anode synthesis on plastic films for flexible rechargeable batteries. 2022 , 12,	O
174	Pineapple leaf fibers (PALF) as the sustainable carbon anode material for lithium-ion batteries. 2022 , 33, 18961-18981	O
173	Hydrothermal synthesis of transition metal oxides, transition metal oxide/carbonaceous material nanocomposites for supercapacitor applications. 2022 , 100214	3
172	Processing of lithium metal for the production of post-lithium-ion batteries using a pulsed nanosecond fiber laser. 2022 , 15, 100305	O
171	Dual-Credit Policy of new energy automobile at China: Inhibiting scale or intermediary of innovation?. 2022 , 43, 100932	0
170	Inhibition effect of liquid nitrogen on thermal runaway propagation of lithium ion batteries in confined space. 2022 , 79, 104853	1
169	Critical materials for electrical energy storage: Li-ion batteries. 2022 , 55, 105471	1
168	Oxygen-deficient Nb2O5-x decorated MCMB anode with much enhanced rate and cycle performances for Li-ion batteries. 2022 , 604, 154564	O
167	Synergistic modification of Ni-rich full concentration gradient materials with enhanced thermal stability. 2023 , 451, 138518	2
166	Computer-Vision-Based Approach to Classify and Quantify Flaws in Li-Ion Electrodes. 2200887	O
165	Thermodynamic and kinetic limits of Li-ion battery operation. 2022 , 55, 105747	0
164	Experimental assessment of the discharge characteristics of multi-type retired lithium-ion batteries in parallel for echelon utilization. 2022 , 55, 105539	1
163	Novel active management of compressive pressure on a lithium-ion battery using a phase transition actuator. 2022 , 8, 10762-10775	O
162	Construction of high-performance LiMn0.8Fe0.2PO4/C cathode by using quinoline soluble substance from coal pitch as carbon source for lithium ion batteries. 2022 , 927, 166921	O

161	Effect of TeO2 sintering aid on the microstructure and electrical properties of Li1.3Al0.3Ti1.7(PO4)3 solid electrolyte. 2022 , 927, 167019	0
160	Capacity prediction of K-ion batteries: a machine learning based approach for high throughput screening of electrode materials.	О
159	Se/N co-doped carbon nanorods for potassium ion storage. 2022 , 9, 4478-4485	О
158	Preparation of Cotton Straw Based Multi-pore Biomass Charcoal, Characterization and Electrochemical Properties. 2022 , 139-155	Ο
157	Thickness Measurement of Graphite Coating on Lithium Battery Anode Film by Scanning Acoustic Microscope With Resolution Enhancement Method. 2022 , 71, 1-12	1
156	Liquid Cooled Battery Thermal Management System for 3S2P Li-Ion Battery Configuration. 2022 , 223-236	Ο
155	From symmetry breaking in the bulk to phase transitions at the surface: a quantum-mechanical exploration of Li6PS5Cl argyrodite superionic conductor. 2022 , 24, 22978-22986	0
154	Ultrafast Self-Expanded Reduced Graphene Oxide and 2d Mos2 Based Films as Anode in Li-Ion Battery.	O
153	Enabling high-capacity Li metal battery with PVDF sandwiched type polymer electrolyte. 2023 , 629, 980-988	2
152	Bottom-up cost modeling of lithium-ion battery cells for electric vehicle applications. 2022,	O
151	Preparation and characterization of acid-treated multiwalled carbon nanotubes interlinked nickel vanadate microcomposites for lithium-ion batteries.	0
150	Progress and challenges of prelithiation technology for lithium-ion battery.	Ο
149	A Review of Nonaqueous Electrolytes, Binders, and Separators for Lithium-Ion Batteries. 2022 , 5,	1
148	XO (X´= Ti, Mn) decorated hollow multi-channel carbon sub-micro fiber networks as freestanding cathode for Li S batteries. 2022 ,	O
147	A Combined XPS and Computational Study of the Chemical Reduction of BMP-TFSI by Lithium**.	0
146	Ultrafast self-expanded reduced graphene oxide and 2D MoS2 based films as anode in Li-ion battery. 2022 , 141318	O
145	Conductive polymer-based coating layer on copper current collector for enhanced performance of Li-ion battery.	1
144	Preparation of SnO2@TiO2/Graphene by micro-arc oxidation as an anode material for lithium ion batteries. 2022 , 145, 110048	О

143	Electrochemical discharge of Li-ion batteries - A methodology to evaluate the potential of discharge electrolytes without corrosion. 2022 , 55, 105734	O
142	TiO2/ZnO:Cu nanocomposite films in development the electrochemical potential for rechargeable batteries. 2022 ,	O
141	Structural engineering of bimetallic selenides for high-energy density sodium-ion half/full batteries.	1
140	The Mechanical Properties of Batteries and Supercapacitors. 2022 ,	O
139	Theoretically evaluating two-dimensional tetragonal Si2Se2 and SiSe2 nanosheets as anode materials for alkali metal-ion batteries. 2022 , 24, 26241-26253	O
138	Future Challenges to Address the Market Demands of All-Solid-State Batteries. 2022 , 275-295	O
137	Repurposing Face Masks after Use: From Wastes to Anode Materials for Na-Ion Batteries. 2022 , 8, 183	O
136	First-Principles Study on the Electronic Properties and Mechanical Stabilities of Anion-Cation Multiple-Doped LiFePO 4. 2022 , 7,	O
135	Chloride Ion-Containing Polymeric Ionic Liquids for Application as Electrolytes in Solid-State Batteries. 2200317	О
134	Effect of Extremely Short-Sized MWCNT as Additive Material in High Surface Area Activated Carbon and Its Enhanced Electrical LIC Performance. 2022 , 27, 7033	O
133	Electrochemical Performance of Li2TiO3//LiCoO2 Li-Ion Aqueous Cell with Nanocrystalline Electrodes. 2022 , 8, 149	O
132	Modeling and Simulation of a Commercial Lithium-Ion Battery with Charge Cycle Predictions. 2022 , 14, 14035	O
131	Numerical Models of the Electrolyte Filling Process of Lithium-Ion Batteries to Accelerate and Improve the Process and Cell Design. 2022 , 8, 159	1
130	Properties of silicon-based lithium batteries with different electrode nanostructures. 2022 , 2355, 012069	O
129	High-Temperature Magnesiothermic Reduction Enables HF-Free Synthesis of Porous Silicon with Enhanced Performance as Lithium-Ion Battery Anode. 2022 , 27, 7486	O
128	Manganese-based NASICON structured Na1+2Mn Ti2-(PO4)3 as promising cathode in aqueous sodium ion battery. 2022 , 167872	O
127	Exaggerated grain growth and the development of coarse-grained microstructures in lithium lanthanum titanate perovskite ceramics. 2022 ,	O
126	Exploiting the multifunctionality of a designed vanadium-doped ZnO hybrid for selective catalytic reduction of NOx and electrochemical applications. 2022 , 10, 108780	O

125	A review on recent key technologies of lithium-ion battery thermal management: External cooling systems. 2022 , 16, 100703	1
124	Interface functionalization of composite electrolyte by Lix-CeO2 layer on the surface of Li6.4La3Zr1.4Ta0.6O12. 2022 , 435, 141366	O
123	Muscovite as an inert filler for highly conductive and durable gel polymer electrolyte in sodium-ion batteries. 2022 , 552, 232259	O
122	Kinetics study and recycling strategies in different stages of full-component pyrolysis of spent LiNixCoyMnzO2 lithium-ion batteries. 2023 , 155, 8-18	O
121	Recovery of lithium from LiAlO2 in waste box sagger through sulfation to produce Li2SO4 and sequential wet conversion to Li3PO4, LiCl and Li2CO3. 2023 , 215, 105988	0
120	Incorporating 2D FAl2O3 nanosheets into the flexible PEO-based solid electrolyte for lithium metal batteries. 2022 , 141504	O
119	Improved electrochemical performance of LiNi0.8Co0.1Mn0.1O2 cathode material for Lithium-ion batteries by using pre-oxidation of K2Cr2O7. 2022 , 133530	0
118	Formation of the Secondary Phase Domain by Multi-Cation Substitution for the Superior Electrochemical Performance of Spinel Cathodes for High-Voltage Li-Ion Batteries.	O
117	Global Perspectives on and Research Challenges for Electric Vehicles. 2022 , 4, 1246-1276	1
116	Additive manufacturing of LiNi1/3Mn1/3Co1/3O2 battery electrode material via vat photopolymerization precursor approach. 2022 , 12,	1
115	Study on the Reversible and Irreversible Heat Generation of the Lithium-Ion Battery with LiFePO4 Cathode.	O
114	Recycling methods for different cathode chemistries [A critical review. 2022 , 56, 106053	O
113	Assessing the Impact of Transport and Kinetic Mechanisms during the Analysis of a LiFePO4 Cathode: A Different Perspective during the Operation and Modeling of a Battery Cell. 2022 , 139720	O
112	3D-Printed Porous GO Framework Enabling Dendrite-Free Lithium-Metal Anodes.	O
111	De/protonation associated sustainable conversion reaction applicable to high-capacity zinc storage in mildly acidic aqueous system. 2022 ,	O
110	Electron passivation in CaF2 on calcium metal anodes. 2022 , 24, 29579-29585	O
109	Service-Based Wireless Energy Crowdsourcing. 2022 , 653-668	1
108	Interaction of imidazolium based ionic liquid electrolytes with carbon nitride electrodes in supercapacitors; a step forward for understanding electrode lectrolyte interaction. 2023 , 369, 120955	O

107	Hybrid solid electrolyte-liquid electrolyte systems for (almost) solid-state batteries: Why, how, and where to?.	0
106	Newly developed gel polymer electrolytes based on crosslinked poly(2-oxazolines). 2023 , 389, 116096	O
105	Nanofiber-in-microfiber carbon/silicon composite anode with high silicon content for lithium-ion batteries. 2023 , 203, 436-444	1
104	Quantum view of Li-ion high mobility at carbon-coated cathode interfaces. 2023 , 26, 105794	Ο
103	Sodium trithiocarbonate cathode for high-performance sodium allfur batteries. 2022, 11, 130-140	0
102	Influences of lithium on soil properties and enzyme activities. 2023 , 313, 137458	O
101	Application of GO anchored mediator in a polymer electrolyte membrane for high-rate solid-state supercapacitors. 2023 , 669, 121285	0
100	Intensification of lithium carbonation in the thermal treatment of spent EV Li-ion batteries via waste utilization and selective recovery by water leaching. 2023 , 17, 200125	O
99	Improving the Cooling Performance of Cylindrical Lithium-Ion Battery Using Three Passive Methods in a Battery Thermal Management System.	0
98	Characterization and Prediction of Polymer/Active Material Interface Failure in Battery Electrodes.	O
97	Analysis of the Charge Density Variation Caused by the Physical Properties of the Electrodes of Lithium-Ion Batteries. 2022 , 6, 701	0
96	Ultra-Thin Single-Particle-Layer Sodium Beta-Alumina-Based Composite Polymer Electrolyte Membrane for Sodium-Metal Batteries. 2211229	O
95	Electrochemical energy storage and conversion: An overview.	0
94	The role of oxygen heteroatoms in the surface (electro)chemistry of carbon materials. 2022 , 1, 162-174	0
93	Review of preferentially selective lithium extraction from spent lithium batteries: Principle and performance. 2022 ,	1
92	Flow Batteries From 1879 To 2022 And Beyond.	O
91	A Novel Cathode Material Synthesis and Thermal Characterization of (1-x-y) LiCo1/3Ti1/3Fe1/3PO4, xLi2MnPO4, yLiFePO4 Composites for Lithium-Ion Batteries (LIBs). 2022 , 27, 8486	О
90	Bio-inspired ion transport/extraction systems toward future energy demand. 2022 , 3, 101167	O

89	Exploring Trimethyl-Phosphate-Based Electrolytes without a Carbonyl Group for Li-Rich Layered Oxide Positive Electrodes in Lithium-Ion Batteries. 2022 , 13, 11307-11316	O
88	Environmental Life Cycle Assessment of Emerging Solid-State Batteries: A Review. 2022 , 100439	1
87	Secondary Batteries for Mobile Applications: From Lead to Lithium [Historical]. 2022, 16, 60-68	0
86	Improvement of the Electrode E lectrolyte Interface Using Crosslinked Carbonate-Based Copolymers for Solid-State Lithium-Ion Batteries. 2022 , 8, 273	1
85	Poly(ethylene oxide)[Ithium bis(oxalato)borate-based nanocomposite polymer electrolytes.	O
84	Green recycling of spent Li-ion batteries by deep eutectic solvents (DESs): Leaching mechanism and effect of ternary DES. 2022 , 10, 109014	O
83	Unraveling Polysulfide's Adsorption and Electrocatalytic Conversion on Metal Oxides for Li-S Batteries. 2204930	1
82	Mechanism, quantitative characterization, and inhibition of corrosion in lithium batteries. 2022,	2
81	A novel garnet-type high-entropy oxide as air-stable solid electrolyte for Li-ion batteries. 2022 , 10, 121104	1
80	Optimization for ultrahigh specific capacity and superior temperature control in a Li-ion battery cell. 2023 , 98, 015710	O
79	Electronic properties of lithium-ion battery cathodes studied in ion-gated transistor configuration. 2022 , 105888	0
78	Salt Distribution, Phase Structure, and Conductivity of Poly(ethylene oxide)-block-Poly(n-butyl acrylate) Block Copolymer Electrolytes with Double Conductive Phases.	O
77	N-Doped Porous Carbon@CNT Nanowire as Effective Polysulfides Adsorption-Catalysis Interlayer for High-Performance Lithium-Sulfur Batteries. 2022 , 118400	0
76	Data-driven short circuit resistance estimation in battery safety issues. 2023,	O
75	Enhanced lithium storage of biomass-derived carbon/red phosphorus anode enabled by stable P-O-C bonds. 2023 , 117148	O
74	Controlling Cell Components to Design High-Voltage All-Solid-State Li-ion Batteries.	O
73	Flow Batteries From 1879 To 2022 And Beyond.	0
72	Flow Batteries From 1879 To 2022 And Beyond.	O

71	Investigation and Optimization of Fast Cold Start of 18650 Lithium-Ion Cell by Heating Film-Based Heating Method. 2023 , 16, 750	O
70	Health prognostics for lithium-ion batteries: mechanisms, methods, and prospects.	O
69	Preparation of N-doped Si/Cu/C anode for high-performance lithium-ion batteries.	O
68	A kinetic study on cobalt-free high-nickel layered oxide cathode materials for practical lithium-ion batteries. 2023 , 558, 232633	O
67	A comprehensive review on heat pipe based battery thermal management systems. 2023, 120070	1
66	Battery SOH Prediction Based on Multi-Dimensional Health Indicators. 2023 , 9, 80	O
65	Electrospun membranes for batteries. 2023 , 521-553	O
64	Stabilizing the NASICON Solid Electrolyte in an Inert Atmosphere as a Function of Physical Properties and Sintering Conditions for Solid-State Battery Fabrication.	O
63	Integrating highly active graphite nanosheets into microspheres for enhanced lithium storage properties of silicon. 2023 , 13, 4102-4112	O
62	Increasing the Performance of {[(1-x-y) LiCo0.3Cu0.7] (Al and Mg doped)] O2}, xLi2MnO3, yLiCoO2 Composites as Cathode Material in Lithium-Ion Battery: Synthesis and Characterization. 2023 , 14, 241	1
61	Material-structure-property integrated additive manufacturing of batteries. 2023, 109, 108247	1
60	Review f low Batteries From 1879 To 2022 And Beyond.	O
59	Zn substituted Li4P2S6 as a solid lithium-ion electrolyte for all-solid-state lithium batteries. 2023 , 320, 123861	O
58	Improvement of high current performance of Li ion batteries with TiO2 thin film anodes by transition metal doping. 2023 , 942, 169118	O
57	Probing depth-dependent inhomogeneous lithium concentration in thick LiNi0.88Co0.09Al0.03O2 cathodes for lithium-ion batteries. 2023 , 943, 169029	0
56	Naturally-derived thermal barrier based on fiber-reinforced hydrogel for the prevention of thermal runaway propagation in high-energetic lithium-ion battery packs. 2023 , 61, 106841	O
55	Estimating State of Charge and State of Health of Electrified Vehicle Battery by Data Driven Approach: Machine Learning. 2022 ,	O
54	Advanced Energy Materials Characterization: In Situ/Operando Techniques. 2023, 323-348	O

53	Hydrogen Bond-Enabled High-ICE Anode for Lithium-Ion Battery Using Carbonized Citric Acid-Coated Silicon Flake in PAA Binder. 2023 , 8, 8001-8010	0
52	Impact of annealing on material and electrical characteristics of lithium phosphate thin films on silicon carbide. 2023 , 24, 1579-1588	O
51	Governing failure mechanisms of simplified three-way dendritic branch under compressive load. 2023 , 180, 104620	0
50	Mechanisms of lithium selection from mixed LiCl-NaCl solution by nanopores: The synergistic effects of nanoconfinement and electric fields. 2023 , 553, 116455	O
49	Comprehensive analysis on aging behavior and safety performance of LiNixCoyMnzO2/graphite batteries after slight over-discharge cycle. 2023 , 225, 120172	0
48	Rational design of composite supporting electrolyte required for achieving high performance aqueous organic redox flow battery. 2023 , 464, 142661	O
47	State of charge estimation of an electric vehicles battery using Deep Neural Networks: Simulation and experimental results. 2023 , 62, 106904	0
46	Site occupancy studies of cobalt doping in a lithium iron phosphate material using combined electrochemical and X-ray based techniques. 2023 , 207, 110816	1
45	Study of lithium diffusion properties and electrochemical performance of SnSe/C and SnSe/MWCNT composite anode for Li-ion batteries. 2023 , 394, 116206	0
44	Enhanced safety of polymer solid electrolytes by using black phosphorene as a flame-retardant. 2023 , 666, 131317	O
43	Improving the cooling performance of cylindrical lithium-ion battery using three passive methods in a battery thermal management system. 2023 , 227, 120320	0
42	Theoretical investigation of the V2BX2 (X $=$ $\%$, Se, and Te) monolayers as anode materials for Na-ion batteries. 2023 , 35, 105923	O
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40	Reciprocal irreversibility compensation of LiNi0.2Co0.2Al0.1Mn0.45O2 cathode and silicon oxide anode in new Li-ion battery. 2023 , 452, 142263	O
39	Minimizing the volume expansion by a self-standing reduced graphene oxide/silicon nanoparticles/copper mesh hybrid electrodes for enhanced lithium-ion batteries. 2023 , 64, 107202	0
38	Ni/Ni2P@C heterostructure loaded porous carbon microrods framework connected by N-doped carbon nanotubes for lithium-ion batteries. 2023 , 64, 107146	O
37	Convolutional autoencoder-based SOH estimation of lithium-ion batteries using electrochemical impedance spectroscopy. 2023 , 60, 106680	0
36	Comprehensive investigation on Lithium batteries for electric and hybrid-electric unmanned aerial vehicle applications. 2023 , 38, 101677	1

35	Experimental Analysis of Drying Kinetics and Quality Aspects of Convection-Dried Cathodes at Laboratory Scale. 2023 , 9, 96	О
34	ANODE MATERIALS IN LITHIUM-ION BATTERIES BASED ON TIN.	O
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28	Germanium-Free Dense Lithium Superionic Conductor and Interface Re-Engineering for All-Solid-State Lithium Batteries against High-Voltage Cathode. 2023 , 15, 10629-10641	O
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25	Neutron diffraction for revealing the structures and ionic transport mechanisms of antiperovskite solid electrolytes. 2023 , 100048	О
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20	Spidroin-Inspired Hierarchical Structure Binder Achieves Highly Integrated Silicon-Based Electrodes.	O
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18	A Systematic Literature Analysis on Electrolyte Filling and Wetting in Lithium-Ion Battery Production. 2023 , 9, 164	O

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	from first-principles calculations. 2023 , 38, 102851	0
6		0
5	from first-principles calculations. 2023, 38, 102851 Electric Vehicle Battery Supply Chain and Critical Materials: A Brief Survey of State of the Art. 2023,	
	From first-principles calculations. 2023, 38, 102851 Electric Vehicle Battery Supply Chain and Critical Materials: A Brief Survey of State of the Art. 2023, 16, 3369 Sorption and leaching of lithium ions from aqueous nitrate/ascorbate solution using Dowex 50WX8	0
5	From first-principles calculations. 2023, 38, 102851 Electric Vehicle Battery Supply Chain and Critical Materials: A Brief Survey of State of the Art. 2023, 16, 3369 Sorption and leaching of lithium ions from aqueous nitrate/ascorbate solution using Dowex 50WX8 sodium form. 1-19 The Effect of Structure and Mechanical Properties Change of Current Collector during Cycling on	0
5	Electric Vehicle Battery Supply Chain and Critical Materials: A Brief Survey of State of the Art. 2023, 16, 3369 Sorption and leaching of lithium ions from aqueous nitrate/ascorbate solution using Dowex 50WX8 sodium form. 1-19 The Effect of Structure and Mechanical Properties Change of Current Collector during Cycling on Sb-Based Lithium-Ion Batteries Performance. 2023, 13, 780	0 0