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## Issues and challenges facing rechargeable lithium batteries

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2046	Effect of Cation and Salt Concentration on Conductivity and Microstructure Characteristics of Polyether Electrolytes Doped with Alkali Metal Perchlorates. <b>2004</b> , 108, 4263-4267	12
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2005	Synthesis, characterization and electrochemical properties of copper phosphide (Cu <sub>3</sub> P) thick films prepared by solid-state reaction at low temperature: a probable anode for lithium ion batteries. <b>2005</b> , 50, 4763-4770	53
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1132	Ionothermal Synthesis of Li-Based Fluorophosphates Electrodes <b>2010</b> , 22, 1142-1148	137
1131	Cellulose composites prepared using ionic liquids (ILs) - Blood Compatibility to Batteries. <b>2010</b> , 133-152	5
1130	Electrochemical Performance of the LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> in Aqueous Electrolyte. <b>2010</b> , 157, A702	27
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1114	UV-cured polymer electrolytes encompassing hydrophobic room temperature ionic liquid for lithium batteries. <b>2010</b> , 195, 1706-1713	76
1113	UV cross-linked, lithium-conducting ternary polymer electrolytes containing ionic liquids. <b>2010</b> , 195, 6130-6137	136
1112	In situ polyol-assisted synthesis of nano- $\text{SnO}_2$ /carbon composite materials as anodes for lithium-ion batteries. <b>2010</b> , 195, 2355-2361	48
1111	Enhanced lithium-ion intercalation properties of coherent hydrous vanadium pentoxide-carbon cryogel nanocomposites. <b>2010</b> , 195, 3893-3899	28
1110	Basic molten salt process: A new route for synthesis of nanocrystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}\cdot\text{TiO}_2$ anode material for Li-ion batteries using eutectic mixture of $\text{LiNO}_3\text{-LiOH}\cdot\text{Li}_2\text{O}_2$ . <b>2010</b> , 195, 4297-4303	75
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1108	Improved electrochemical performance of $\text{AlPO}_4$ -coated $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ electrode for lithium-ion batteries. <b>2010</b> , 195, 6860-6866	112
1107	Research progress in high voltage spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ material. <b>2010</b> , 195, 5442-5451	416
1106	A review of conduction phenomena in Li-ion batteries. <b>2010</b> , 195, 7904-7929	1135
1105	Structural changes in a commercial lithium-ion battery during electrochemical cycling: An in situ neutron diffraction study. <b>2010</b> , 195, 8258-8266	153
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1101	Shape control of CoO and LiCoO <sub>2</sub> nanocrystals. <b>2010</b> , 3, 1-7	67
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1091	Electrochemical characteristics of semi conductive silicon anode for lithium polymer batteries. <b>2010</b> , 24, 308-312	20
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1089	Application of electrochemical impedance spectroscopy to the study of ionic transport in polymer-based electrolytes. <b>2010</b> , 69, 207-214	21
1088	Further studies on the lithium phosphorus oxynitride solid electrolyte. <b>2010</b> , 123, 231-235	34
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1085	Synthesis of xLi <sub>2</sub> MnO <sub>3</sub> ·(1-x)LiMO <sub>2</sub> (M=Cr, Mn, Co, Ni) nanocomposites and their electrochemical properties. <b>2010</b> , 45, 252-255	31



1084	Surfactant-free synthesis and electrochemical properties of chrysanthemum-like InVO <sub>4</sub> hierarchical microstructures. <b>2010</b> , 45, 1903-1908	6
1083	Solvothermal synthesis of NiO/C hybrid microspheres as Li-intercalation electrode material. <b>2010</b> , 64, 1022-1024	19
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1081	Electrochemical performances of LiMn spinel synthesized from nanosized chemical manganese dioxide. <b>2010</b> , 12, 1687-1691	3
1080	Ab initio density functional theory investigation of Li-intercalated zinc oxide nanotube bundles. <b>2010</b> , 12, 2042-2046	3
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1074	Large Space-Charge Effects in a Nanostructured Proton Conductor. <b>2010</b> , 20, 4107-4116	16
1073	Local structure of layered oxide electrode materials for lithium-ion batteries. <b>2010</b> , 22, 1122-7	134
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1071	Mineralization of self-assembled peptide nanofibers for rechargeable lithium ion batteries. <b>2010</b> , 22, 5537-41	115
1070	Self-wound composite nanomembranes as electrode materials for lithium ion batteries. <b>2010</b> , 22, 4591-5	92
1069	Nanoarchitected 3D cathodes for Li-ion microbatteries. <b>2010</b> , 22, 4978-81	137
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1067	Nickel nanocone-array supported silicon anode for high-performance lithium-ion batteries. <b>2010</b> , 22, 5378-82	149

1066	Metal Oxide Nanoparticles. <b>2010</b> , 1-76	2
1065	Lithium Ion Conduction in Oxides. <b>2010</b> , 119-202	2
1064	Nanoparticles and 3D Supported Nanomaterials. <b>2010</b> , 279-340	1
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1062	Dynamic Visualization of the Electric Potential in an All-Solid-State Rechargeable Lithium Battery. <b>2010</b> , 122, 4516-4519	17
1061	Dynamic visualization of the electric potential in an all-solid-state rechargeable lithium battery. <b>2010</b> , 49, 4414-7	198
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1059	One-pot hydrothermal synthesis of CeO <sub>2</sub> hollow microspheres. <b>2010</b> , 312, 426-430	17
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1057	Structural and magnetic properties of LiMn <sub>1.5</sub> Fe <sub>0.5</sub> O <sub>4</sub> spinel oxide. <b>2010</b> , 405, 4733-4739	7
1056	Nano-sponge ionic liquidâpolymer composite electrolytes for solid-state lithium power sources. <b>2010</b> , 195, 867-871	29
1055	Fabrication of carbon nanofiber-driven electrodes from electrospun polyacrylonitrile/polypyrrole bicomponents for high-performance rechargeable lithium-ion batteries. <b>2010</b> , 195, 2050-2056	140
1054	The superior lithium storage capabilities of ultra-fine rutile TiO <sub>2</sub> nanoparticles. <b>2010</b> , 195, 2905-2908	104
1053	Synthesis of lithium insertion material Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> from rutile TiO <sub>2</sub> via surface activation. <b>2010</b> , 195, 2883-2887	44
1052	High rate cycling performance of Li <sub>1.05</sub> Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> materials prepared by solâgel and co-precipitation methods for lithium-ion batteries. <b>2010</b> , 195, 4313-4317	79
1051	Synthesis and performance of Li <sub>3</sub> (V <sub>1-x</sub> Mgx) <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode materials. <b>2010</b> , 195, 5775-5779	128
1050	In situ synthesis of ultra-fine, porous, tin oxide-carbon nanocomposites via a molten salt method for lithium-ion batteries. <b>2010</b> , 195, 5382-5386	45
1049	A novel solâgel synthesis route to NaVPO <sub>4</sub> F as cathode material for hybrid lithium ion batteries. <b>2010</b> , 195, 6854-6859	103

1048	Electrochemical Reduction of Silver Vanadium Phosphorous Oxide, Ag(2)VO(2)PO(4): Silver Metal Deposition and Associated Increase in Electrical Conductivity. <b>2010</b> , 195, 6839-6846	48
1047	Characterizing capacity loss of lithium oxygen batteries by impedance spectroscopy. <b>2010</b> , 195, 6817-6824	133
1046	Influence of lithium content on high rate cycleability of layered Li <sub>1+x</sub> Ni <sub>0.30</sub> Co <sub>0.30</sub> Mn <sub>0.40</sub> O <sub>2</sub> cathodes for high power lithium-ion batteries. <b>2010</b> , 195, 7391-7396	55
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1044	Modelling, dynamics and control of a portable DMFC system. <b>2010</b> , 20, 630-642	26
1043	New ramsdellites LiTi <sub>2</sub> VyO <sub>4</sub> (0 ≤ y ≤ 1): Synthesis, structure, magnetic properties and electrochemical performances as electrode materials for lithium batteries. <b>2010</b> , 183, 20-26	8
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1041	Steady state solution of the Poisson-Nernst-Planck equations. <b>2010</b> , 374, 2886-2889	25
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1039	The effects of anion structure of lithium salts on the properties of in-situ polymerized thermoplastic polyurethane electrolytes. <b>2010</b> , 51, 2864-2871	29
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1037	Synthetic optimization of spherical Li[Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> ] <sub>2</sub> O <sub>4</sub> prepared by a carbonate co-precipitation method. <b>2010</b> , 198, 373-380	51
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1032	Hierarchically ordered porous nickel oxide array film with enhanced electrochemical properties for lithium ion batteries. <b>2010</b> , 12, 890-893	91
1031	Synthesis and properties of a lithium-organic coordination compound as lithium-inserted material for lithium ion batteries. <b>2010</b> , 12, 1253-1256	81

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1028	UV-curable siloxane-acrylate gel-copolymer electrolytes for lithium-based battery applications. <b>2010</b> , 55, 1460-1467	60
1027	A novel perspective on the formation of the solid electrolyte interphase on the graphite electrode for lithium-ion batteries. <b>2010</b> , 55, 1785-1794	43
1026	Hydrothermal synthesis of carbon/vanadium dioxide core-shell microspheres with good cycling performance in both organic and aqueous electrolytes. <b>2010</b> , 55, 2662-2666	59
1025	Synthesis and electrochemical performance of lithium vanadium oxide nanotubes as cathodes for rechargeable lithium-ion batteries. <b>2010</b> , 55, 2536-2541	54
1024	Hematite nanoflakes as anode electrode materials for rechargeable lithium-ion batteries. <b>2010</b> , 55, 3089-3092	49
1023	Highly patterned cylindrical Ni <sub>2</sub> N alloys with 3-dimensionally ordered macroporous structure as anodes for lithium batteries. <b>2010</b> , 55, 8030-8035	42
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- 515 Synergy effects of Tb/Y/Zn for structural stability of high-voltage LiCoO<sub>2</sub> cathode material. **2023**, 553, 232289 o
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- 511 Investigation of the effect of point defects on the Li-ion conductivity of Li<sub>3</sub>InCl<sub>6</sub>. o
- 510 On the performance of a hierarchically porous Ag<sub>2</sub>S<sub>1-x</sub>S electrode in Li-ion batteries. o
- 509 Synthesis of LiNi<sub>0.4</sub>Mn<sub>0.4</sub>Co<sub>0.2</sub>O<sub>2</sub> cathode material prepared via carbonate co-precipitation method. **2022**, o



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507	From Lithium to Emerging Mono- and Multivalent- Cations Based Rechargeable Batteries: Non-aqueous Organic Electrolyte and Interphase Perspective.	1
506	Carbon black/electrolyte interface study by electromagnetic and electrochemical techniques in $\text{Al}_2\text{O}_3$ /poly(vinylidene fluoride)/carbon black composite materials: Application for lithium-ion batteries. <b>2023</b> , 437, 141495	0
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504	Electrospun derived polymer-garnet composite quasi solid state electrolyte with low interface resistance for lithium metal batteries. <b>2023</b> , 263, 126058	2
503	From nature, requite to nature: Bio-based cellulose and its derivatives for construction of green zinc batteries. <b>2023</b> , 454, 140311	1
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499	Na poti do zares dobrega akumulatorja: Medfazne površine in druge hudičeve rešitve	0
498	Molecular-level Designed Polymer Electrolyte for High-Voltage Lithium-Metal Solid-State Batteries. 2209828	1
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493	Synthesis of porous Mn <sub>2</sub> O <sub>3</sub> architecture for supercapacitor electrode application. <b>2022</b> , 130532	0
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- 484 High-capacity Sodium Manganese-based Oxide Cathodes for Sodium-ion Batteries. 0
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- 473 Evolution of Ternary  $\text{Li}_x\text{Sn}_y\text{O}_z$  Artificial Cathode-Electrolyte Interphase (ACEI) through ALD: A Surface Strengthened NCM811 with Enhanced Electrochemical Performances for Li-ion Batteries. **2022**, 101207 0

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- 339 Investigation of SnS<sub>2</sub>-rGO Sandwich Structures as Negative Electrode for Sodium-ion and Potassium-ion Batteries. o
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- 335 Review on Action Mechanism and Characterization of Natural/Artificial Solid Electrolyte Interphase of Lithium Battery: Latest Progress and Future Directions. o
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