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Polymerized ionic liquids with guanidinium cations as host for gel polymer electrolytes in lithium metal batteries

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#	Paper	IF	Citations
58	Application of bis(trifluoromethanesulfonyl)imide lithium N-methyl-N-butylpiperidinium-bis(trifluoromethanesulfonyl)imide poly(vinylidene difluoride-co-hexafluoropropylene) ionic liquid gel polymer electrolytes in Li/LiFePO ₄ batteries at different temperatures. <i>Electrochimica Acta</i> , 2012 , 85, 49-56	6.7	22
57	Polymer gel electrolytes containing sulfur-based ionic liquids in lithium battery applications at room temperature. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 515-521	2.6	19
56	New polymerized ionic liquid (PIL) gel electrolyte membranes based on tetraalkylammonium cations for lithium ion batteries. <i>Journal of Membrane Science</i> , 2013 , 447, 222-227	9.6	67
55	Poly(ionic liquid)s: An update. <i>Progress in Polymer Science</i> , 2013 , 38, 1009-1036	29.6	949
54	Li ⁺ conducting polymer electrolyte based on ionic liquid for lithium and lithium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 92, 404-411	6.7	26
53	Preparation of polymer electrolytes based on the polymerized imidazolium ionic liquid and their applications in lithium batteries. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	2
52	Facile preparation of polymer electrolytes based on the polymerized ionic liquid poly((4-vinylbenzyl)trimethylammonium bis(trifluoromethanesulfonylimide)) for lithium secondary batteries. <i>Electrochimica Acta</i> , 2014 , 123, 296-302	6.7	49
51	Synthesis and Characterization of Guanidinium-Based Ionic Liquids as Possible Electrolytes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A753-A761	3.9	8
50	An imidazolium-based polymerized ionic liquid via novel synthetic strategy as polymer electrolytes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 258, 150-154	8.9	89
49	Vinyl-triazolium monomers: Versatile and new class of radically polymerizable ionic monomers. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 417-423	2.5	55
48	Modular polymerized ionic liquid block copolymer membranes for CO ₂ /N ₂ separation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7967-7972	13	44
47	Compatibility of polymer electrolyte based on N-methyl-N-propylpiperidinium bis(trifluoromethanesulphonyl)imide ionic liquid with LiMn ₂ O ₄ cathode in Li-ion batteries. <i>Solid State Ionics</i> , 2014 , 267, 32-37	3.3	15
46	Application of quaternary polymer electrolyte based on ionic liquid in LiFePO ₄ /Li, Li ₄ Ti ₅ O ₁₂ /Li and LiFePO ₄ /Li ₄ Ti ₅ O ₁₂ batteries. <i>Electrochimica Acta</i> , 2014 , 139, 337-344	6.7	19
45	An activated carbon supercapacitor analysis by using a gel electrolyte of sodium salt-polyethylene oxide in an organic mixture solvent. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2217-2223	2.6	25
44	Anion and solvent responsive copolymeric gels [Morphology, annealing, and surfactant stimuli. <i>Polymer</i> , 2014 , 55, 3378-3384	3.9	13
43	Preparation of hybrid polymer based on polyurethane lithium salt and polyvinylidene fluoride as electrolyte for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014 , 136, 513-520	6.7	20
42	Recent Advances in Innovative Polymer Electrolytes based on Poly(ionic liquid)s. <i>Electrochimica Acta</i> , 2015 , 175, 18-34	6.7	289

41	Preparation of a ROMP-type imidazolium-functionalized norbornene ionic liquid block copolymer and the electrochemical property for lithium-ion batteries polyelectrolyte membranes. <i>RSC Advances</i> , 2015 , 5, 43581-43588	3.7	14
40	Polymerized ionic liquid block copolymers for electrochemical energy. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24187-24194	13	54
39	Polymer electrolytes based on dicationic polymeric ionic liquids: application in lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 170-178	13	92
38	Polymer electrolytes for lithium polymer batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10038-10069	13	739
37	Poly(ionic liquid)s: Synthesis, properties, and application. <i>Polymer Science - Series B</i> , 2016 , 58, 73-142	0.8	75
36	Electrochemical and cycling performances of novel nonafluorobutanesulfonate (nonaflate) ionic liquid based ternary gel polymer electrolyte membranes for rechargeable lithium ion batteries. <i>Journal of Membrane Science</i> , 2016 , 514, 350-357	9.6	70
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34	New reactive poly(ionic liquid)s synthesized by polymer analogous conversion of maleic anhydride containing polymers. <i>Polymer</i> , 2016 , 96, 20-25	3.9	5
33	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. <i>Polymer</i> , 2016 , 101, 311-318	3.9	36
32	Frontiers in poly(ionic liquid)s: syntheses and applications. <i>Chemical Society Reviews</i> , 2017 , 46, 1124-1159	38.5	596
31	Headway in rhodanide anion based ternary gel polymer electrolytes (TILGPEs) for applications in rechargeable lithium ion batteries: an efficient route to achieve high electrochemical and cycling performances. <i>RSC Advances</i> , 2017 , 7, 19211-19222	3.7	17
30	An enhanced electrochemical and cycling properties of novel boronic ionic liquid based ternary gel polymer electrolytes for rechargeable Li/LiCoO cells. <i>Scientific Reports</i> , 2017 , 7, 11103	4.9	33
29	An efficient way to achieve high ionic conductivity and electrochemical stability of safer nonaflate anion-based ionic liquid gel polymer electrolytes (ILGPEs) for rechargeable lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1145-1155	2.6	29
28	Polymeric Ionic Liquid-poly(ethylene glycol) Composite Polymer Electrolytes for High-Temperature Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 328-334	4.3	13
27	Single lithium-ion polymer electrolytes based on poly(ionic liquid)s for lithium-ion batteries. <i>Soft Matter</i> , 2018 , 14, 6313-6319	3.6	29
26	A new solid-state electrolyte based on polymeric ionic liquid for high-performance supercapacitor. <i>Ionics</i> , 2019 , 25, 241-251	2.7	13
25	Poly(Ionic Liquid)s-in-Salt Electrolytes with Co-coordination-Assisted Lithium-Ion Transport for Safe Batteries. <i>Joule</i> , 2019 , 3, 2687-2702	27.8	49
24	Polymeric ionic liquids for lithium-based rechargeable batteries. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 294-309	4.6	74

23	Influence of Cationic Poly(ionic liquid) Architecture on the Ion Dynamics in Polymer Gel Electrolytes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13225-13235	3.8	10
22	Functional ionic liquids: Cationic SEI-formers for lithium batteries. <i>Energy Storage Materials</i> , 2019 , 20, 108-117	19.4	14
21	Ionic Liquid Based Polymer Gel Electrolytes for Use with Germanium Thin Film Anodes in Lithium Ion Batteries. <i>ChemistryOpen</i> , 2019 , 8, 1429-1436	2.3	9
20	Lithium ion conducting polymerized ionic liquid pentablock terpolymers as solid-state electrolytes. <i>Polymer</i> , 2019 , 161, 128-138	3.9	11
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17	Ion Dynamics of Monomeric Ionic Liquids Polymerized within Silica Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44325-44334	9.5	5
16	A new strategy for enhancing the room temperature conductivity of solid-state electrolyte by using a polymeric ionic liquid. <i>Ionics</i> , 2020 , 26, 4803-4812	2.7	9
15	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. <i>Polymers</i> , 2020 , 12,	4.5	61
14	How Do Ionic Liquids Hold Ionomers? Computational and Experimental Analysis of Imidazolium Polymers Based on Ether and Alkyl Chain Variations Dissolved in an Ionic Liquid. <i>Macromolecules</i> , 2021 , 54, 1611-1622	5.5	4
13	In situ formation of polymer electrolytes using a dicationic imidazolium cross-linker for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5796-5806	13	3
12	Advanced porous materials from poly(ionic liquid)s: Challenges, applications and opportunities. <i>Chemical Engineering Journal</i> , 2021 , 411, 128528	14.7	15
11	Ionic liquid-Based solid electrolytes (ionogels) for application in rechargeable lithium battery. <i>Materials Today Energy</i> , 2021 , 20, 100643	7	14
10	Recent Advances in Application of Ionic Liquids in Electrolyte of Lithium Ion Batteries. <i>Journal of Energy Storage</i> , 2021 , 40, 102659	7.8	14
9	Ionic liquid glasses: properties and applications. <i>Russian Chemical Reviews</i> , 2021 , 90,	6.8	1
8	Guanidinium-Assisted Surface Matrix Engineering for Highly Efficient Perovskite Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2001906	24	67
7	Poly(ionic liquid)s with engineered nanopores for energy and environmental applications. <i>Polymer</i> , 2020 , 202, 122640	3.9	20
6	CHAPTER 3:Cationic and Anionic Polymerized Ionic Liquids: Properties for Applications. <i>RSC Smart Materials</i> , 2017 , 83-116	0.6	

5	CHAPTER 8:Redox-active Immobilized Ionic Liquids and Polymer Ionic Liquids. <i>RSC Smart Materials</i> , 2017 , 225-261	0.6	
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