

Alexander S Shaplov

List of Publications by Year in descending order

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88
papers

3,969
citations

125106

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139680

61
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91
all docs

91
docs citations

91
times ranked

4308
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning CO ₂ Separation Performance of Ionic Liquids through Asymmetric Anions. <i>Molecules</i> , 2022, 27, 413.	1.7	3
2	Self-assembly of Li single-ion-conducting block copolymers for improved conductivity and viscoelastic properties. <i>Electrochimica Acta</i> , 2022, 413, 140126.	2.6	11
3	Structure conformational and rheological characterisation of alfalfa seed (<i>Medicago sativa</i> L.) galactomannan. <i>Carbohydrate Polymers</i> , 2021, 256, 117394.	5.1	15
4	Effects of repeat unit charge density on the physical and electrochemical properties of novel heterocationic poly(ionic liquid)s. <i>New Journal of Chemistry</i> , 2021, 45, 53-65.	1.4	8
5	Reinforcement of Styrene Butadiene Rubber Employing Poly(isobornyl methacrylate) (PIBOMA) as High T _g Thermoplastic Polymer. <i>Polymers</i> , 2021, 13, 1626.	2.0	6
6	Unique Carbonate-Based Single Ion Conducting Block Copolymers Enabling High-Voltage, All-Solid-State Lithium Metal Batteries. <i>Macromolecules</i> , 2021, 54, 6911-6924.	2.2	39
7	Cryotropic gel-forming capacity of alfalfa (<i>Medicago sativa</i> L.) and fenugreek (<i>Trigonella foenum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1	5.1	4
8	Structure conformation, physicochemical and rheological properties of flaxseed gums extracted under alkaline and acidic conditions. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 1217-1230.	3.6	19
9	Li Coordination of a Novel Asymmetric Anion in Ionic Liquid-in-Li Salt Electrolytes. <i>Journal of Physical Chemistry B</i> , 2020, 124, 861-870.	1.2	44
10	Poly(diallyldimethylammonium) based poly(ionic liquid) di- and triblock copolymers by PISA as matrices for ionogel membranes. <i>Polymer Chemistry</i> , 2020, 11, 1481-1488.	1.9	17
11	Tuning the miscibility of water in imide-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25236-25242.	1.3	6
12	Ionic Polyureasâ€”A Novel Subclass of Poly(Ionic Liquid)s for CO ₂ Capture. <i>Membranes</i> , 2020, 10, 240.	1.4	7
13	Poly(ionic liquid)â€”Ionic Liquid Membranes with Fluorosulfonyl-Derived Anions: Characterization and Biohydrogen Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7087-7096.	3.2	21
14	Expanding the chemistry of singleâ€”ion conducting poly(ionic liquid)s with polyhedral boron anions. <i>Polymer International</i> , 2019, 68, 1570-1579.	1.6	12
15	Metathesis Polymerization in Ionic Media. <i>Polymer Science - Series C</i> , 2019, 61, 2-16.	0.8	8
16	Ionic Liquid with Silyl Substituted Cation: Thermophysical and CO ₂ /N ₂ Permeation Properties. <i>Israel Journal of Chemistry</i> , 2019, 59, 852-865.	1.0	4
17	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.	1.5	19
18	Neat ionic liquids versus ionic liquid mixtures: a combination of experimental data and molecular simulation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23305-23309.	1.3	12

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19	Polyimides as cathodic materials in lithium batteries: Effect of the chemical structure of the diamine monomer. <i>Journal of Polymer Science Part A</i> , 2018, 56, 714-723.	2.5	25
20	Kinetic Features of Photoinduced Radical (Co)Polymerization of Ionic Monomers. <i>Polymer Science - Series B</i> , 2018, 60, 760-771.	0.3	3
21	Synthesis of novel families of conductive cationic poly(ionic liquid)s and their application in all-polymer flexible pseudo-supercapacitors. <i>Electrochimica Acta</i> , 2018, 281, 777-788.	2.6	26
22	Design of ionic liquid like monomers towards easy-accessible single-ion conducting polymer electrolytes. <i>European Polymer Journal</i> , 2018, 107, 218-228.	2.6	35
23	All-solid state ionic actuators based on polymeric ionic liquids and electronic conducting polymers. , 2018, , .		2
24	Influence of anion structure on ion dynamics in polymer gel electrolytes composed of poly(ionic) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 5	2.6	42
25	Poly(ionic liquid)-based polyurethanes having imidazolium, ammonium, morpholinium or pyrrolidinium cations. <i>High Performance Polymers</i> , 2017, 29, 691-703.	0.8	11
26	Single Ion Conducting Polymer Electrolytes Based On Versatile Polyurethanes. <i>Electrochimica Acta</i> , 2017, 241, 526-534.	2.6	86
27	Ionic Polyurethanes as a New Family of Poly(ionic liquid)s for Efficient CO ₂ Capture. <i>Macromolecules</i> , 2017, 50, 2814-2824.	2.2	49
28	Exploring the effect of fluorinated anions on the CO ₂ /N ₂ separation of supported ionic liquid membranes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28876-28884.	1.3	25
29	Single-ion triblock copolymer electrolytes based on poly(ethylene oxide) and methacrylic sulfonamide blocks for lithium metal batteries. <i>Journal of Power Sources</i> , 2017, 364, 191-199.	4.0	130
30	Ionic liquids with anions based on fluorosulfonyl derivatives: from asymmetrical substitutions to a consistent force field model. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29617-29624.	1.3	49
31	Effect of Viscosity of Dimethacrylate Ester-Based Compositions on the Kinetics of Their Photopolymerization in Presence of o-Quinone Photoinitiators. <i>Polymer Science - Series B</i> , 2017, 59, 665-673.	0.3	8
32	Probing the effect of anion structure on the physical properties of cationic 1,2,3- λ -triazolium-based poly(ionic liquid)s. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2191-2199.	2.5	21
33	Poly(ionic liquid)s: Synthesis, properties, and application. <i>Polymer Science - Series B</i> , 2016, 58, 73-142.	0.3	95
34	Single-Ion Block Copoly(ionic liquid)s as Electrolytes for All-Solid State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10350-10359.	4.0	251
35	Single-Ion Conducting Polymer Electrolytes for Lithium Metal Polymer Batteries that Operate at Ambient Temperature. <i>ACS Energy Letters</i> , 2016, 1, 678-682.	8.8	270
36	A New Volume-Based Approach for Predicting Thermophysical Behavior of Ionic Liquids and Ionic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2016, 138, 10076-10079.	6.6	69

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37	Turning into poly(ionic liquid)s as a tool for polyimide modification: synthesis, characterization and CO ₂ separation properties. <i>Polymer Chemistry</i> , 2016, 7, 580-591.	1.9	81
38	New Polyimides As Electrode Materials for Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
39	Single-Ion Block and Random Copoly(ionic liquid)s As Innovative Electrolytes for All-Solid State Li Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
40	Unconventional poly(ionic liquid)s combining motionless main chain 1,2,3-triazolium cations and high ionic conductivity. <i>Polymer Chemistry</i> , 2015, 6, 4299-4308.	1.9	44
41	Recent Advances in Innovative Polymer Electrolytes based on Poly(ionic liquid)s. <i>Electrochimica Acta</i> , 2015, 175, 18-34.	2.6	371
42	Ionic semi-interpenetrating networks as a new approach for highly conductive and stretchable polymer materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2188-2198.	5.2	47
43	Ionic conductivity and molecular dynamic behavior in supramolecular ionic networks; the effect of lithium salt addition. <i>Electrochimica Acta</i> , 2015, 175, 74-79.	2.6	13
44	New family of highly conductive and low viscous ionic liquids with asymmetric 2,2,2-trifluoromethylsulfonyl-N-cyanoamide anion. <i>Electrochimica Acta</i> , 2015, 175, 254-260.	2.6	26
45	Supramolecular ionic networks with superior thermal and transport properties based on novel delocalized di-anionic compounds. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2338-2343.	5.2	22
46	New membrane materials based on crosslinked poly(ethylene glycols) and ionic liquids for separation of gas mixtures containing CO ₂ . <i>Polymer Science - Series B</i> , 2014, 56, 900-908.	0.3	8
47	Solid-state electrolytes based on ionic network polymers. <i>Polymer Science - Series B</i> , 2014, 56, 164-177.	0.3	22
48	A first truly all-solid state organic electrochromic device based on polymeric ionic liquids. <i>Chemical Communications</i> , 2014, 50, 3191-3193.	2.2	68
49	Truly solid state electrochromic devices constructed from polymeric ionic liquids as solid electrolytes and electrodes formulated by vapor phase polymerization of 3,4-ethylenedioxythiophene. <i>Polymer</i> , 2014, 55, 3385-3396.	1.8	57
50	Synthesis and properties of polymeric analogs of ionic liquids. <i>Polymer Science - Series B</i> , 2013, 55, 122-138.	0.3	46
51	Gas separation characteristics of new membrane materials based on poly(ethylene glycol)-crosslinked polymers and ionic liquids. <i>Petroleum Chemistry</i> , 2012, 52, 494-498.	0.4	21
52	Thiol-ene Click Chemistry as a Tool for a Novel Family of Polymeric Ionic Liquids. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1359-1369.	1.1	19
53	Design and synthesis of new anionic polymeric ionic liquids with high charge delocalization. <i>Polymer Chemistry</i> , 2011, 2, 2609.	1.9	96
54	Polymeric Ionic Liquids: Comparison of Polycations and Polyanions. <i>Macromolecules</i> , 2011, 44, 9792-9803.	2.2	84

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55	New ionic liquids with hydrolytically stable anions as alternatives to hexafluorophosphate and tetrafluoroborate salts in the free radical polymerization and preparation of ion-conducting composites. <i>Polymer Journal</i> , 2011, 43, 126-135.	1.3	28
56	Bis(trifluoromethylsulfonyl)amide based α - ω -polymeric ionic liquids. Synthesis, purification and peculiarities of structure-properties relationships. <i>Electrochimica Acta</i> , 2011, 57, 74-90.	2.6	84
57	Polycapromamide films containing ionic liquids: Microstructure and properties. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011, 75, 211-216.	0.1	0
58	Polymerization of the new double-charged monomer bis(1,3-trimethylammonium dicyanamide)- α - ω -propylmethacrylate and ionic conductivity of the novel polyelectrolytes. <i>Polymers for Advanced Technologies</i> , 2011, 22, 448-457.	1.6	18
59	Crystal packing and reactivity of di(meth)acrylates of some derivatives of hydroquinone and pyrocatechol in melts. <i>Polymer Science - Series B</i> , 2010, 52, 203-213.	0.3	2
60	Polymers based on ionic monomers with side phosphonate groups. <i>Polymer Science - Series B</i> , 2010, 52, 316-326.	0.3	21
61	Macroinitiators of controlled free-radical polymerization of methyl methacrylate that are based on the tributyl boron-naphthoquinone system. <i>Polymer Science - Series B</i> , 2010, 52, 520-527.	0.3	3
62	Influence of ionic liquid anion nature on the properties of Eu-containing luminescent materials. <i>Optical Materials</i> , 2010, 32, 707-710.	1.7	8
63	Photopolymerization of poly(ethylene glycol) dimethacrylates: The influence of ionic liquids on the formulation and the properties of the resultant polymer materials. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2388-2409.	2.5	36
64	Synthesis and characterization of grafted copolymers of aromatic polyimides and ϵ -caprolactam. <i>Journal of Applied Polymer Science</i> , 2009, 114, 577-586.	1.3	10
65	Ionic IPNs as novel candidates for highly conductive solid polymer electrolytes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4245-4266.	2.5	56
66	Electrochemical supercapacitor with electrolyte based on an ionic liquid. <i>Russian Journal of Electrochemistry</i> , 2009, 45, 949-950.	0.3	7
67	IR and X-ray Study of Polymorphism in 1-Alkyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imides. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9538-9546.	1.2	82
68	Ionic liquids as catalytic additives for the acceleration of the photopolymerization of poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2009, 114, 577-586.	1.6	21
69	Conductive Polymer Electrolytes Derived from Poly(norbornene)s with Pendant Ionic Imidazolium Moieties. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 40-51.	1.1	62
70	Novel phosphonated poly(1,3,4-oxadiazole)s: Synthesis in ionic liquid and characterization. <i>Reactive and Functional Polymers</i> , 2008, 68, 208-224.	2.0	25
71	Thermochemical properties of 1-butyl-3-methylimidazolium nitrate. <i>Thermochimica Acta</i> , 2008, 474, 25-31.	1.2	72
72	A novel facile synthesis of carbamoylmethylphosphine oxides in ionic liquids. <i>Tetrahedron Letters</i> , 2008, 49, 1641-1644.	0.7	13

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73	Free-radical polymerization of C-vinyltetrazoles: Effect of the nature of ionic solvents. <i>Polymer Science - Series B</i> , 2008, 50, 193-197.	0.3	3
74	Cyclopolymerization of <i>N,N</i> -Dipropargylamines and <i>N,N</i> -Dipropargyl Ammonium Salts. <i>Macromolecules</i> , 2008, 41, 1919-1928.	2.2	67
75	Thermodynamic properties of 1-alkyl-3-methylimidazolium bromide ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 158-166.	1.0	117
76	The influence of ionic liquid's nature on free radical polymerization of vinyl monomers and ionic conductivity of the obtained polymeric materials. <i>Polymers for Advanced Technologies</i> , 2007, 18, 50-63.	1.6	92
77	Synthesis and ionic conductivity of polymer ionic liquids. <i>Polymer Science - Series A</i> , 2007, 49, 256-261.	0.4	29
78	Ring-Opening Metathesis Polymerization (ROMP) in Ionic Liquids: Scope and Limitations. <i>Macromolecules</i> , 2006, 39, 7821-7830.	2.2	94
79	One-pot synthesis of aromatic poly(1,3,4-oxadiazole)s in novel solvents ionic liquids. <i>Journal of Polymer Science Part A</i> , 2006, 44, 380-394.	2.5	44
80	Ionic-liquid-promoted Michaelis-Arbuzov rearrangement. <i>Tetrahedron Letters</i> , 2006, 47, 7645-7648.	0.7	40
81	Crystal structure of 1,3-dialkyldiazolium bromides. <i>Russian Chemical Bulletin</i> , 2006, 55, 1989-1999.	0.4	28
82	Extremely short C-H...F contacts in the 1-methyl-3-propyl-imidazolium SiF ₆ the reason for ionic liquid's unexpected high melting point. <i>CrystEngComm</i> , 2005, 7, 53-56.	1.3	49
83	Cocrystal of an Ionic Liquid with Organic Molecules as a Mimic of Ionic Liquid Solution. <i>Crystal Growth and Design</i> , 2005, 5, 337-340.	1.4	27
84	Long-awaited polymorphic modification of triphenyl phosphite. <i>CrystEngComm</i> , 2005, 7, 465.	1.3	16
85	Implementation of ionic liquids as activating media for polycondensation processes. <i>Polymer</i> , 2004, 45, 5031-5045.	1.8	105
86	Direct polycondensation in ionic liquids. <i>European Polymer Journal</i> , 2004, 40, 2065-2075.	2.6	98
87	Ionic Liquids as Novel Reaction Media for the Synthesis of Condensation Polymers. <i>Macromolecular Rapid Communications</i> , 2002, 23, 676-680.	2.0	130
88	Synthesis of Polymers in Ionic Liquids as New Reaction Media. <i>Doklady Chemistry</i> , 2001, 381, 353-356.	0.2	5