

# Petr S Vlasov

## List of Publications by Year in descending order

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52  
papers

1,045  
citations

430874

18  
h-index

434195

31  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and synthesis of new anionic polymeric ionic liquids with high charge delocalization. <i>Polymer Chemistry</i> , 2011, 2, 2609.	3.9	96
2	Polymeric Ionic Liquids: Comparison of Polycations and Polyanions. <i>Macromolecules</i> , 2011, 44, 9792-9803.	4.8	84
3	Turning into poly(ionic liquid)s as a tool for polyimide modification: synthesis, characterization and CO <sub>2</sub> separation properties. <i>Polymer Chemistry</i> , 2016, 7, 580-591.	3.9	81
4	Cyclopolymerization of <i>N,N</i> -Dipropargylamines and <i>N,N</i> -Dipropargyl Ammonium Salts. <i>Macromolecules</i> , 2008, 41, 1919-1928.	4.8	67
5	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.	3.8	57
6	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.	10.3	47
7	Synthesis and properties of polymeric analogs of ionic liquids. <i>Polymer Science - Series B</i> , 2013, 55, 122-138.	0.8	46
8	Influence of anion structure on ion dynamics in polymer gel electrolytes composed of poly(ionic) Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 4	3.2	42
9	Unique Carbonate-Based Single Ion Conducting Block Copolymers Enabling High-Voltage, All-Solid-State Lithium Metal Batteries. <i>Macromolecules</i> , 2021, 54, 6911-6924.	4.8	39
10	Design of ionic liquid like monomers towards easy-accessible single-ion conducting polymer electrolytes. <i>European Polymer Journal</i> , 2018, 107, 218-228.	5.4	35
11	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.	2.7	28
12	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.	5.2	26
13	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.	5.2	26
14	Nickel-Salen Type Polymers as Cathode Materials for Rechargeable Lithium Batteries. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700361.	2.2	25
15	Solid-state electrolytes based on ionic network polymers. <i>Polymer Science - Series B</i> , 2014, 56, 164-177.	0.8	22
16	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.	10.3	22
17	Hyperbranched pyridylphenylene polymers based on the first-generation dendrimer as a multifunctional monomer. <i>RSC Advances</i> , 2015, 5, 99510-99516.	3.6	21
18	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.	2.2	19

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19	Synthesis and chemosensing properties of cinnoline-containing poly(arylene ethynylene)s. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 373-384.	2.2	19
20	Novel highly conductive cathode material based on stable-radical organic framework and polymerized nickel complex for electrochemical energy storage devices. <i>Electrochimica Acta</i> , 2019, 295, 1075-1084.	5.2	19
21	Novel thermosensitive telechelic PEGs with antioxidant activity: synthesis, molecular properties and conformational behaviour. <i>RSC Advances</i> , 2014, 4, 41763-41771.	3.6	17
22	Water-stable [Ni(salen)]-type electrode material based on phenylazosubstituted salicylic aldehyde imine ligand. <i>New Journal of Chemistry</i> , 2017, 41, 13918-13928.	2.8	16
23	Molecular properties of the copolymers of N,N-diallyl-N,N-dimethylammonium chloride and maleic acid. <i>Polymer Science - Series A</i> , 2011, 53, 93-101.	1.0	13
24	Copolymers of diallyldimethylammonium chloride and 2-(diallyl(methyl) ammonio) acetate: Effect of composition and ionic strength on conformational properties. <i>European Polymer Journal</i> , 2016, 84, 268-278.	5.4	13
25	Aryl-Aryl Coupling of Salicylic Aldehydes through Oxidative CH activation in Nickel Salen Derivatives. <i>ChemistrySelect</i> , 2019, 4, 8886-8890.	1.5	12
26	Molecular properties of poly(carboxybetaine) in solutions with different ionic strengths and pH values. <i>Polymer Science - Series A</i> , 2011, 53, 1012-1018.	1.0	11
27	Poly(ionic liquid)-based polyurethanes having imidazolium, ammonium, morpholinium or pyrrolidinium cations. <i>High Performance Polymers</i> , 2017, 29, 691-703.	1.8	11
28	Sulfonated Polycatechol Immobilized in a Conductive Polymer for Enhanced Energy Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 5070-5078.	5.1	11
29	Modified hydroxyethyl starch protects cells from oxidative damage. <i>Carbohydrate Polymers</i> , 2015, 134, 314-323.	10.2	10
30	Macromolecular antioxidants based on polysaccharides and 2,6-diisobornyl-4-methylphenol derivatives. <i>Chemistry of Natural Compounds</i> , 2012, 48, 531-534.	0.8	9
31	Dynamic surface properties of poly(methylalkyldiallylammonium chloride) solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 122-127.	5.3	9
32	Functionalized polyampholytes on the basis of copolymers of N,N-diallyl-N,N-dimethylammonium chloride and maleic acid. <i>Russian Journal of General Chemistry</i> , 2010, 80, 1314-1319.	0.8	8
33	Effect of Chemical Structure and Charge Distribution on Behavior of Polyzwitterions in Solution. <i>Macromolecular Symposia</i> , 2012, 316, 17-24.	0.7	8
34	Synthesis and electrochemical properties of poly(3,4-dihydroxystyrene) and its composites with conducting polymers. <i>Synthetic Metals</i> , 2019, 256, 116151.	3.9	8
35	Electrochemical synthesis and characterization of poly [Ni(CH <sub>3</sub> Osalen)] with immobilized poly(styrenesulfonate) anion dopants. <i>Electrochimica Acta</i> , 2021, 368, 137637.	5.2	8
36	Synthesis and biological activity of metal chitosan complexes. <i>Russian Journal of Applied Chemistry</i> , 2009, 82, 1675-1681.	0.5	7

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37	Network Formation of DNA/Polyelectrolyte Fibrous Aggregates Adsorbed at the Water–Air Interface. <i>Langmuir</i> , 2019, 35, 13967-13976.	3.5	7
38	Ionic Polyureas–A Novel Subclass of Poly(Ionic Liquid)s for CO <sub>2</sub> Capture. <i>Membranes</i> , 2020, 10, 240.	3.0	7
39	Diels–Alder Hyperbranched Pyridylphenylene Polymer Fractions as Alternatives to Dendrimers. <i>Macromolecules</i> , 2019, 52, 1882-1891.	4.8	6
40	Macromolecules of polycarboxybetaine poly(4-N,N-diallyl-N-methylammonio) butanoate: Synthesis and molecular characteristics. <i>Polymer</i> , 2017, 122, 34-44.	3.8	5
41	DNA Interaction with a Polyelectrolyte Monolayer at Solution–Air Interface. <i>Polymers</i> , 2021, 13, 2820.	4.5	5
42	The Implication of 1,3-Dipolar Cycloaddition of Azomethine Ylides to the Synthesis of Main-Chain Porphyrin Oligomers. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 516-529.	2.2	4
43	New Bis(salicylideneiminate) Nickel(II) Complexes with Carboxyethylene Linker Connecting Imine Groups and Their Electrochemical Polymerization. <i>Russian Journal of General Chemistry</i> , 2019, 89, 852-855.	0.8	4
44	Cationic electrolyte copolymers of diallyldimethylammonium chloride with carboxybetaine 2-(diallyl(methyl) ammonio) acetate of various compositions in water solutions of different ionic strengths. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	4
45	Kinetic Features of Photoinduced Radical (Co)Polymerization of Ionic Monomers. <i>Polymer Science - Series B</i> , 2018, 60, 760-771.	0.8	3
46	Nickel Salicylaldoxime-Based Coordination Polymer as a Cathode for Lithium-Ion Batteries. <i>Energies</i> , 2020, 13, 2480.	3.1	3
47	DNA penetration into a monolayer of amphiphilic polyelectrolyte. <i>Mendeleev Communications</i> , 2022, 32, 192-193.	1.6	2
48	Optimization of Sulfonated Polycatechol:PEDOT Energy Storage Performance by the Morphology Control. <i>Nanomaterials</i> , 2022, 12, 1917.	4.1	2
49	The dynamic surface properties of green fluorescent protein and its mixtures with poly(N,N-diallyl-N-hexyl-N-methylammonium chloride). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 122, 58-66.	5.3	1
50	Macromol. Chem. Phys. 24/2017. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1770079.	2.2	0
51	Influence of anions on behavior of cationic polyelectrolyte poly(diallyldimethylammonium chloride) and its copolymer in aqueous solutions. <i>Journal of Molecular Liquids</i> , 2022, 347, 118369.	4.9	0
52	A New In Vitro Blood Hyperviscosity Model. <i>Bulletin of Experimental Biology and Medicine</i> , 2022, 172, 504-506.	0.8	0