

# Piotr Jankowski

## List of Publications by Citations

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43  
papers

675  
citations

14  
h-index

24  
g-index

46  
ext. papers

921  
ext. citations

8.5  
avg, IF

4.43  
L-index

#	Paper	IF	Citations
43	Boosting Rechargeable Batteries R&D by Multiscale Modeling: Myth or Reality?. <i>Chemical Reviews</i> , <b>2019</b> , 119, 4569-4627	68.1	121
42	Diglyme Based Electrolytes for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2671-2680	6.1	61
41	Design of a Multifunctional Interlayer for NASICON-Based Solid-State Li Metal Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001444	15.6	57
40	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11483-11490	16.4	47
39	Highly Fluorescent Red-Light Emitting Bis(boranils) Based on Naphthalene Backbone. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 8234-8241	4.2	43
38	SEI-forming electrolyte additives for lithium-ion batteries: development and benchmarking of computational approaches. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 6	2	27
37	Fluorine-free electrolytes for all-solid sodium-ion batteries based on percyano-substituted organic salts. <i>Scientific Reports</i> , <b>2017</b> , 7, 40036	4.9	22
36	Influence of the diol structure on the Lewis acidity of phenylboronates. <i>Journal of Physical Organic Chemistry</i> , <b>2013</b> , 26, 415-419	2.1	21
35	Impact of Sulfur-Containing Additives on Lithium-Ion Battery Performance: From Computational Predictions to Full-Cell Assessments. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2582-2591	6.1	21
34	Towards a better understanding of vinylene carbonate derived SEI-layers by synthesis of reduction compounds. <i>Journal of Power Sources</i> , <b>2019</b> , 427, 77-84	8.9	20
33	Structural Studies of Lithium 4,5-Dicyanoimidazolate Diglyme Solvates. 1. From Isolated Free Ions to Conductive Aggregated Systems. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9108-9116	3.8	20
32	The effect of locking $\pi$ -conjugation in organoboron moieties in the structures of luminescent tetracoordinate boron complexes. <i>Dalton Transactions</i> , <b>2019</b> , 48, 8642-8663	4.3	17
31	TFSI and TDI Anions: Probes for Solvate Ionic Liquid and Disproportionation-Based Lithium Battery Electrolytes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3678-3682	6.4	16
30	Functional ionic liquids: Cationic SEI-formers for lithium batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 108-117	19.4	14
29	Structural Studies of Lithium 4,5-Dicyanoimidazolate Diglyme Solvates. 2. Ionic Aggregation Modes in Solution and PEO Matrix. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10247-10254	3.8	14
28	New boron based salts for lithium-ion batteries using conjugated ligands. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 16274-80	3.6	14
27	Cationic and Betaine-Type Boronated Acridinium Dyes: Synthesis, Characterization, and Photocatalytic Activity. <i>ACS Omega</i> , <b>2019</b> , 4, 2482-2492	3.9	11

26	Comparative investigation of solid electrolyte interphases created by the electrolyte additives vinyl ethylene carbonate and dicyano ketene vinyl ethylene acetal. <i>Journal of Power Sources</i> , <b>2017</b> , 345, 212-220	8.9	10
25	Structure of Magnesium Chloride Complexes in Ethereal Systems: Computational Comparison of THF and Glymes as Solvents for Magnesium Battery Electrolytes. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 1350-1359	5.6	10
24	Modeling of Ion Agglomeration in Magnesium Electrolytes and its Impacts on Battery Performance. <i>ChemSusChem</i> , <b>2020</b> , 13, 3599-3604	8.3	9
23	Charge storage mechanism of $\text{MnO}_2$ in protic and aprotic ionic liquid electrolytes. <i>Journal of Power Sources</i> , <b>2020</b> , 460, 228111	8.9	8
22	Facile reduction of pseudo-carbonates: Promoting solid electrolyte interphases with dicyanoketene alkylene acetals in lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 303, 1-9	8.9	8
21	Dual Role of Mo S in Polysulfide Conversion and Shuttle for Mg-S Batteries.. <i>Advanced Science</i> , <b>2022</b> , e2104605	13.6	7
20	Development of Magnesium Borate Electrolytes: Explaining the Success of $\text{Mg}[\text{B}(\text{hfp})_4]_2$ Salt. <i>Energy Storage Materials</i> , <b>2021</b> , 45, 1133-1133	19.4	7
19	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Li-S Batteries. <i>Small</i> , <b>2021</b> , 17, e2007242	11	7
18	Ab initio Molecular Dynamics Investigations of the Speciation and Reactivity of Deep Eutectic Electrolytes in Aluminum Batteries. <i>ChemSusChem</i> , <b>2021</b> , 14, 2034-2041	8.3	6
17	Understanding of Lithium 4,5-DicyanoimidazolatePoly(ethylene oxide) System: Influence of the Architecture of the Solid Phase on the Conductivity. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23358-23367	3.8	6
16	Synthesis, characterization and photoluminescence of 8-oxyquinolinato organoboron complexes derived from pyrazole. <i>Tetrahedron Letters</i> , <b>2017</b> , 58, 1185-1189	2	5
15	Amine- and Amide-Functionalized Mesoporous Carbons: A Strategy for Improving Sulfur/Host Interactions in LiS Batteries. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 757-765	5.6	5
14	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11580-11587	3.6	5
13	Coordination Abilities of 4,5-Dicyano-2-(trifluoromethyl)imidazolate Anion toward Sodium Cation: Structural and Spectroscopic Studies of Solid and Liquid Glyme-Solvated Electrolyte Systems. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26713-26721	3.8	5
12	Polymers for aluminium secondary batteries: Solubility, ionogel formation and chloroaluminate speciation. <i>Polymer</i> , <b>2021</b> , 224, 123707	3.9	5
11	Anion amphiprotic ionic liquids as protic electrolyte matrices allowing sodium metal plating. <i>Chemical Communications</i> , <b>2019</b> , 55, 12523-12526	5.8	5
10	Insight on the conductivity mechanism in sodium 4,5-dicyano-2-trifluoromethyl-imidazolid-poly(ethylene oxide) system. <i>Electrochimica Acta</i> , <b>2018</b> , 291, 161-167	6.7	4
9	Role of propylene carbonate chirality on physicochemical properties of the corresponding ion conductors. <i>Electrochimica Acta</i> , <b>2015</b> , 175, 240-246	6.7	3

8	Snapshots of the Hydrolysis of Lithium 4,5-Dicyanoimidazolates in Tetraglyme Solvates. Impact of Water Molecules on Aggregation Processes in Lithium-Ion Battery Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3201-3210	3.8	3
7	Chemically soft solid electrolyte interphase forming additives for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22609-22618	13	3
6	Modeling of Electron-Transfer Kinetics in Magnesium Electrolytes: Influence of the Solvent on the Battery Performance. <i>ChemSusChem</i> , <b>2021</b> , 14, 4820-4835	8.3	3
5	Catching TFSI: A Computational-Experimental Approach to $\beta$ -Cyclodextrin-Based Host-Guest Systems as electrolytes for Li-Ion Batteries. <i>ChemSusChem</i> , <b>2018</b> , 11, 1942-1949	8.3	2
4	Influence of Ionic Coordination on the Cathode Reaction Mechanisms of Al/S Batteries. <i>Journal of Physical Chemistry C</i> ,	3.8	1
3	Designing High-Performant Lithium Battery Electrolytes by Utilizing Two Natures of Li + Coordination: LiTDI/LiTFSI in Tetraglyme. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 205-213	5.6	1
2	Prospects for Improved Magnesocene-Based Magnesium Battery Electrolytes. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1335-1343	5.6	0
1	Ab initio Molecular Dynamics Investigations of the Speciation and Reactivity of Deep Eutectic Electrolytes in Aluminum Batteries. <i>ChemSusChem</i> , <b>2021</b> , 14, 1973	8.3	