

Piotr Jankowski

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Dual Role of Mo S in Polysulfide Conversion and Shuttle for Mg-S Batteries.. <i>Advanced Science</i> , 2022 , e2104605	13.6	7
42	Development of Magnesium Borate Electrolytes: Explaining the Success of Mg[B(hfip)4]2 Salt. <i>Energy Storage Materials</i> , 2021 , 45, 1133-1133	19.4	7
41	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Li-S Batteries. <i>Small</i> , 2021 , 17, e2007242	11	7
40	Ab initio Molecular Dynamics Investigations of the Speciation and Reactivity of Deep Eutectic Electrolytes in Aluminum Batteries. <i>ChemSusChem</i> , 2021 , 14, 1973	8.3	
39	Ab initio Molecular Dynamics Investigations of the Speciation and Reactivity of Deep Eutectic Electrolytes in Aluminum Batteries. <i>ChemSusChem</i> , 2021 , 14, 2034-2041	8.3	6
38	Polymers for aluminium secondary batteries: Solubility, ionogel formation and chloroaluminate speciation. <i>Polymer</i> , 2021 , 224, 123707	3.9	5
37	Prospects for Improved Magnesocene-Based Magnesium Battery Electrolytes. <i>Batteries and Supercaps</i> , 2021 , 4, 1335-1343	5.6	0
36	Designing High-Performant Lithium Battery Electrolytes by Utilizing Two Natures of Li + Coordination: LiTDI/LiTFSI in Tetraglyme. <i>Batteries and Supercaps</i> , 2021 , 4, 205-213	5.6	1
35	Modeling of Electron-Transfer Kinetics in Magnesium Electrolytes: Influence of the Solvent on the Battery Performance. <i>ChemSusChem</i> , 2021 , 14, 4820-4835	8.3	3
34	Modeling of Ion Agglomeration in Magnesium Electrolytes and its Impacts on Battery Performance. <i>ChemSusChem</i> , 2020 , 13, 3599-3604	8.3	9
33	Amine- and Amide-Functionalized Mesoporous Carbons: A Strategy for Improving Sulfur/Host Interactions in LiS Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 757-765	5.6	5
32	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11483-11490	16.4	47
31	Multi-Electron Reactions Enabled by Anion-Based Redox Chemistry for High-Energy Multivalent Rechargeable Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 11580-11587	3.6	5
30	Design of a Multifunctional Interlayer for NASICON-Based Solid-State Li Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001444	15.6	57
29	Charge storage mechanism of MnO2 in protic and aprotic ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2020 , 460, 228111	8.9	8
28	Structure of Magnesium Chloride Complexes in Etheral Systems: Computational Comparison of THF and Glymes as Solvents for Magnesium Battery Electrolytes. <i>Batteries and Supercaps</i> , 2020 , 3, 1350-1359	5.6	10
27	Cationic and Betaine-Type Boronated Acridinium Dyes: Synthesis, Characterization, and Photocatalytic Activity. <i>ACS Omega</i> , 2019 , 4, 2482-2492	3.9	11

26	The effect of locking π -conjugation in organoboron moieties in the structures of luminescent tetracoordinate boron complexes. <i>Dalton Transactions</i> , 2019 , 48, 8642-8663	4.3	17
25	Towards a better understanding of vinylene carbonate derived SEI-layers by synthesis of reduction compounds. <i>Journal of Power Sources</i> , 2019 , 427, 77-84	8.9	20
24	Functional ionic liquids: Cationic SEI-formers for lithium batteries. <i>Energy Storage Materials</i> , 2019 , 20, 108-117	19.4	14
23	Boosting Rechargeable Batteries R&D by Multiscale Modeling: Myth or Reality?. <i>Chemical Reviews</i> , 2019 , 119, 4569-4627	68.1	121
22	Anion amphiprotic ionic liquids as protic electrolyte matrices allowing sodium metal plating. <i>Chemical Communications</i> , 2019 , 55, 12523-12526	5.8	5
21	Snapshots of the Hydrolysis of Lithium 4,5-Dicyanoimidazolate Glyme Solvates. Impact of Water Molecules on Aggregation Processes in Lithium-Ion Battery Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3201-3210	3.8	3
20	Catching TFSI: A Computational-Experimental Approach to β -Cyclodextrin-Based Host-Guest Systems as electrolytes for Li-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 1942-1949	8.3	2
19	Chemically soft solid electrolyte interphase forming additives for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22609-22618	13	3
18	Insight on the conductivity mechanism in sodium 4,5-dicyano-2-trifluoromethyl-imidazolidine-poly(ethylene oxide) system. <i>Electrochimica Acta</i> , 2018 , 291, 161-167	6.7	4
17	Diglyme Based Electrolytes for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2671-2680	6.1	61
16	Impact of Sulfur-Containing Additives on Lithium-Ion Battery Performance: From Computational Predictions to Full-Cell Assessments. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2582-2591	6.1	21
15	Fluorine-free electrolytes for all-solid sodium-ion batteries based on percyano-substituted organic salts. <i>Scientific Reports</i> , 2017 , 7, 40036	4.9	22
14	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> , 2017 , 345, 212-220	8.9	10
13	Synthesis, characterization and photoluminescence of 8-oxyquinolinato organoboron complexes derived from pyrazole. <i>Tetrahedron Letters</i> , 2017 , 58, 1185-1189	2	5
12	SEI-forming electrolyte additives for lithium-ion batteries: development and benchmarking of computational approaches. <i>Journal of Molecular Modeling</i> , 2017 , 23, 6	2	27
11	TFSI and TDI Anions: Probes for Solvate Ionic Liquid and Disproportionation-Based Lithium Battery Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3678-3682	6.4	16
10	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> , 2017 , 121, 26713-26721	3.8	5
9	Highly Fluorescent Red-Light Emitting Bis(boranils) Based on Naphthalene Backbone. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8234-8241	4.2	43

8	Facile reduction of pseudo-carbonates: Promoting solid electrolyte interphases with dicyanoketene alkylene acetals in lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 303, 1-9	8.9	8
7	New boron based salts for lithium-ion batteries using conjugated ligands. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16274-80	3.6	14
6	Understanding of Lithium 4,5-Dicyanoimidazolate/Poly(ethylene oxide) System: Influence of the Architecture of the Solid Phase on the Conductivity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23358-23367	3.8	6
5	Structural Studies of Lithium 4,5-Dicyanoimidazolate/Elyme Solvates. 2. Ionic Aggregation Modes in Solution and PEO Matrix. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10247-10254	3.8	14
4	Role of propylene carbonate chirality on physicochemical properties of the corresponding ion conductors. <i>Electrochimica Acta</i> , 2015 , 175, 240-246	6.7	3
3	Structural Studies of Lithium 4,5-Dicyanoimidazolate/Elyme Solvates. 1. From Isolated Free Ions to Conductive Aggregated Systems. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9108-9116	3.8	20
2	Influence of the diol structure on the Lewis acidity of phenylboronates. <i>Journal of Physical Organic Chemistry</i> , 2013 , 26, 415-419	2.1	21
1	Influence of Ionic Coordination on the Cathode Reaction Mechanisms of Al/S Batteries. <i>Journal of Physical Chemistry C</i> ,	3.8	1