

Isidora Cekic-Laskovic

List of Publications by Year in descending order

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64
papers

2,770
citations

172457

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all docs

65
docs citations

65
times ranked

2525
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Throughput Experimentation and Computational Freeway Lanes for Accelerated Battery Electrolyte and Interface Development Research. <i>Advanced Energy Materials</i> , 2022, 12, 2102678.	19.5	40
2	Face to Face at the Cathode Electrolyte Interphase: From Interface Features to Interphase Formation and Dynamics. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	38
3	Interfacing Si-Based Electrodes: Impact of Liquid Electrolyte and Its Components. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	9
4	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	70
5	Advanced Battery Materials and Interfaces: A European Perspective. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	1
6	Editorial to the Special Issue: How to Reinvent the Ways to Invent the Batteries of the Future – the Battery 2030+ Large-Scale Research Initiative Roadmap. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	6
7	Learning the laws of lithium-ion transport in electrolytes using symbolic regression. , 2022, 1, 440-447.		6
8	Electrolytes: From a Thorn Comes a Rose, and from a Rose, a Thorn. <i>Israel Journal of Chemistry</i> , 2021, 61, 85-93.	2.3	4
9	Strategies towards enabling lithium metal in batteries: interphases and electrodes. <i>Energy and Environmental Science</i> , 2021, 14, 5289-5314.	30.8	156
10	Host-Guest Interactions Enhance the Performance of Viologen Electrolytes for Aqueous Organic Redox Flow Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 923-928.	4.7	18
11	Understanding the Effectiveness of Phospholane Electrolyte Additives in Lithium-Ion Batteries under High-Voltage Conditions. <i>ChemElectroChem</i> , 2021, 8, 972-982.	3.4	5
12	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1036-1052.	48.7	201
13	Data Management Plans: the Importance of Data Management in the BIG-MAP Project**. <i>Batteries and Supercaps</i> , 2021, 4, 1803-1812.	4.7	19
14	Supramolecular Viologen-Cyclodextrin Electrolytes for Aqueous Organic Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 12353-12364.	5.1	11
15	Propylene carbonate-nitrile solvent blends for thermally stable gel polymer lithium ion battery electrolytes. <i>Journal of Power Sources</i> , 2020, 478, 229047.	7.8	14
16	An oxo-verdazyl radical for a symmetrical non-aqueous redox flow battery. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22280-22291.	10.3	34
17	Impact of single vs. blended functional electrolyte additives on interphase formation and overall lithium ion battery performance. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 3145-3156.	2.5	3
18	Conventional Electrolyte and Inactive Electrode Materials in Lithium-Ion Batteries: Determining Cumulative Impact of Oxidative Decomposition at High Voltage. <i>ChemSusChem</i> , 2020, 13, 5301-5307.	6.8	24

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19	Toward adequate control of internal interfaces utilizing nitrile-based electrolytes. <i>Journal of Chemical Physics</i> , 2020, 152, 174701.	3.0	8
20	Non-flammable Fluorinated Phosphorus(III)-Based Electrolytes for Advanced Lithium-Ion Battery Performance. <i>ChemElectroChem</i> , 2020, 7, 1499-1508.	3.4	13
21	Acyclic Acetals in Propylene Carbonate-Based Electrolytes for Advanced and Safer Graphite-Based Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 040509.	2.9	14
22	Methyl-group functionalization of pyrazole-based additives for advanced lithium ion battery electrolytes. <i>Journal of Power Sources</i> , 2020, 461, 228159.	7.8	10
23	Fluor und Lithium: Ideale Partner für Elektrolyte in wiederaufladbaren Hochleistungsbatterien. <i>Angewandte Chemie</i> , 2019, 131, 16124-16147.	2.0	31
24	Fluorine and Lithium: Ideal Partners for High-Performance Rechargeable Battery Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15978-16000.	13.8	243
25	Tetrahydrothiophene 1-oxide as highly effective co-solvent for propylene carbonate-based electrolytes. <i>Journal of Power Sources</i> , 2019, 437, 226881.	7.8	9
26	Butyronitrile-Based Electrolytes for Fast Charging of Lithium-Ion Batteries. <i>Energies</i> , 2019, 12, 2869.	3.1	17
27	LiPF ₆ Stabilizer and Transition-Metal Cation Scavenger: A Bifunctional Bipyridine-Based Ligand for Lithium-Ion Battery Application. <i>Chemistry of Materials</i> , 2019, 31, 4025-4033.	6.7	22
28	Fluorinated Cyclic Phosphorus(III)-Based Electrolyte Additives for High Voltage Application in Lithium-Ion Batteries: Impact of Structure-Reactivity Relationships on CEI Formation and Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16605-16618.	8.0	27
29	Grafted polyrotaxanes as highly conductive electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 409, 148-158.	7.8	59
30	(Invited) Impact of Functional Electrolyte Additives (Single, Multifunctional and Blended) on Advanced Performance of Nonaqueous Electrolytes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
31	Semi-Interpenetrating Networks for All-Solid-State Lithium Metal Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
32	Interfaces and Materials in Lithium Ion Batteries: Challenges for Theoretical Electrochemistry. <i>Topics in Current Chemistry</i> , 2018, 376, 16.	5.8	72
33	Fluorinated Electrolyte Compound as a Bi-Functional Interphase Additive for Both, Anodes and Cathodes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3525-A3530.	2.9	29
34	Intrinsically Safe Gel Polymer Electrolyte Comprising Flame-Retarding Polymer Matrix for Lithium Ion Battery Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42348-42355.	8.0	49
35	Interfaces and Materials in Lithium Ion Batteries: Challenges for Theoretical Electrochemistry. <i>Topics in Current Chemistry Collections</i> , 2018, , 23-51.	0.5	8
36	Impact of Trifluoromethylation of Adiponitrile on Aluminum Dissolution Behavior in Dinitrile-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3773-A3781.	2.9	25

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37	Electrolyte solvents for high voltage lithium ion batteries: ion correlation and specific anion effects in adiponitrile. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25701-25715.	2.8	41
38	Supramolecular Self-Assembly of Methylated Rotaxanes for Solid Polymer Electrolyte Application. <i>ACS Macro Letters</i> , 2018, 7, 881-885.	4.8	46
39	Influence of the Fluorination Degree of Organophosphates on Flammability and Electrochemical Performance in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1935-A1942.	2.9	15
40	A propylene carbonate based gel polymer electrolyte for extended cycle life and improved safety performance of lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 397, 343-351.	7.8	47
41	Understanding transport mechanisms in ionic liquid/carbonate solvent electrolyte blends. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16579-16591.	2.8	62
42	Magnesium-based additives for the cathode slurry to enable high voltage application of lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 228, 9-17.	5.2	16
43	Phosphorus additives for improving high voltage stability and safety of lithium ion batteries. <i>Journal of Fluorine Chemistry</i> , 2017, 198, 24-33.	1.7	54
44	Influence of LiPF ₆ on the Aluminum Current Collector Dissolution in High Voltage Lithium Ion Batteries after Long-Term Charge/Discharge Experiments. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1474-A1479.	2.9	40
45	Trimethylsiloxy based metal complexes as electrolyte additives for high voltage application in lithium ion cells. <i>Electrochimica Acta</i> , 2017, 235, 332-339.	5.2	24
46	Synergistic Effect of Blended Components in Nonaqueous Electrolytes for Lithium Ion Batteries. <i>Topics in Current Chemistry</i> , 2017, 375, 37.	5.8	103
47	Evaluation of Allylboronic Acid Pinacol Ester as Effective Shutdown Overcharge Additive for Lithium Ion Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, A168-A172.	2.9	14
48	Shutdown potential adjustment of modified carbene adducts as additives for lithium ion battery electrolytes. <i>Journal of Power Sources</i> , 2017, 367, 72-79.	7.8	14
49	Innovative, Non-Corrosive LiTFSI Cyanoester-Based Electrolyte for Safer 4V Lithium Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 304-309.	3.4	19
50	Nickel Network Derived from a Block Copolymer Template for MnO ₂ Electrodes as Dimensionally Stabilized Lithium Ion Battery Anodes. <i>Energy Technology</i> , 2017, 5, 715-724.	3.8	4
51	Alternative Single-Solvent Electrolytes Based on Cyanoesters for Safer Lithium Ion Batteries. <i>ChemSusChem</i> , 2016, 9, 1704-1711.	6.8	30
52	Counterintuitive Role of Magnesium Salts as Effective Electrolyte Additives for High Voltage Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600096.	3.7	57
53	Lifetime limit of tris(trimethylsilyl) phosphite as electrolyte additive for high voltage lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 38342-38349.	3.6	70
54	High Voltage LiNi _{0.5} Mn _{1.5} O ₄ /Li ₄ Ti ₅ O ₁₂ Lithium Ion Cells at Elevated Temperatures: Carbonate- versus Ionic Liquid-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25971-25978.	8.0	78

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55	Impact of Selected LiPF ₆ Hydrolysis Products on the High Voltage Stability of Lithium-Ion Battery Cells. ACS Applied Materials & Interfaces, 2016, 8, 30871-30878.	8.0	66
56	Influence of lithium-cyclo-difluoromethane-1,1-bis(sulfonyl)imide as electrolyte additive on the reversibility of lithium metal batteries. Journal of Applied Electrochemistry, 2016, 46, 339-348.	2.9	3
57	Influence of the Fluorination Degree of Organophosphates on Flammability and Electrochemical Performance in Lithium Ion Batteries: Studies on Fluorinated Compounds Deriving from Triethyl Phosphate. Journal of the Electrochemical Society, 2016, 163, A751-A757.	2.9	49
58	Ester Modified Pyrrolidinium Based Ionic Liquids as Electrolyte Component Candidates in Rechargeable Lithium Batteries. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2536-2542.	1.2	10
59	New insights into the structure-property relationship of high-voltage electrolyte components for lithium-ion batteries using the pKa value. Electrochimica Acta, 2015, 184, 410-416.	5.2	119
60	Investigations on novel electrolytes, solvents and SEI additives for use in lithium-ion batteries: Systematic electrochemical characterization and detailed analysis by spectroscopic methods. Progress in Solid State Chemistry, 2014, 42, 65-84.	7.2	176
61	The influence of different conducting salts on the metal dissolution and capacity fading of NCM cathode material. Electrochimica Acta, 2014, 134, 393-398.	5.2	188
62	Vinyl sulfones as SEI-forming additives in propylene carbonate based electrolytes for lithium-ion batteries. Electrochemistry Communications, 2014, 40, 80-83.	4.7	78
63	1,3,2-Dioxathiolane-2,2-dioxide as film-forming agent for propylene carbonate based electrolytes for lithium-ion batteries. Electrochimica Acta, 2014, 125, 101-106.	5.2	38
64	Acetonitrile-based electrolytes for lithium-ion battery application. Current Topics in Electrochemistry, 0, 20, 1.	1.0	14