

Julian Self

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,434
citations

516710

16
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1733
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration-dependent ion correlations impact the electrochemical behavior of calcium battery electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 674-686.	2.8	13
2	Ion Correlations and Their Impact on Transport in Polymer-Based Electrolytes. <i>Macromolecules</i> , 2021, 54, 2575-2591.	4.8	50
3	Quantifying Species Populations in Multivalent Borohydride Electrolytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3644-3652.	2.6	17
4	Transport Phenomena in Low Temperature Lithium-Ion Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080501.	2.9	35
5	A Theoretical Model for Computing Freezing Point Depression of Lithium-Ion Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120532.	2.9	6
6	Onsager Transport Coefficients and Transference Numbers in Polyelectrolyte Solutions and Polymerized Ionic Liquids. <i>Macromolecules</i> , 2020, 53, 9503-9512.	4.8	42
7	The critical role of configurational flexibility in facilitating reversible reactive metal deposition from borohydride solutions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7235-7244.	10.3	37
8	Ion Pairing and Redissociation in Low-Permittivity Electrolytes for Multivalent Battery Applications. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2046-2052.	4.6	28
9	Uncharted Waters: Super-Concentrated Electrolytes. <i>Joule</i> , 2020, 4, 69-100.	24.0	305
10	The influence of FEC on the solvation structure and reduction reaction of LiPF ₆ /EC electrolytes and its implication for solid electrolyte interphase formation. <i>Nano Energy</i> , 2019, 64, 103881.	16.0	239
11	Transport in Superconcentrated LiPF ₆ and LiBF ₄ /Propylene Carbonate Electrolytes. <i>ACS Energy Letters</i> , 2019, 4, 2843-2849.	17.4	71
12	Ion Association Constants for Lithium Ion Battery Electrolytes from First-Principles Quantum Chemistry. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3554-A3558.	2.9	5
13	Ion Transport and the True Transference Number in Nonaqueous Polyelectrolyte Solutions for Lithium Ion Batteries. <i>ACS Central Science</i> , 2019, 5, 1250-1260.	11.3	126
14	The Interplay between Salt Association and the Dielectric Properties of Low Permittivity Electrolytes: The Case of LiPF ₆ and LiAsF ₆ in Dimethyl Carbonate. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1990-1994.	3.1	43
15	Random Numbers from a Delay Equation. <i>Journal of Nonlinear Science</i> , 2016, 26, 1311-1327.	2.1	2
16	Survey of Gas Expansion in Li-Ion NMC Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, A796-A802.	2.9	123
17	Sulfolane-Based Electrolyte for High Voltage Li(Ni _{0.42} Mn _{0.42} Co _{0.16})O ₂ (NMC442)/Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1424-A1431.	2.9	49
18	The role of prop-1-ene-1,3-sultone as an additive in lithium-ion cells. <i>Journal of Power Sources</i> , 2015, 298, 369-378.	7.8	58

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19	Dielectric Constants for Quantum Chemistry and Li-Ion Batteries: Solvent Blends of Ethylene Carbonate and Ethyl Methyl Carbonate. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22322-22330.	3.1	154
20	A systematic study of some promising electrolyte additives in Li[Ni _{1/3} Mn _{1/3} Co _{1/3}]O ₂ /graphite, Li[Ni _{0.5} Mn _{0.3} Co _{0.2}]/graphite and Li[Ni _{0.6} Mn _{0.2} Co _{0.2}]/graphite pouch cells. <i>Journal of Power Sources</i> , 2015, 299, 130-138.	7.8	31
21	Application of Spectral Density/Periodogram Analysis to Serial Neutrophil Counts to Diagnose Cyclic Neutropenia. <i>Blood</i> , 2015, 126, 4608-4608.	1.4	0