

# 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	Uncharted Waters: Super-Concentrated Electrolytes. <i>Joule</i> , 2020, 4, 69-100.	24.0	305
2	The influence of FEC on the solvation structure and reduction reaction of LiPF <sub>6</sub> /EC electrolytes and its implication for solid electrolyte interphase formation. <i>Nano Energy</i> , 2019, 64, 103881.	16.0	239
3	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
4	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
5	Survey of Gas Expansion in Li-Ion NMC Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, A796-A802.	2.9	123
6	Transport in Superconcentrated LiPF <sub>6</sub> and LiBF <sub>4</sub> /Propylene Carbonate Electrolytes. <i>ACS Energy Letters</i> , 2019, 4, 2843-2849.	17.4	71
7	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
8	Ion Correlations and Their Impact on Transport in Polymer-Based Electrolytes. <i>Macromolecules</i> , 2021, 54, 2575-2591.	4.8	50
9	Sulfolane-Based Electrolyte for High Voltage Li(Ni <sub>0.42</sub> Mn <sub>0.42</sub> Co <sub>0.16</sub> )O <sub>2</sub> (NMC442)/Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1424-A1431.	2.9	49
10	The Interplay between Salt Association and the Dielectric Properties of Low Permittivity Electrolytes: The Case of LiPF <sub>6</sub> and LiAsF <sub>6</sub> in Dimethyl Carbonate. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1990-1994.	3.1	43
11	Onsager Transport Coefficients and Transference Numbers in Polyelectrolyte Solutions and Polymerized Ionic Liquids. <i>Macromolecules</i> , 2020, 53, 9503-9512.	4.8	42
12	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
13	Transport Phenomena in Low Temperature Lithium-Ion Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080501.	2.9	35
14	A systematic study of some promising electrolyte additives in Li[Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> ]O <sub>2</sub> /graphite, Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]/graphite and Li[Ni <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> ]/graphite pouch cells. <i>Journal of Power Sources</i> , 2015, 299, 130-138.	7.8	31
15	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
16	Quantifying Species Populations in Multivalent Borohydride Electrolytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3644-3652.	2.6	17
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Random Numbers from a Delay Equation. <i>Journal of Nonlinear Science</i> , 2016, 26, 1311-1327.	2.1	2
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