Andreas Heckmann

List of Publications by Year
in descending order

17 papers	1,210 citations	687363 13 h-index	940533 16 g-index
18 all docs	18 docs citations	18 times ranked	1313 citing authors

#	Article	IF	Citations
1	Perspective on Performance, Cost, and Technical Challenges for Practical Dual-Ion Batteries. Joule, 2018, 2, 2528-2550.	24.0	312
2	Carbons from biomass precursors as anode materials for lithium ion batteries: New insights into carbonization and graphitization behavior and into their correlation to electrochemical performance. Carbon, 2018, 128, 147-163.	10.3	168
3	Does Size really Matter? New Insights into the Intercalation Behavior of Anions into a Graphite-Based Positive Electrode for Dual-Ion Batteries. Electrochimica Acta, 2016, 209, 44-55.	5.2	156
4	Towards high-performance dual-graphite batteries using highly concentrated organic electrolytes. Electrochimica Acta, 2018, 260, 514-525.	5.2	133
5	Ironâ€Catalyzed Graphitic Carbon Materials from Biomass Resources as Anodes for Lithiumâ€Ion Batteries. ChemSusChem, 2018, 11, 2776-2787.	6.8	81
6	New insights into electrochemical anion intercalation into carbonaceous materials for dual-ion batteries: Impact of the graphitization degree. Carbon, 2018, 131, 201-212.	10.3	75
7	Development of Safe and Sustainable Dualâ€Ion Batteries Through Hybrid Aqueous/Nonaqueous Electrolytes. Advanced Energy Materials, 2020, 10, 1902709.	19.5	51
8	Unravelling charge/discharge and capacity fading mechanisms in dual-graphite battery cells using an electron inventory model. Energy Storage Materials, 2019, 21, 414-426.	18.0	50
9	A route towards understanding the kinetic processes of bis(trifluoromethanesulfonyl) imide anion intercalation into graphite for dual-ion batteries. Electrochimica Acta, 2018, 284, 669-680.	5.2	41
10	Enabling High Performance Potassiumâ€Based Dualâ€Graphite Battery Cells by Highly Concentrated Electrolytes. Batteries and Supercaps, 2019, 2, 992-1006.	4.7	39
11	Suppression of Aluminum Current Collector Dissolution by Protective Ceramic Coatings for Better Highâ€Voltage Battery Performance. ChemPhysChem, 2017, 18, 156-163.	2.1	33
12	Editorsâ€™ Choiceâ€”Mechanistic Elucidation of Anion Intercalation into Graphite from Binary-Mixed Highly Concentrated Electrolytes via Complementary ¹⁹F MAS NMR and XRD Studies. Journal of the Electrochemical Society, 2020, 167, 140526.	2.9	31
13	Experimental and computational studies of electrochemical anion intercalation into graphite from target-oriented designed borate-based ionic liquid electrolytes. Journal of Power Sources, 2020, 469, 228397.	7.8	15
14	Hexafluorophosphate-Bis(trifluoromethanesulfonyl)imide anion co-intercalation for increased performance of dual-carbon battery using mixed salt electrolyte. Journal of Power Sources, 2020, 479, 229084.	7.8	14
15	Impact of Degree of Graphitization, Surface Properties and Particle Size Distribution on Electrochemical Performance of Carbon Anodes for Potassiumâ€Ion Batteries. Batteries and Supercaps, 2022, 5, .	4.7	9
16	Dualâ€Ion Batteries: Development of Safe and Sustainable Dualâ€Ion Batteries Through Hybrid Aqueous/Nonaqueous Electrolytes (Adv. Energy Mater. 8/2020). Advanced Energy Materials, 2020, 10, 2070033.	19.5	2
17	Enabling High Performance Potassiumâ€Based Dualâ€Graphite Battery Cells by Highly Concentrated Electrolytes. Batteries and Supercaps, 2019, 2, 967-967.	4.7	0