

Arthur V Cresce

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4260421/publications.pdf>

Version: 2024-02-01

42
papers

5,406
citations

186265

28
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

5949
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. <i>One Earth</i> , 2022, 5, 413-421.	6.8	10
2	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12438-12445.	13.8	69
3	Aqueous lithium-ion batteries. , 2021, 3, 721-751.		95
4	Gel electrolyte for a 4V flexible aqueous lithium-ion battery. <i>Journal of Power Sources</i> , 2020, 469, 228378.	7.8	20
5	Enabling high performance all-solid-state lithium metal batteries using solid polymer electrolytes plasticized with ionic liquid. <i>Electrochimica Acta</i> , 2020, 345, 136156.	5.2	42
6	Interfacially Induced Cascading Failure in Graphite-Silicon Composite Anodes. <i>Advanced Science</i> , 2019, 6, 1801007.	11.2	66
7	Insight on lithium metal anode interphasial chemistry: Reduction mechanism of cyclic ether solvent and SEI film formation. <i>Energy Storage Materials</i> , 2019, 17, 366-373.	18.0	97
8	Deciphering the Ethylene Carbonate-Propylene Carbonate Mystery in Li-Ion Batteries. <i>Accounts of Chemical Research</i> , 2018, 51, 282-289.	15.6	243
9	An artificial interphase enables reversible magnesium chemistry in carbonate electrolytes. <i>Nature Chemistry</i> , 2018, 10, 532-539.	13.6	347
10	Spray-Processed Composites with High Conductivity and Elasticity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13953-13962.	8.0	10
11	Correlating Li ⁺ -Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1739-1745.	4.6	26
12	Confined Lithium-Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. <i>ACS Nano</i> , 2018, 12, 9775-9784.	14.6	61
13	Multinuclear magnetic resonance investigation of cation-anion and anion-solvent interactions in carbonate electrolytes. <i>Journal of Power Sources</i> , 2018, 399, 215-222.	7.8	19
14	Solvation behavior of carbonate-based electrolytes in sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 574-586.	2.8	152
15	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. <i>ACS Nano</i> , 2017, 11, 10462-10471.	14.6	283
16	Water-in-Salt Electrolyte Makes Aqueous Sodium-Ion Battery Safe, Green, and Long-Lasting. <i>Advanced Energy Materials</i> , 2017, 7, 1701189.	19.5	487
17	Modeling Insight into Battery Electrolyte Electrochemical Stability and Interfacial Structure. <i>Accounts of Chemical Research</i> , 2017, 50, 2886-2894.	15.6	234
18	Ion Solvation and the Search for a Correlation with Electrode Passivation. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1740, 49.	0.1	0

#	ARTICLE	IF	CITATIONS
19	Anion Solvation in Carbonate-Based Electrolytes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27255-27264.	3.1	121
20	Atomic Force Microscopy Studies on Molybdenum Disulfide Flakes as Sodium-Ion Anodes. <i>Nano Letters</i> , 2015, 15, 1018-1024.	9.1	113
21	The Role of Cesium Cation in Controlling Interphasial Chemistry on Graphite Anode in Propylene Carbonate-Rich Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20687-20695.	8.0	41
22	Dendrite-Free Lithium Deposition with Self-Aligned Nanorod Structure. <i>Nano Letters</i> , 2014, 14, 6889-6896.	9.1	326
23	Dual-graphite chemistry enabled by a high voltage electrolyte. <i>Energy and Environmental Science</i> , 2014, 7, 617-620.	30.8	312
24	In Situ and Quantitative Characterization of Solid Electrolyte Interphases. <i>Nano Letters</i> , 2014, 14, 1405-1412.	9.1	237
25	Free-Standing Na _{2/3} Fe _{1/2} Mn _{1/2} O ₂ @Graphene Film for a Sodium-Ion Battery Cathode. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4242-4247.	8.0	88
26	Understanding Li ⁺ Solvent Interaction in Nonaqueous Carbonate Electrolytes with ¹⁷ O NMR. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1664-1668.	4.6	268
27	Li ⁺ -Solvation Structure Directs Interphasial Processes on Graphitic Anodes. <i>ECS Transactions</i> , 2012, 41, 187-193.	0.5	6
28	Phosphate-Based Compounds as Additives for 5-Volt Lithium-Ion Electrolytes. <i>ECS Transactions</i> , 2012, 41, 17-22.	0.5	5
29	Li ⁺ -solvation/desolvation dictates interphasial processes on graphitic anode in Li ion cells. <i>Journal of Materials Research</i> , 2012, 27, 2327-2341.	2.6	165
30	Correlating Li ⁺ Solvation Sheath Structure with Interphasial Chemistry on Graphite. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26111-26117.	3.1	166
31	Preferential Solvation of Li ⁺ Directs Formation of Interphase on Graphitic Anode. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, A154.	2.2	119
32	Interfacing electrolytes with electrodes in Li ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 9849.	6.7	327
33	Electrolyte Additive in Support of 5V Li Ion Chemistry. <i>Journal of the Electrochemical Society</i> , 2011, 158, A337.	2.9	212
34	Differentiating Contributions to α -olon Transfer Barrier from Interphasial Resistance and Li ⁺ Desolvation at Electrolyte/Graphite Interface. <i>Langmuir</i> , 2010, 26, 11538-11543.	3.5	438
35	Silk ⁺ elastinlike protein polymer hydrogels: Influence of monomer sequence on physicochemical properties. <i>Polymer</i> , 2009, 50, 366-374.	3.8	69
36	Block copolymer nanotemplating of tobacco mosaic and tobacco necrosis viruses. <i>Acta Biomaterialia</i> , 2009, 5, 893-902.	8.3	0

#	ARTICLE	IF	CITATIONS
37	Characterization and Real-Time Imaging of Gene Expression of Adenovirus Embedded Silk-Elastinlike Protein Polymer Hydrogels. <i>Molecular Pharmaceutics</i> , 2008, 5, 891-897.	4.6	31
38	Nanopatterning of Recombinant Proteins Using Block Copolymer Templates. <i>Macromolecules</i> , 2006, 39, 5826-5829.	4.8	17
39	Polydispersity control in ring opening metathesis polymerization of amphiphilic norbornene diblock copolymers. <i>Polymer</i> , 2003, 44, 4943-4948.	3.8	24
40	Properties of self-assembled ZnO nanostructures. <i>Solid-State Electronics</i> , 2002, 46, 1639-1642.	1.4	40
41	Structural and ferromagnetic resonance characteristics of BaFe ₁₂ O ₁₉ films with minimal linewidths. <i>Applied Physics Letters</i> , 2001, 79, 385-387.	3.3	16
42	Observation of nearly intrinsic ferromagnetic resonance linewidth in BaFe ₁₂ O ₁₉ films deposited by pulsed laser deposition. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2377-2379.	2.1	4