Arthur V Cresce

List of Publications by Year
in descending order

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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	â€œWaterâ€inâ€Saltâ€•Electrolyte Makes Aqueous Sodiumâ€Ion Battery Safe, Green, and Longâ€Lasting. Advanced Energy Materials, 2017, 7, 1701189.	19.5	487
2	Differentiating Contributions to â€œIon Transferâ€•Barrier from Interphasial Resistance and Li⁺ Desolvation at Electrolyte/Graphite Interface. Langmuir, 2010, 26, 11538-11543.	3.5	438
3	An artificial interphase enables reversible magnesium chemistry in carbonate electrolytes. Nature Chemistry, 2018, 10, 532-539.	13.6	347
4	Interfacing electrolytes with electrodes in Li ion batteries. Journal of Materials Chemistry, 2011, 21, 9849.	6.7	327
5	Dendrite-Free Lithium Deposition with Self-Aligned Nanorod Structure. Nano Letters, 2014, 14, 6889-6896.	9.1	326
6	Dual-graphite chemistry enabled by a high voltage electrolyte. Energy and Environmental Science, 2014, 7, 617-620.	30.8	312
7	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. ACS Nano, 2017, 11, 10462-10471.	14.6	283
8	Understanding Li⁺â€“Solvent Interaction in Nonaqueous Carbonate Electrolytes with ¹⁷O NMR. Journal of Physical Chemistry Letters, 2013, 4, 1664-1668.	4.6	268
9	Deciphering the Ethylene Carbonateâ€“Propylene Carbonate Mystery in Li-Ion Batteries. Accounts of Chemical Research, 2018, 51, 282-289.	15.6	243
10	In Situ and Quantitative Characterization of Solid Electrolyte Interphases. Nano Letters, 2014, 14, 1405-1412.	9.1	237
11	Modeling Insight into Battery Electrolyte Electrochemical Stability and Interfacial Structure. Accounts of Chemical Research, 2017, 50, 2886-2894.	15.6	234
12	Electrolyte Additive in Support of 5â€‚V Li Ion Chemistry. Journal of the Electrochemical Society, 2011, 158, A337.	2.9	212
13	Correlating Li⁺ Solvation Sheath Structure with Interphasial Chemistry on Graphite. Journal of Physical Chemistry C, 2012, 116, 26111-26117.	3.1	166
14	Li⁺-solvation/desolvation dictates interphasial processes on graphitic anode in Li ion cells. Journal of Materials Research, 2012, 27, 2327-2341.	2.6	165
15	Solvation behavior of carbonate-based electrolytes in sodium ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 574-586.	2.8	152
16	Anion Solvation in Carbonate-Based Electrolytes. Journal of Physical Chemistry C, 2015, 119, 27255-27264.	3.1	121
17	Preferential Solvation of Li+ Directs Formation of Interphase on Graphitic Anode. Electrochemical and Solid-State Letters, 2011, 14, A154.	2.2	119
18	Atomic Force Microscopy Studies on Molybdenum Disulfide Flakes as Sodium-Ion Anodes. Nano Letters, 2015, 15, 1018-1024.	9.1	113

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19	Insight on lithium metal anode interphasial chemistry: Reduction mechanism of cyclic ether solvent and SEI film formation. Energy Storage Materials, 2019, 17, 366-373.	18.0	97
20	Aqueous lithiumâ€ion batteries. , 2021, 3, 721-751.		95
21	Free-Standing Na_{2/3}Fe_{1/2}Mn_{1/2}O₂@Graphene Film for a Sodium-Ion Battery Cathode. ACS Applied Materials & Interfaces, 2014, 6, 4242-4247.	8.0	88
22	Silkâ€“elastinlike protein polymer hydrogels: Influence of monomer sequence on physicochemical properties. Polymer, 2009, 50, 366-374.	3.8	69
23	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 12438-12445.	13.8	69
24	Interfacially Induced Cascading Failure in Graphiteâ€Silicon Composite Anodes. Advanced Science, 2019, 6, 1801007.	11.2	66
25	Confined Lithiumâ€“Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. ACS Nano, 2018, 12, 9775-9784.	14.6	61
26	Enabling high performance all-solid-state lithium metal batteries using solid polymer electrolytes plasticized with ionic liquid. Electrochimica Acta, 2020, 345, 136156.	5.2	42
27	The Role of Cesium Cation in Controlling Interphasial Chemistry on Graphite Anode in Propylene Carbonate-Rich Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 20687-20695.	8.0	41
28	Properties of self-assembled ZnO nanostructures. Solid-State Electronics, 2002, 46, 1639-1642.	1.4	40
29	Characterization and Real-Time Imaging of Gene Expression of Adenovirus Embedded Silk-Elastinlike Protein Polymer Hydrogels. Molecular Pharmaceutics, 2008, 5, 891-897.	4.6	31
30	Correlating Li⁺-Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. Journal of Physical Chemistry Letters, 2018, 9, 1739-1745.	4.6	26
31	Polydispersity control in ring opening metathesis polymerization of amphiphilic norbornene diblock copolymers. Polymer, 2003, 44, 4943-4948.	3.8	24
32	Gel electrolyte for a 4V flexible aqueous lithium-ion battery. Journal of Power Sources, 2020, 469, 228378.	7.8	20
33	Multinuclear magnetic resonance investigation of cation-anion and anion-solvent interactions in carbonate electrolytes. Journal of Power Sources, 2018, 399, 215-222.	7.8	19
34	Nanopatterning of Recombinant Proteins Using Block Copolymer Templates. Macromolecules, 2006, 39, 5826-5829.	4.8	17
35	Structural and ferromagnetic resonance characteristics of BaFe12O19 films with minimal linewidths. Applied Physics Letters, 2001, 79, 385-387.	3.3	16
36	Spray-Processed Composites with High Conductivity and Elasticity. ACS Applied Materials & Interfaces, 2018, 10, 13953-13962.	8.0	10

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37	Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. One Earth, 2022, 5, 413-421.	6.8	10
38	Li⁺-Solvation Structure Directs Interphasial Processes on Graphitic Anodes. ECS Transactions, 2012, 41, 187-193.	0.5	6
39	Phosphate-Based Compounds as Additives for 5-Volt Lithium-Ion Electrolytes. ECS Transactions, 2012, 41, 17-22.	0.5	5
40	Observation of nearly intrinsic ferromagnetic resonance linewidth in BaFe/sub 12/O/sub 19/ films deposited by pulsed laser deposition. IEEE Transactions on Magnetics, 2001, 37, 2377-2379.	2.1	4
41	Block copolymer nanotemplating of tobacco mosaic and tobacco necrosis viruses. Acta Biomaterialia, 2009, 5, 893-902.	8.3	0
42	Ion Solvation and the Search for a Correlation with Electrode Passivation. Materials Research Society Symposia Proceedings, 2015, 1740, 49.	0.1	0