Parameswara Rao Chinnam

List of Publications by Year
in descending order

23 papers	685 citations	623734 14 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	1133 citing authors

#	Article	IF	Citations
1	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Liâ€Ion and Liâ€Metal Batteries. Advanced Energy Materials, 2021, 11, 2100372.	19.5	114
2	Polyoctahedral Silsesquioxane-Nanoparticle Electrolytes for Lithium Batteries: POSS-Lithium Salts and POSS-PEGs. Chemistry of Materials, 2011, 23, 5111-5121.	6.7	82
3	Engineered Interfaces in Hybrid Ceramicâ€“Polymer Electrolytes for Use in All-Solid-State Li Batteries. ACS Energy Letters, 2017, 2, 134-138.	17.4	75
4	Highly Durable, Self-Standing Solid-State Supercapacitor Based on an Ionic Liquid-Rich Ionogel and Porous Carbon Nanofiber Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 33749-33757.	8.0	55
5	Self-assembled Janus-like multi-ionic lithium salts form nano-structured solid polymer electrolytes with high ionic conductivity and Li⁺ion transference number. Journal of Materials Chemistry A, 2013, 1, 1731-1739.	10.3	54
6	Extended cycle life implications of fast charging for lithium-ion battery cathode. Energy Storage Materials, 2021, 41, 656-666.	18.0	50
7	Systematic Doping of Cobalt into Layered Manganese Oxide Sheets Substantially Enhances Water Oxidation Catalysis. Inorganic Chemistry, 2018, 57, 557-564.	4.0	43
8	A Comprehensive Understanding of the Aging Effects of Extreme Fast Charging on High Ni NMC Cathode. Advanced Energy Materials, 2022, 12, .	19.5	32
9	An alternative route to single ion conductivity using multi-ionic salts. Materials Horizons, 2018, 5, 461-473.	12.2	24
10	Gel Electrolyte Comprising Solvate Ionic Liquid and Methyl Cellulose. ACS Applied Energy Materials, 2020, 3, 279-289.	5.1	22
11	A Selfâ€Binding, Meltâ€Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie - International Edition, 2016, 55, 15254-15257.	13.8	21
12	Fast-Charging Aging Considerations: Incorporation and Alignment of Cell Design and Material Degradation Pathways. ACS Applied Energy Materials, 2021, 4, 9133-9143.	5.1	21
13	Bulk-Phase Ion Conduction in Cocrystalline LiClÂ·N,N-Dimethylformamide: A New Paradigm for Solid Electrolytes Based upon the Pearson Hardâ€“Soft Acidâ€“Base Concept. Chemistry of Materials, 2015, 27, 5479-5482.	6.7	19
14	Multi-ionic lithium salts increase lithium ion transference numbers in ionic liquid gel separators. Journal of Materials Chemistry A, 2016, 4, 14380-14391.	10.3	15
15	Lamellar, micro-phase separated blends of methyl cellulose and dendritic polyethylene glycol, POSS-PEG. Carbohydrate Polymers, 2016, 136, 19-29.	10.2	12
16	Unlocking Failure Mechanisms and Improvement of Practical Liâ€“S Pouch Cells through In Operando Pressure Study. Advanced Energy Materials, 2022, 12, .	19.5	12
17	The polyoctahedral silsesquioxane (POSS) 1,3,5,7,9,11,13,15-octaphenylpentacyclo[9.5.1.1^{3,9}.1^{5,15}.1^{7,13}]octasiloxane (octaphenyl-POSS). Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 971-974.	1.0	8
18	Carbon-Binder Weight Loading Optimization for Improved Lithium-Ion Battery Rate Capability. Journal of the Electrochemical Society, 2022, 169, 070519.	2.9	7

#	Article	IF	Citations
19	A Selfâ€Binding, Meltâ€Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie, 2016, 128, 15480-15483.	2.0	6
20	Unravelling the structural and dynamical complexity of the equilibrium liquid grain-binding layer in highly conductive organic crystalline electrolytes. Journal of Materials Chemistry A, 2018, 6, 4394-4404.	10.3	6
21	Crystal structure and ionic conductivity of the soft solid crystal: isoquinoline3â€¢(LiCl)2. Ionics, 2018, 24, 343-349.	2.4	5
22	Unlocking Failure Mechanisms and Improvement of Practical Liâ€“S Pouch Cells through In Operando Pressure Study (Adv. Energy Mater. 7/2022). Advanced Energy Materials, 2022, 12, .	19.5	2
23	Effect of Artificial SEI Content on Lithium Metal Anode Morphology and Performance. ECS Meeting Abstracts, 2020, MA2020-02, 151-151.	0.0	0