

Parameswara Rao Chinnam

List of Publications by Citations

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21
papers

419
citations

10
h-index

20
g-index

23
ext. papers

554
ext. citations

11.8
avg, IF

3.98
L-index

#	Paper	IF	Citations
21	Polyoctahedral Silsesquioxane-Nanoparticle Electrolytes for Lithium Batteries: POSS-Lithium Salts and POSS-PEGs. <i>Chemistry of Materials</i> , 2011 , 23, 5111-5121	9.6	71
20	Engineered Interfaces in Hybrid Ceramic-Polymer Electrolytes for Use in All-Solid-State Li Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 134-138	20.1	62
19	Self-assembled Janus-like multi-ionic lithium salts form nano-structured solid polymer electrolytes with high ionic conductivity and Li ⁺ ion transference number. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1731-1739	13	46
18	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Li-Ion and Li-Metal Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100372	21.8	41
17	Highly Durable, Self-Standing Solid-State Supercapacitor Based on an Ionic Liquid-Rich Ionogel and Porous Carbon Nanofiber Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33749-33757	9.5	39
16	Systematic Doping of Cobalt into Layered Manganese Oxide Sheets Substantially Enhances Water Oxidation Catalysis. <i>Inorganic Chemistry</i> , 2018 , 57, 557-564	5.1	35
15	An alternative route to single ion conductivity using multi-ionic salts. <i>Materials Horizons</i> , 2018 , 5, 461-473	4.4	19
14	A Self-Binding, Melt-Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15254-15257	16.4	17
13	Bulk-Phase Ion Conduction in Cocrystalline LiCl/N,N-Dimethylformamide: A New Paradigm for Solid Electrolytes Based upon the Pearson Hard-Soft Acid-Base Concept. <i>Chemistry of Materials</i> , 2015 , 27, 5479-5482	9.6	14
12	Extended cycle life implications of fast charging for lithium-ion battery cathode. <i>Energy Storage Materials</i> , 2021 , 41, 656-666	19.4	13
11	Lamellar, micro-phase separated blends of methyl cellulose and dendritic polyethylene glycol, POSS-PEG. <i>Carbohydrate Polymers</i> , 2016 , 136, 19-29	10.3	10
10	Gel Electrolyte Comprising Solvate Ionic Liquid and Methyl Cellulose. <i>ACS Applied Energy Materials</i> , 2020 , 3, 279-289	6.1	8
9	Fast-Charging Aging Considerations: Incorporation and Alignment of Cell Design and Material Degradation Pathways. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9133-9143	6.1	8
8	Multi-ionic lithium salts increase lithium ion transference numbers in ionic liquid gel separators. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14380-14391	13	7
7	Unlocking Failure Mechanisms and Improvement of Practical Li ⁺ Pouch Cells through In Operando Pressure Study. <i>Advanced Energy Materials</i> , 2022 , 12, 2103048	21.8	6
6	A Self-Binding, Melt-Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. <i>Angewandte Chemie</i> , 2016 , 128, 15480-15483	3.6	5
5	A Comprehensive Understanding of the Aging Effects of Extreme Fast Charging on High Ni NMC Cathode. <i>Advanced Energy Materials</i> , 2022 , 12, 2103712	21.8	5

4	Unravelling the structural and dynamical complexity of the equilibrium liquid grain-binding layer in highly conductive organic crystalline electrolytes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4394-4404	13	4
3	Crystal structure and ionic conductivity of the soft solid crystal: isoquinoline ₃ (LiCl) ₂ . <i>Ionics</i> , 2018 , 24, 343-349	2.7	4
2	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). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014 , 70, 971-4	0.8	3
1	Unlocking Failure Mechanisms and Improvement of Practical LiS Pouch Cells through In Operando Pressure Study (Adv. Energy Mater. 7/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270027	21.8	0