

Snehashis Choudhury

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

5,092
citations

31
h-index

49
g-index

49
ext. papers

6,198
ext. citations

16.9
avg, IF

6.3
L-index

#	Paper	IF	Citations
47	Design principles for electrolytes and interfaces for stable lithium-metal batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	990
46	Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. <i>Nature</i> , 2018 , 560, 345-349	50.4	390
45	A stable room-temperature sodium-sulfur battery. <i>Nature Communications</i> , 2016 , 7, 11722	17.4	353
44	A highly reversible room-temperature lithium metal battery based on crosslinked hairy nanoparticles. <i>Nature Communications</i> , 2015 , 6, 10101	17.4	333
43	Fast ion transport at solid-solid interfaces in hybrid battery anodes. <i>Nature Energy</i> , 2018 , 3, 310-316	62.3	313
42	Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries. <i>Nature Energy</i> , 2020 , 5, 526-533	62.3	258
41	Lithium Fluoride Additives for Stable Cycling of Lithium Batteries at High Current Densities. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500246	6.4	241
40	Designing solid-liquid interphases for sodium batteries. <i>Nature Communications</i> , 2017 , 8, 898	17.4	212
39	Regulating electrodeposition morphology of lithium: towards commercially relevant secondary Li metal batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 2701-2750	58.5	160
38	Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. <i>Advanced Materials</i> , 2017 , 29, 1605512	24	151
37	Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. <i>Joule</i> , 2017 , 1, 394-406	27.8	146
36	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 992-996	16.4	139
35	Electrochemical Interphases for High-Energy Storage Using Reactive Metal Anodes. <i>Accounts of Chemical Research</i> , 2018 , 51, 80-88	24.3	114
34	Design Principles of Functional Polymer Separators for High-Energy, Metal-Based Batteries. <i>Small</i> , 2018 , 14, e1703001	11	111
33	Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13070-13077	16.4	107
32	Electronic and Chemical Properties of Germanene: The Crucial Role of Buckling. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3802-3809	3.8	105
31	Nanoporous Hybrid Electrolytes for High-Energy Batteries Based on Reactive Metal Anodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1602367	21.8	95

30	Solid-state polymer electrolytes for high-performance lithium metal batteries. <i>Nature Communications</i> , 2019 , 10, 4398	17.4	90
29	Nucleation and Early Stage Growth of Li Electrodeposits. <i>Nano Letters</i> , 2019 , 19, 8191-8200	11.5	81
28	Designer interphases for the lithium-oxygen electrochemical cell. <i>Science Advances</i> , 2017 , 3, e1602809	14.3	76
27	Electrolytic vascular systems for energy-dense robots. <i>Nature</i> , 2019 , 571, 51-57	50.4	72
26	Stabilizing polymer electrolytes in high-voltage lithium batteries. <i>Nature Communications</i> , 2019 , 10, 3091	17.4	63
25	A highly conductive, non-flammable polymer-nanoparticle hybrid electrolyte. <i>RSC Advances</i> , 2015 , 5, 20800-20809	3.7	56
24	Multifunctional Separator Coatings for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600450	4.6	51
23	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1004-1008	3.6	44
22	Soft Colloidal Glasses as Solid-State Electrolytes. <i>Chemistry of Materials</i> , 2018 , 30, 5996-6004	9.6	43
21	Confining electrodeposition of metals in structured electrolytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6620-6625	11.5	42
20	Multifunctional Cross-Linked Polymeric Membranes for Safe, High-Performance Lithium Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 2058-2066	9.6	39
19	Self-suspended suspensions of covalently grafted hairy nanoparticles. <i>Langmuir</i> , 2015 , 31, 3222-31	4	34
18	On the Reversibility and Fragility of Sodium Metal Electrodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1901651	11.8	31
17	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. <i>Chemistry of Materials</i> , 2018 , 30, 5655-5662	9.6	31
16	Dendrite Suppression by a Polymer Coating: A Coarse-Grained Molecular Study. <i>Advanced Functional Materials</i> , 2020 , 30, 1910138	15.6	29
15	A Cation-Tethered Flowable Polymeric Interface for Enabling Stable Deposition of Metallic Lithium. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21393-21403	16.4	24
14	Interactions, Structure, and Dynamics of Polymer-Tethered Nanoparticle Blends. <i>Langmuir</i> , 2016 , 32, 8698-708	4	21
13	Valence-Dependent Electrical Conductivity in a 3D Tetrahydroxyquinone-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21243-21248	16.4	12

12	Electrokinetics in Viscoelastic Liquid Electrolytes above the Diffusion Limit. <i>Macromolecules</i> , 2019 , 52, 4666-4672	5.5	10
11	Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie</i> , 2017 , 129, 13250-13257	3.6	10
10	Microscopic Origins of Caging and Equilibration of Self-Suspended Hairy Nanoparticles. <i>Macromolecules</i> , 2019 , 52, 8187-8196	5.5	6
9	Structure, Rheology, and Electrokinetics of Soft Colloidal Suspension Electrolytes. <i>Langmuir</i> , 2020 , 36, 9047-9053	4	3
8	Effects of Polymer Coating Mechanics at Solid-Electrolyte Interphase for Stabilizing Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2022 , 12, 2103187	21.8	3
7	Sodium Batteries: Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes (Adv. Mater. 12/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
6	High-resolution Electron Imaging and Spectroscopy of Reactive Materials and Liquid-Solid Interfaces in Energy Storage Devices. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2028-2029	0.5	1
5	Confining Electrodeposition of Metals in Structured Electrolytes. <i>Springer Theses</i> , 2019 , 59-79	0.1	1
4	Titelbild: Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries (Angew. Chem. 4/2018). <i>Angewandte Chemie</i> , 2018 , 130, 863-863	3.6	
3	Designing Solid-Liquid Interphases for Sodium Batteries. <i>Springer Theses</i> , 2019 , 95-116	0.1	
2	Electroless Formation of Hybrid Lithium Anodes for High Interfacial Ion Transport. <i>Springer Theses</i> , 2019 , 117-135	0.1	
1	Soft Colloidal Glasses as Solid-State Electrolytes. <i>Springer Theses</i> , 2019 , 163-182	0.1	