

Dipan Kundu

List of Publications by Year in descending order

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201575

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9298
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and Performance of the Zinc Anode Cycling in Aqueous Zinc-Ion Batteries and a Roadmap for the Future. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	27
2	A highly stable 1.3ÅV organic cathode for aqueous zinc batteries designed in-situ by solid-state electrooxidation. <i>Energy Storage Materials</i> , 2022, 46, 129-137.	9.5	11
3	Aqueous Zn-ion batteries: Cathode materials and analysis. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100954.	2.5	9
4	Long-Life Zn Anode Enabled by Low Volume Concentration of a Benign Electrolyte Additive. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	60
5	Battery anode interphase construction via carbon capture. <i>Joule</i> , 2022, 6, 949-950.	11.7	0
6	Advances in Natural Biopolymer-Based Electrolytes and Separators for Battery Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005646.	7.8	146
7	The Stack Pressure Dilemma in Sulfide Electrolyte Based Li Metal Solid-State Batteries: A Case Study with Li ₆ PS ₅ Cl Solid Electrolyte. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100206.	1.9	42
8	Favorable Interfacial Chemomechanics Enables Stable Cycling of High-Li-Content Li-In/Sn Anodes in Sulfide Electrolyte-Based Solid-State Batteries. <i>Chemistry of Materials</i> , 2021, 33, 6029-6040.	3.2	28
9	Electrochemical Stability of Prospective Current Collectors in the Sulfate Electrolyte for Aqueous Zn-Ion Battery Application. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090560.	1.3	5
10	Unveiling Critical Insight into the Zn Metal Anode Cyclability in Mildly Acidic Aqueous Electrolytes: Implications for Aqueous Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3522-3530.	4.0	123
11	Nature of Alkali Ion Conduction and Reversible Na-Ion Storage in Hybrid Formate Framework Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26714-26721.	1.5	0
12	Stack Pressure Effect in Li ₃ PS ₄ and Na ₃ PS ₄ Based Alkali Metal Solid-State Cells: The Dramatic Implication of Interlayer Growth. <i>Chemistry of Materials</i> , 2020, 32, 10501-10510.	3.2	20
13	Scientific Challenges for the Implementation of Zn-Ion Batteries. <i>Joule</i> , 2020, 4, 771-799.	11.7	1,164
14	A Single Li-Ion Conductor Based on Cellulose. <i>ACS Applied Energy Materials</i> , 2019, 2, 5686-5691.	2.5	45
15	An Organic Cathode Based Dual-Ion Aqueous Zinc Battery Enabled by a Cellulose Membrane. <i>ACS Applied Energy Materials</i> , 2019, 2, 1288-1294.	2.5	118
16	Development of Hierarchically Porous Ionomer Membranes for Versatile and Fast Metal Ion Conduction. <i>ACS Omega</i> , 2019, 4, 2684-2692.	1.6	6
17	Lightweight Metallic MgB ₂ Mediates Polysulfide Redox and Promises High-Energy-Density Lithium-Sulfur Batteries. <i>Joule</i> , 2019, 3, 136-148.	11.7	256
18	Oxide versus Nonoxide Cathode Materials for Aqueous Zn Batteries: An Insight into the Charge Storage Mechanism and Consequences Thereof. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 674-682.	4.0	199

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19	Aqueous vs. nonaqueous Zn-ion batteries: consequences of the desolvation penalty at the interface. <i>Energy and Environmental Science</i> , 2018, 11, 881-892.	15.6	604
20	A 4 V Na ⁺ Intercalation Material in a New Na ⁺ Ion Cathode Family. <i>Advanced Energy Materials</i> , 2018, 8, 1701729.	10.2	18
21	Fast Na ⁺ Intercalation in Zinc Vanadate for High-Performance Na ⁺ Ion Hybrid Capacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1802800.	10.2	72
22	Organic Cathode for Aqueous Zn-Ion Batteries: Taming a Unique Phase Evolution toward Stable Electrochemical Cycling. <i>Chemistry of Materials</i> , 2018, 30, 3874-3881.	3.2	373
23	Towards Better Aqueous Zn Batteries: Through in-Depth Understanding and Cathode Host Development. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	1
24	Development of Novel Ionomer Electrolytes for Alkali Metal Batteries. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
25	The Nature and Impact of Side Reactions in Glyme-based Sodium ⁺ Oxygen Batteries. <i>ChemSusChem</i> , 2016, 9, 1795-1803.	3.6	76
26	A high-capacity and long-life aqueous rechargeable zinc battery using a metal oxide intercalation cathode. <i>Nature Energy</i> , 2016, 1, .	19.8	2,167
27	A graphene-like metallic cathode host for long-life and high-loading lithium ⁺ sulfur batteries. <i>Materials Horizons</i> , 2016, 3, 130-136.	6.4	409
28	A highly active nanostructured metallic oxide cathode for aprotic Li ⁺ O ₂ batteries. <i>Energy and Environmental Science</i> , 2015, 8, 1292-1298.	15.6	213
29	The Emerging Chemistry of Sodium Ion Batteries for Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3431-3448.	7.2	1,772
30	Synthesis, Structure, and Na-ion Migration in Na ₄ NiP ₂ O ₇ F ₂ : A Prospective High Voltage Positive Electrode Material for the Na-ion Battery. <i>Chemistry of Materials</i> , 2015, 27, 885-891.	3.2	39
31	A nanocrystalline nitride as an insertion anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2015, 278, 608-613.	4.0	56
32	Nanostructured Metal Carbides for Aprotic Li ⁺ O ₂ Batteries: New Insights into Interfacial Reactions and Cathode Stability. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2252-2258.	2.1	111
33	A Highly Active Low Voltage Redox Mediator for Enhanced Rechargeability of Lithium ⁺ Oxygen Batteries. <i>ACS Central Science</i> , 2015, 1, 510-515.	5.3	175
34	Rational design of sulphur host materials for Li ⁺ S batteries: correlating lithium polysulphide adsorptivity and self-discharge capacity loss. <i>Chemical Communications</i> , 2015, 51, 2308-2311.	2.2	206
35	Surface-enhanced redox chemistry of polysulphides on a metallic and polar host for lithium-sulphur batteries. <i>Nature Communications</i> , 2014, 5, 4759.	5.8	1,122
36	A low dimensional composite of hexagonal lithium manganese borate (LiMnBO ₃), a cathode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18946-18951.	5.2	22

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37	Nano LiMnBO ₃ , a high-capacity cathode material for Li-ion batteries. Journal of Power Sources, 2013, 224, 145-151.	4.0	51
38	Investigation of nano-fibrous selenium and its polypyrrole and graphene composite as cathode material for rechargeable Li-batteries. Journal of Power Sources, 2013, 236, 112-117.	4.0	91
39	Nanoscale Heterostructures with Molecular-Scale Single-Crystal Metal Wires. Journal of the American Chemical Society, 2010, 132, 20-21.	6.6	34