

Ganguli Babu

List of Publications by Year in descending order

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docs citations

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times ranked

3899
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of intense phase-stable femtosecond hard X-ray pulse pairs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119616119.	7.1	4
2	Photo-Assisted Rechargeable Battery Desalination. ACS Applied Materials & Interfaces, 2022, 14, 30907-30913.	8.0	6
3	Light-Assisted Rechargeable Lithium Batteries: Organic Molecules for Simultaneous Energy Harvesting and Storage. Nano Letters, 2021, 21, 907-913.	9.1	57
4	Manganese buffer induced high-performance disordered MnVO cathodes in zinc batteries. Energy and Environmental Science, 2021, 14, 3954-3964.	30.8	57
5	Achieving High-Quality Freshwater from a Self-Sustainable Integrated Solar Redox-Flow Desalination Device. Small, 2021, 17, e2100490.	10.0	24
6	Structure, Properties and Applications of Two-Dimensional Hexagonal Boron Nitride. Advanced Materials, 2021, 33, e2101589.	21.0	239
7	Atomic-Level Alloying of Sulfur and Selenium for Advanced Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 1005-1013.	8.0	14
8	Nature-Inspired Purpurin Polymer for Li-Ion Batteries: Mechanistic Insights into Energy Storage via Solid-State NMR and Computational Studies. Journal of Physical Chemistry C, 2020, 124, 17939-17948.	3.1	6
9	Lithium, sodium and magnesium ion conduction in solid state mixed polymer electrolytes. Physical Chemistry Chemical Physics, 2020, 22, 19108-19119.	2.8	8
10	Thermal Conductivity Performance of 2D h-BN/MoS ₂ -Hybrid Nanostructures Used on Natural and Synthetic Esters. Nanomaterials, 2020, 10, 1160.	4.1	19
11	Exploring the Possibility of β -Phase Arsenic-Phosphorus Polymorph Monolayer as Anode Materials for Sodium-Ion Batteries. Advanced Theory and Simulations, 2020, 3, 2000023.	2.8	14
12	Made From Henna! A Fast-Charging, High-Capacity, and Recyclable Tetrakislawsonone Cathode Material for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 13836-13844.	6.7	36
13	Good riddance, dendrites. Nature Energy, 2019, 4, 631-632.	39.5	2
14	Nb ₂ O ₅ /reduced Graphene Oxide Nanocomposite Anode for High Power Hybrid Supercapacitor Applications. ChemistrySelect, 2019, 4, 1098-1102.	1.5	23
15	Fiber Reinforced Layered Dielectric Nanocomposite. Advanced Functional Materials, 2019, 29, 1900056.	14.9	64
16	High-K dielectric sulfur-selenium alloys. Science Advances, 2019, 5, eaau9785.	10.3	13
17	Deep eutectic solvents for cathode recycling of Li-ion batteries. Nature Energy, 2019, 4, 339-345.	39.5	422
18	Nature-Derived Sodium-Ion Battery: Mechanistic Insights into Na-Ion Coordination within Sustainable Molecular Cathode Materials. ACS Applied Energy Materials, 2019, 2, 8596-8604.	5.1	14

#	ARTICLE	IF	CITATIONS
19	All 2D materials as electrodes for high power hybrid energy storage applications. <i>2D Materials</i> , 2018, 5, 025016.	4.4	12
20	A common tattoo chemical for energy storage: henna plant-derived naphthoquinone dimer as a green and sustainable cathode material for Li-ion batteries. <i>RSC Advances</i> , 2018, 8, 1576-1582.	3.6	33
21	Two-Dimensional Material-Reinforced Separator for Li-Sulfur Battery. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10765-10772.	3.1	23
22	Atomic Cobalt Covalently Engineered Interlayers for Superior Lithium-Ion Storage. <i>Advanced Materials</i> , 2018, 30, e1802525.	21.0	187
23	Transition Metal Dichalcogenide Atomic Layers for Lithium Polysulfides Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 171-178.	13.7	325
24	Power from nature: designing green battery materials from electroactive quinone derivatives and organic polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12370-12386.	10.3	161
25	Stabilizing polysulfide-shuttle in a Li-S battery using transition metal carbide nanostructures. <i>RSC Advances</i> , 2016, 6, 110301-110306.	3.6	40
26	Hexagonal Boron Nitride-Based Electrolyte Composite for Li-Ion Battery Operation from Room Temperature to 150 °C. <i>Advanced Energy Materials</i> , 2016, 6, 1600218.	19.5	112
27	Ionic Liquid-Organic Carbonate Electrolyte Blends To Stabilize Silicon Electrodes for Extending Lithium Ion Battery Operability to 100 °C. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15242-15249.	8.0	51
28	Electrocatalysis of Lithium Polysulfides: Current Collectors as Electrodes in Li/S Battery Configuration. <i>Scientific Reports</i> , 2015, 5, 8763.	3.3	181
29	Graphene-decorated graphite-sulfur composite as a high-tap-density electrode for Li-S batteries. <i>RSC Advances</i> , 2015, 5, 47621-47627.	3.6	18
30	Electrocatalytic Polysulfide Traps for Controlling Redox Shuttle Process of Li-S Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 11542-11545.	13.7	640
31	Quasi-Solid Electrolytes for High Temperature Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25777-25783.	8.0	54
32	Stacked On-Chip Supercapacitors for Extreme Environments. <i>Journal of Materials Chemistry A</i> , 0, , .	10.3	3