Jagabandhu Patra

List of Publications by Year
in descending order

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40 papers	1,227 citations	361413 20 h-index	377865 34 g-index

41 all docs	41 docs citations	41 times ranked	1403 citing authors

#	Article	IF	Citations
1	Co-free high entropy spinel oxide anode with controlled morphology and crystallinity for outstanding charge/discharge performance in Lithium-ion batteries. Chemical Engineering Journal, 2022, 430, 132658.	12.7	49
2	High-Li+-fraction ether-side-chain pyrrolidiniumâ€“asymmetric imide ionic liquid electrolyte for high-energy-density Si//Ni-rich layered oxide Li-ion batteries. Chemical Engineering Journal, 2022, 430, 132693.	12.7	15
3	Effects of Elemental Modulation on Phase Purity and Electrochemical Properties of Coâ€free Highâ€Entropy Spinel Oxide Anodes for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	48
4	Hierarchical Carbon Composites for Highâ€Energy/Powerâ€Density and Highâ€Reliability Supercapacitors with Low Aging Rate. ChemSusChem, 2022, 15, .	6.8	2
5	Chargeâ€“Discharge Mechanism of Highâ€Entropy Coâ€Free Spinel Oxide Toward Li⁺ Storage Examined Using Operando Quickâ€Scanning Xâ€Ray Absorption Spectroscopy. Advanced Science, 2022, 9, .	11.2	28
6	Nitrogen-doped holey graphene additive for high-performance electric double-layer supercapacitors. Electrochimica Acta, 2022, 425, 140713.	5.2	2
7	Creating electronic and ionic conductivity gradients for improving energy storage performance of ruthenium oxide electrodes. Journal of Alloys and Compounds, 2021, 862, 158013.	5.5	0
8	Optimizing the Mg Doping Concentration of Na₃V_{2â€“x}Mg_x(PO₄)₂F₃/C for Enhanced Sodiation/Desodiation Properties. ACS Sustainable Chemistry and Engineering, 2021, 9, 6962-6971.	6.7	25
9	Hydrogenated Anatase and Rutile TiO₂ for Sodium-Ion Battery Anodes. ACS Applied Energy Materials, 2021, 4, 5738-5746.	5.1	22
10	Composition manipulation of bis(fluorosulfonyl)imide-based ionic liquid electrolyte for high-voltage graphite//LiNi0.5Mn1.5O4 lithium-ion batteries. Chemical Engineering Journal, 2021, 415, 128904.	12.7	21
11	Supercritical CO₂â€Assisted SiO_x/Carbon Multiâ€Layer Coating on Si Anode for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2104135.	14.9	59
12	Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries. Chemical Engineering Journal, 2021, 417, 129131.	12.7	15
13	Atomic-scale investigation of Lithiation/Delithiation mechanism in High-entropy spinel oxide with superior electrochemical performance. Chemical Engineering Journal, 2021, 420, 129838.	12.7	53
14	High-voltage lithium-metal battery with three-dimensional mesoporous carbon anode host and ether/carbonate binary electrolyte. Carbon, 2021, 184, 752-763.	10.3	10
15	Improving high-temperature performance of lithium-rich cathode by roll-to-roll atomic layer deposition of titania nanocoating for lithium-ion batteries. Journal of Energy Storage, 2021, 44, 103348.	8.1	7
16	Highly concentrated carbonate electrolyte for Li-ion batteries with lithium metal and graphite anodes. Journal of Power Sources, 2020, 450, 227657.	7.8	32
17	Graphene induced crystallinity and hydrous state variations of ruthenium oxide electrodes for superior energy storage performance. Electrochimica Acta, 2020, 360, 136995.	5.2	7
18	Hydrous ruthenium oxide-tantalum pentoxide thin film electrodes prepared by thermal decomposition for electrochemical capacitors. Ceramics International, 2020, 46, 16636-16643.	4.8	4

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19	High entropy spinel oxide nanoparticles for superior lithiationâ€“delithiation performance. Journal of Materials Chemistry A, 2020, 8, 18963-18973.	10.3	164
20	Ga-doped lithium lanthanum zirconium oxide electrolyte for solid-state Li batteries. Electrochimica Acta, 2020, 353, 136536.	5.2	18
21	Manipulation of Nitrogen-Heteroatom Configuration for Enhanced Charge-Storage Performance and Reliability of Nanoporous Carbon Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 32797-32805.	8.0	32
22	A Novel Moistureâ€Insensitive and Lowâ€Corrosivity Ionic Liquid Electrolyte for Rechargeable Aluminum Batteries. Advanced Functional Materials, 2020, 30, 1909565.	14.9	38
23	A Holey Graphene Additive for Boosting Performance of Electric Double-Layer Supercapacitors. Polymers, 2020, 12, 765.	4.5	7
24	Supercapacitive Properties of Microporeâ€and Mesoporeâ€Rich Activated Carbon in Ionicâ€Liquid Electrolytes with Various Constituent Ions. ChemSusChem, 2019, 12, 449-456.	6.8	20
25	Electrochemical characteristics of 0.3Li2MnO3â€“0.7LiMn1.5Ni0.5O4 composite cathode in pyrrolidinium-based ionic liquid electrolytes. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 195-201.	5.3	2
26	Superior coulombic efficiency of lithium anodes for rechargeable batteries utilizing high-concentration ether electrolytes. Electrochimica Acta, 2019, 319, 625-633.	5.2	18
27	Composition Modulation of Ionic Liquid Hybrid Electrolyte for 5 V Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 42049-42056.	8.0	18
28	Ionic Liquids with Various Constituent Ions To Optimize Non-Enzymatic Electrochemical Detection Properties of Graphene Electrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 16233-16240.	6.7	6
29	Hybrid electrolyte enables safe and practical 5 V LiNi_{0.5}Mn_{1.5}O₄ batteries. Journal of Materials Chemistry A, 2019, 7, 16516-16525.	10.3	32
30	Carbonaceous Anodes Derived from Sugarcane Bagasse for Sodiumâ€Ion Batteries. ChemSusChem, 2019, 12, 2302-2309.	6.8	48
31	Moderately concentrated electrolyte improves solidâ€“electrolyte interphase and sodium storage performance of hard carbon. Energy Storage Materials, 2019, 16, 146-154.	18.0	73
32	A Waterâ€Soluble NaCMC/NaPAA Binder for Exceptional Improvement of Sodiumâ€Ion Batteries with an SnO₂â€Ordered Mesoporous Carbon Anode. ChemSusChem, 2018, 11, 3923-3931.	6.8	34
33	Comparative Study on the Morphology-Dependent Performance of Various CuO Nanostructures as Anode Materials for Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 10876-10885.	6.7	37
34	Electrochemical Na⁺ storage properties of SnO₂/graphene anodes in carbonate-based and ionic liquid electrolytes. Journal of Materials Chemistry A, 2017, 5, 13776-13784.	10.3	21
35	Three-dimensional interpenetrating mesoporous carbon confining SnO₂particles for superior sodiation/desodiation properties. Nanoscale, 2017, 9, 8674-8683.	5.6	33
36	Electrolyte Optimization for Enhancing Electrochemical Performance of Antimony Sulfide/Graphene Anodes for Sodium-Ion Batteriesâ€“Carbonate-Based and Ionic Liquid Electrolytes. ACS Sustainable Chemistry and Engineering, 2017, 5, 8269-8276.	6.7	43

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37	High dispersion of 1-nm SnO2 particles between graphene nanosheets constructed using supercritical CO2 fluid for sodium-ion battery anodes. Nano Energy, 2016, 28, 124-134.	16.0	101
38	Highly enhanced electrochemical performance of ultrafine CuO nanoparticles confined in ordered mesoporous carbons as anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 14222-14233.	10.3	58
39	Mixed ionic liquid/organic carbonate electrolytes for LiNi0.8Co0.15Al0.05O2 electrodes at various temperatures. RSC Advances, 2015, 5, 106824-106831.	3.6	7
40	Electrochemical performance of 0.5Li2MnO3â€“0.5Li(Mn0.375Ni0.375Co0.25)O2 composite cathode inÂpyrrolidinium-based ionic liquid electrolytes. Journal of Power Sources, 2015, 294, 22-30.	7.8	16