Sandipan Maiti

List of Publications by Year
in descending order

41 papers	2,052 citations	279701 23 h-index	276775 41 g-index
41 all docs	41 docs citations	41 times ranked	2912 citing authors

#	Article	IF	Citations
1	Reversible Lithium Storage in Manganese 1,3,5-Benzenetricarboxylate Metalâ€“Organic Framework with High Capacity and Rate Performance. ACS Applied Materials & Interfaces, 2015, 7, 16357-16363.	4.0	284
2	Extraordinarily high pseudocapacitance of metal organic framework derived nanostructured cerium oxide. Chemical Communications, 2014, 50, 11717-11720.	2.2	218
3	Interconnected Network of MnO₂ Nanowires with a â€œCocoonlikeâ€• Morphology: Redox Couple-Mediated Performance Enhancement in Symmetric Aqueous Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 10754-10762.	4.0	154
4	Cu 3 (1,3,5-benzenetricarboxylate) 2 metal-organic framework: A promising anode material for lithium-ion battery. Microporous and Mesoporous Materials, 2016, 226, 353-359.	2.2	141
5	Horizons for Liâ€Ion Batteries Relevant to Electroâ€Mobility: Highâ€Specificâ€Energy Cathodes and Chemically Active Separators. Advanced Materials, 2018, 30, e1801348.	11.1	105
6	Electrochemical energy storage in Mn₂O₃ porous nanobars derived from morphology-conserved transformation of benzenetricarboxylate-bridged metalâ€“organic framework. CrystEngComm, 2016, 18, 450-461.	1.3	80
7	Large-scale synthesis of porous NiCo₂O₄and rGOâ€“NiCo₂O₄hollow-spheres with superior electrochemical performance as a faradaic electrode. Journal of Materials Chemistry A, 2017, 5, 16854-16864.	5.2	80
8	Reduced graphene oxide anchored Cu(OH)₂as a high performance electrochemical supercapacitor. Dalton Transactions, 2015, 44, 14604-14612.	1.6	76
9	Carbon Doped MnCo 2 S 4 Microcubes Grown on Ni foam as High Energy Density Faradaic Electrode. Electrochimica Acta, 2016, 213, 672-679.	2.6	72
10	High faradaic charge storage in ZnCo2S4 film on Ni-foam with a hetero-dimensional microstructure for hybrid supercapacitor. Materials Today Energy, 2018, 9, 416-427.	2.5	59
11	Influence of imidazolium-based ionic liquid electrolytes on the performance of nano-structured MnO₂ hollow spheres as electrochemical supercapacitor. RSC Advances, 2015, 5, 41617-41626.	1.7	56
12	Electrochemical energy storage in montmorillonite K10 clay based composite as supercapacitor using ionic liquid electrolyte. Journal of Colloid and Interface Science, 2016, 464, 73-82.	5.0	55
13	TiO₂-rGO nanocomposite hollow spheres: large scale synthesis and application as an efficient anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23853-23862.	5.2	54
14	Bi-metal organic framework derived nickel manganese oxide spinel for lithium-ion battery anode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 229, 27-36.	1.7	50
15	Boron doped Ni-rich LiNi0.85Co0.10Mn0.05O2 cathode materials studied by structural analysis, solid state NMR, computational modeling, and electrochemical performance. Energy Storage Materials, 2021, 42, 594-607.	9.5	42
16	Enhancement of Structural, Electrochemical, and Thermal Properties of High-Energy Density Ni-Rich LiNi_{0.85}Co_{0.1}Mn_{0.05}O₂ Cathode Materials for Li-Ion Batteries by Niobium Doping. ACS Applied Materials & Interfaces, 2021, 13, 34145-34156.	4.0	38
17	Electrospun TiO₂â€“rGO Composite Nanofibers with Ordered Mesopores by Molecular Level Assembly: A High Performance Anode Material for Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1600761.	1.9	37
18	Metal hydroxides as a conversion electrode for lithium-ion batteries: a case study with a Cu(OH)₂nanoflower array. Journal of Materials Chemistry A, 2014, 2, 18515-18522.	5.2	36

#	ARTICLE	IF	CITATIONS
19	CeO₂@C derived from benzene carboxylate bridged metalâ€“organic frameworks: ligand induced morphology evolution and influence on the electrochemical properties as a lithium-ion battery anode. Sustainable Energy and Fuels, 2017, 1, 288-298.	2.5	32
20	Mitigating Structural Instability of High-Energy Lithium- and Manganese-Rich LiNi_{<i>x</i>}Mn_{<i>y</i>}Co_{<i>z</i>} Oxide by Interfacial Atomic Surface Reduction. Chemistry of Materials, 2019, 31, 3840-3847.	3.2	30
21	Understanding the Role of Alumina (Al₂O₃), Pentalithium Aluminate (Li₅AlO₄), and Pentasodium Aluminate (Na₅AlO₄) Coatings on the Li and Mnâ€Rich NCM Cathode Material 0.33Li₂MnO₃Â·0.67Li(Ni_{0.4}Co_{0.2}Mn_{0.4})O₂ for Enhanced Electrochemical Performance. Advanced Functional Materials, 2021, 31, 2008083.	7.8	30
22	Superior lithium storage properties of Fe2(MoO4)3/MWCNT composite with a nanoparticle (0D)â€“nanorod (1D) hetero-dimensional morphology. Chemical Engineering Journal, 2017, 307, 239-248.	6.6	27
23	High electrochemical energy storage in self-assembled nest-like CoO nanofibers with long cycle life. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	25
24	Stabilized Behavior of LiNi_{0.85}Co_{0.10}Mn_{0.05}O₂ Cathode Materials Induced by Their Treatment with SO₂. ACS Applied Energy Materials, 2020, 3, 3609-3618.	2.5	25
25	A facile method for the synthesis of a C@MoO₂ hollow yolkâ€“shell structure and its electrochemical properties as a faradaic electrode. Materials Chemistry Frontiers, 2017, 1, 1585-1593.	3.2	24
26	Enhancement of Structural, Electrochemical, and Thermal Properties of Niâ€Rich LiNi_{0.85}Co_{0.1}Mn_{0.05}O₂ Cathode Materials for Liâ€Ion Batteries by Al and Ti Doping. Batteries and Supercaps, 2021, 4, 221-231.	2.4	23
27	Enhancement of Electrochemical Performance of Lithium and Manganese-Rich Cathode Materials via Thermal Treatment with SO₂. Journal of the Electrochemical Society, 2020, 167, 110563.	1.3	21
28	Studies of Nickel-Rich LiNi0.85Co0.10Mn0.05O2 Cathode Materials Doped with Molybdenum Ions for Lithium-Ion Batteries. Materials, 2021, 14, 2070.	1.3	18
29	Hollow-porous nanospheres of ZnMn2O4 spinel: A high energy density cathode for rechargeable aqueous battery. Materials Chemistry and Physics, 2021, 263, 124373.	2.0	18
30	Modification of Li- and Mn-Rich Cathode Materials <i>via</i> Formation of the Rock-Salt and Spinel Surface Layers for Steady and High-Rate Electrochemical Performances. ACS Applied Materials & Interfaces, 2020, 12, 32698-32711.	4.0	17
31	Double gas treatment: A successful approach for stabilizing the Li and Mn-rich NCM cathode materialsâ€™ electrochemical behavior. Energy Storage Materials, 2022, 45, 74-91.	9.5	17
32	Stabilizing High-Voltage Lithium-Ion Battery Cathodes Using Functional Coatings of 2D Tungsten Diselenide. ACS Energy Letters, 2022, 7, 1383-1391.	8.8	17
33	Redox-active organic molecular salt of 1,2,4-benzenetricarboxylic acid as lithium-ion battery anode. Materials Letters, 2017, 209, 613-617.	1.3	14
34	Core-double shell ZnO/ZnS@Co₃O₄ heterostructure as high performance pseudocapacitor. Dalton Transactions, 2016, 45, 9103-9112.	1.6	13
35	Green Synthesis of Electrospun Porous Carbon Nanofibers from Sucrose and Doping of Ag Nanoparticle with Improved Electrical and Electrochemical Properties. ChemistrySelect, 2017, 2, 2265-2276.	0.7	13
36	Rockâ€Saltâ€Templated Mn₃O₄ Nanoparticles Encapsulated in a Mesoporous 2D Carbon Matrix: A High Rate 2 V Anode for Lithiumâ€Ion Batteries with Extraordinary Cycling Stability. ChemistrySelect, 2017, 2, 7854-7864.	0.7	13

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37	Electrochemical and Structural Studies of LiNi_{0.85}Co_{0.1}Mn_{0.05}O₂, a Cathode Material for High Energy Density Li-Ion Batteries, Stabilized by Doping with Small Amounts of Tungsten. Journal of the Electrochemical Society, 2021, 168, 060552.	1.3	13
38	Improved Cycling Stability of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Material via Variable Temperature Atomic Surface Reduction with Diethyl Zinc. Small, 2022, 18, e2104625.	5.2	10
39	Electrochemical and Thermal Behavior of Modified Li and Mnâ€Rich Cathode Materials in Battery Prototypes: Impact of Pentasodium Aluminate Coating and Comprehensive Understanding of Its Evolution upon Cycling through Solidâ€State Nuclear Magnetic Resonance Analysis. Advanced Energy and Sustainability Research, 2021, 2, 2000089.	2.8	8
40	Improved Electrochemical Behavior and Thermal Stability of Li and Mn-Rich Cathode Materials Modified by Lithium Sulfate Surface Treatment. Inorganics, 2022, 10, 39.	1.2	4
41	â€˜Cotton-ballâ€™ shaped porous iron-nickel sulfide: A high-rate cathode for long-life aqueous rechargeable battery. Materials Research Bulletin, 2021, 140, 111307.	2.7	3