

# Sandipan Maiti

## List of Publications by Citations

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41  
papers

1,445  
citations

20  
h-index

38  
g-index

41  
ext. papers

1,732  
ext. citations

7.9  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
41	Reversible Lithium Storage in Manganese 1,3,5-Benzenetricarboxylate Metal-Organic Framework with High Capacity and Rate Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16357-63	9.5	220
40	Extraordinarily high pseudocapacitance of metal organic framework derived nanostructured cerium oxide. <i>Chemical Communications</i> , <b>2014</b> , 50, 11717-20	5.8	160
39	Interconnected network of MnO <sub>2</sub> nanowires with a "cocoonlike" morphology: redox couple-mediated performance enhancement in symmetric aqueous supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10754-62	9.5	128
38	Cu <sub>3</sub> (1,3,5-benzenetricarboxylate) <sub>2</sub> metal-organic framework: A promising anode material for lithium-ion battery. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 226, 353-359	5.3	103
37	Horizons for Li-Ion Batteries Relevant to Electro-Mobility: High-Specific-Energy Cathodes and Chemically Active Separators. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801348	24	71
36	Electrochemical energy storage in Mn <sub>2</sub> O <sub>3</sub> porous nanobars derived from morphology-conserved transformation of benzenetricarboxylate-bridged metal-organic framework. <i>CrystEngComm</i> , <b>2016</b> , 18, 450-461	3.3	66
35	Reduced graphene oxide anchored Cu(OH) <sub>2</sub> as a high performance electrochemical supercapacitor. <i>Dalton Transactions</i> , <b>2015</b> , 44, 14604-12	4.3	64
34	Carbon Doped MnCo <sub>2</sub> S <sub>4</sub> Microcubes Grown on Ni foam as High Energy Density Faradaic Electrode. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 672-679	6.7	62
33	Large-scale synthesis of porous NiCo <sub>2</sub> O <sub>4</sub> and rGO/NiCo <sub>2</sub> O <sub>4</sub> hollow-spheres with superior electrochemical performance as a faradaic electrode. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16854-16864	13	60
32	TiO <sub>2</sub> -rGO nanocomposite hollow spheres: large scale synthesis and application as an efficient anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23853-23862	13	48
31	Influence of imidazolium-based ionic liquid electrolytes on the performance of nano-structured MnO <sub>2</sub> hollow spheres as electrochemical supercapacitor. <i>RSC Advances</i> , <b>2015</b> , 5, 41617-41626	3.7	45
30	Electrochemical energy storage in montmorillonite K10 clay based composite as supercapacitor using ionic liquid electrolyte. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 464, 73-82	9.3	42
29	High faradaic charge storage in ZnCo <sub>2</sub> S <sub>4</sub> film on Ni-foam with a hetero-dimensional microstructure for hybrid supercapacitor. <i>Materials Today Energy</i> , <b>2018</b> , 9, 416-427	7	41
28	Bi-metal organic framework derived nickel manganese oxide spinel for lithium-ion battery anode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2018</b> , 229, 27-36	3.1	37
27	Electrospun TiO <sub>2</sub> /rGO Composite Nanofibers with Ordered Mesopores by Molecular Level Assembly: A High Performance Anode Material for Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600761	4.6	32
26	Metal hydroxides as a conversion electrode for lithium-ion batteries: a case study with a Cu(OH) <sub>2</sub> nanoflower array. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18515-18522	13	31
25	Mitigating Structural Instability of High-Energy Lithium- and Manganese-Rich LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>z</sub> Oxide by Interfacial Atomic Surface Reduction. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3840-3847	9.6	23

24	High electrochemical energy storage in self-assembled nest-like CoO nanofibers with long cycle life. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	22
23	A facile method for the synthesis of a C@MoO <sub>2</sub> hollow yolk-shell structure and its electrochemical properties as a faradaic electrode. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1585-1593	7.8	21
22	Superior lithium storage properties of Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> /MWCNT composite with a nanoparticle (0D)nanorod (1D) hetero-dimensional morphology. <i>Chemical Engineering Journal</i> , <b>2017</b> , 307, 239-248	14.7	21
21	CeO <sub>2</sub> @C derived from benzene carboxylate bridged metal-organic frameworks: ligand induced morphology evolution and influence on the electrochemical properties as a lithium-ion battery anode. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 288-298	5.8	19
20	Stabilized Behavior of LiNi <sub>0.85</sub> Co <sub>0.10</sub> Mn <sub>0.05</sub> O <sub>2</sub> Cathode Materials Induced by Their Treatment with SO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3609-3618	6.1	16
19	Understanding the Role of Alumina (Al <sub>2</sub> O <sub>3</sub> ), Pentalithium Aluminate (Li <sub>5</sub> AlO <sub>4</sub> ), and Pentasodium Aluminate (Na <sub>5</sub> AlO <sub>4</sub> ) Coatings on the Li and Mn-Rich NCM Cathode Material 0.33Li <sub>2</sub> MnO <sub>3</sub> ·0.67Li(Ni <sub>0.4</sub> Co <sub>0.2</sub> Mn <sub>0.4</sub> )O <sub>2</sub> for Enhanced Electrochemical Performance. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008089	15.6	13
18	Green Synthesis of Electrospun Porous Carbon Nanofibers from Sucrose and Doping of Ag Nanoparticle with Improved Electrical and Electrochemical Properties. <i>ChemistrySelect</i> , <b>2017</b> , 2, 2265-2276	1.8	12
17	Core-double shell ZnO/ZnS@Co <sub>3</sub> O <sub>4</sub> heterostructure as high performance pseudocapacitor. <i>Dalton Transactions</i> , <b>2016</b> , 45, 9103-12	4.3	12
16	Enhancement of Structural, Electrochemical, and Thermal Properties of High-Energy Density Ni-Rich LiNiCoMnO Cathode Materials for Li-Ion Batteries by Niobium Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34145-34156	9.5	11
15	Enhancement of Electrochemical Performance of Lithium and Manganese-Rich Cathode Materials via Thermal Treatment with SO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 110563	3.9	9
14	Modification of Li- and Mn-Rich Cathode Materials Formation of the Rock-Salt and Spinel Surface Layers for Steady and High-Rate Electrochemical Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32698-32711	9.5	8
13	Redox-active organic molecular salt of 1,2,4-benzenetricarboxylic acid as lithium-ion battery anode. <i>Materials Letters</i> , <b>2017</b> , 209, 613-617	3.3	8
12	Rock-Salt-Templated Mn <sub>3</sub> O <sub>4</sub> Nanoparticles Encapsulated in a Mesoporous 2D Carbon Matrix: A High Rate 2 V Anode for Lithium-Ion Batteries with Extraordinary Cycling Stability. <i>ChemistrySelect</i> , <b>2017</b> , 2, 7854-7864	1.8	8
11	Enhancement of Structural, Electrochemical, and Thermal Properties of Ni-Rich LiNi <sub>0.85</sub> Co <sub>0.1</sub> Mn <sub>0.05</sub> O <sub>2</sub> Cathode Materials for Li-Ion Batteries by Al and Ti Doping. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 221-231	5.6	7
10	Hollow-porous nanospheres of ZnMn <sub>2</sub> O <sub>4</sub> spinel: A high energy density cathode for rechargeable aqueous battery. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 263, 124373	4.4	6
9	Double gas treatment: A successful approach for stabilizing the Li and Mn-rich NCM cathode materials' electrochemical behavior. <i>Energy Storage Materials</i> , <b>2022</b> , 45, 74-91	19.4	3
8	Electrochemical and Thermal Behavior of Modified Li and Mn-Rich Cathode Materials in Battery Prototypes: Impact of Pentasodium Aluminate Coating and Comprehensive Understanding of Its Evolution upon Cycling through Solid-State Nuclear Magnetic Resonance Analysis. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000089	1.6	3
7	Stabilizing High-Voltage Lithium-Ion Battery Cathodes Using Functional Coatings of 2D Tungsten Diselenide. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1383-1391	20.1	3

6	Improved Cycling Stability of LiNi Co Mn O Cathode Material via Variable Temperature Atomic Surface Reduction with Diethyl Zinc. <i>Small</i> , <b>2021</b> , e2104625	11	3
5	Studies of Nickel-Rich LiNiCoMnO Cathode Materials Doped with Molybdenum Ions for Lithium-Ion Batteries. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
4	Electrochemical and Structural Studies of LiNi <sub>0.85</sub> Co <sub>0.1</sub> Mn <sub>0.05</sub> O <sub>2</sub> , a Cathode Material for High Energy Density Li-Ion Batteries, Stabilized by Doping with Small Amounts of Tungsten. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 060552	3.9	2
3	Boron doped Ni-rich LiNi <sub>0.85</sub> Co <sub>0.10</sub> Mn <sub>0.05</sub> O <sub>2</sub> cathode materials studied by structural analysis, solid state NMR, computational modeling, and electrochemical performance. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 594-607	19.4	2
2	Cotton-ball-shaped porous iron-nickel sulfide: A high-rate cathode for long-life aqueous rechargeable battery. <i>Materials Research Bulletin</i> , <b>2021</b> , 140, 111307	5.1	1
1	Improved Electrochemical Behavior and Thermal Stability of Li and Mn-Rich Cathode Materials Modified by Lithium Sulfate Surface Treatment. <i>Inorganics</i> , <b>2022</b> , 10, 39	2.9	0