

Sourindra Mahanty

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

2,416
citations

29
h-index

48
g-index

65
ext. papers

2,679
ext. citations

4.7
avg, IF

5.4
L-index

#	Paper	IF	Citations
65	Hollow-porous nanospheres of ZnMn ₂ O ₄ spinel: A high energy density cathode for rechargeable aqueous battery. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124373	4.4	6
64	Cotton-ball-shaped porous iron-nickel sulfide: A high-rate cathode for long-life aqueous rechargeable battery. <i>Materials Research Bulletin</i> , 2021 , 140, 111307	5.1	1
63	Carbon@carbon double hollow spheres as efficient cathode host for high rate LiS battery. <i>Materials Chemistry and Physics</i> , 2019 , 225, 309-315	4.4	5
62	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> , 2018 , 229, 27-36	3.1	37
61	High faradaic charge storage in ZnCo ₂ S ₄ film on Ni-foam with a hetero-dimensional microstructure for hybrid supercapacitor. <i>Materials Today Energy</i> , 2018 , 9, 416-427	7	41
60	Influence of CB interactions on the electrochemical performance of COOH functionalized MWCNT/S composites as lithium-sulfur battery cathode. <i>Journal of Chemical Sciences</i> , 2018 , 130, 1	1.8	2
59	CeO ₂ @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> , 2017 , 1, 288-298	5.8	19
58	Green Synthesis of Electrospun Porous Carbon Nanofibers from Sucrose and Doping of Ag Nanoparticle with Improved Electrical and Electrochemical Properties. <i>ChemistrySelect</i> , 2017 , 2, 2265-2276	1.8	12
57	A facile method for the synthesis of a C@MoO ₂ hollow yolk-shell structure and its electrochemical properties as a faradaic electrode. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1585-1593	7.8	21
56	In Situ Mg/MgO-Embedded Mesoporous Carbon Derived from Magnesium 1,4-Benzenedicarboxylate Metal Organic Framework as Sustainable Li-S Battery Cathode Support. <i>ACS Omega</i> , 2017 , 2, 6481-6491	3.9	29
55	TiO ₂ -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> , 2017 , 5, 23853-23862	13	48
54	Redox-active organic molecular salt of 1,2,4-benzenetricarboxylic acid as lithium-ion battery anode. <i>Materials Letters</i> , 2017 , 209, 613-617	3.3	8
53	Rock-Salt-Templated Mn ₃ O ₄ 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> , 2017 , 2, 7854-7864	1.8	8
52	A comparative property investigation of lithium phosphate glass melted in microwave and conventional heating. <i>Bulletin of Materials Science</i> , 2017 , 40, 999-1006	1.7	3
51	Large-scale synthesis of porous NiCo ₂ O ₄ and rGO/NiCo ₂ O ₄ hollow-spheres with superior electrochemical performance as a faradaic electrode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16854-16864	13	60
50	Superior lithium storage properties of Fe ₂ (MoO ₄) ₃ /MWCNT composite with a nanoparticle (0D)-nanorod (1D) hetero-dimensional morphology. <i>Chemical Engineering Journal</i> , 2017 , 307, 239-248	14.7	21
49	Electrospun TiO ₂ /rGO Composite Nanofibers with Ordered Mesopores by Molecular Level Assembly: A High Performance Anode Material for Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600761	4.6	32

48	Core-double shell ZnO/ZnS@Co ₃ O ₄ heterostructure as high performance pseudocapacitor. <i>Dalton Transactions</i> , 2016 , 45, 9103-12	4.3	12
47	Electrochemical energy storage in Mn ₂ O ₃ porous nanobars derived from morphology-conserved transformation of benzenetricarboxylate-bridged metal-organic framework. <i>CrystEngComm</i> , 2016 , 18, 450-461	3.3	66
46	Cu ₃ (1,3,5-benzenetricarboxylate) ₂ metal-organic framework: A promising anode material for lithium-ion battery. <i>Microporous and Mesoporous Materials</i> , 2016 , 226, 353-359	5.3	103
45	Electrochemical energy storage in montmorillonite K10 clay based composite as supercapacitor using ionic liquid electrolyte. <i>Journal of Colloid and Interface Science</i> , 2016 , 464, 73-82	9.3	42
44	High electrochemical energy storage in self-assembled nest-like CoO nanofibers with long cycle life. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	22
43	Carbon Doped MnCo ₂ S ₄ Microcubes Grown on Ni foam as High Energy Density Faradaic Electrode. <i>Electrochimica Acta</i> , 2016 , 213, 672-679	6.7	62
42	Reversible Lithium Storage in Manganese 1,3,5-Benzenetricarboxylate Metal-Organic Framework with High Capacity and Rate Performance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16357-63	9.5	220
41	Reduced graphene oxide anchored Cu(OH) ₂ as a high performance electrochemical supercapacitor. <i>Dalton Transactions</i> , 2015 , 44, 14604-12	4.3	64
40	Influence of imidazolium-based ionic liquid electrolytes on the performance of nano-structured MnO ₂ hollow spheres as electrochemical supercapacitor. <i>RSC Advances</i> , 2015 , 5, 41617-41626	3.7	45
39	Generalized synthesis and evaluation of formation mechanism of metal oxide/sulphide@C hollow spheres. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20297-20304	13	15
38	Low-temperature surfactant-free synthesis of tin oxide-reduced graphene oxide nanocomposites and their textural property-dependent lithium storage characteristics. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 76, 402-413	2.3	8
37	Tungsten disulfide-multiwalled carbon nanotube hybrid anode for lithium-ion battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 3758-64	1.3	13
36	Morphology-mediated tailoring of the performance of porous nanostructured Mn ₂ O ₃ as an anode material. <i>CrystEngComm</i> , 2014 , 16, 10560-10568	3.3	32
35	Metal hydroxides as a conversion electrode for lithium-ion batteries: a case study with a Cu(OH) ₂ nanoflower array. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18515-18522	13	31
34	Interconnected network of MnO ₂ nanowires with a "cocoonlike" morphology: redox couple-mediated performance enhancement in symmetric aqueous supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10754-62	9.5	128
33	Extraordinarily high pseudocapacitance of metal organic framework derived nanostructured cerium oxide. <i>Chemical Communications</i> , 2014 , 50, 11717-20	5.8	160
32	3D Hierarchically Assembled Porous Wrinkled-Paper-like Structure of ZnCo ₂ O ₄ and as Anode Materials for Lithium-Ion Batteries. <i>Crystal Growth and Design</i> , 2014 , 14, 3352-3359	3.5	41
31	An alternative hydrolytic synthesis route for uniform metal selenide nanoparticles. <i>RSC Advances</i> , 2013 , 3, 16322	3.7	

30	TiS ₂ /MWCNT hybrid as high performance anode in lithium-ion battery. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	33
29	MoS ₂ -MWCNT hybrids as a superior anode in lithium-ion batteries. <i>Chemical Communications</i> , 2013 , 49, 1823-5	5.8	216
28	LiSb ₃ O ₈ as a Prospective Anode Material for Lithium-ion Battery. <i>International Journal of Applied Ceramic Technology</i> , 2012 , 9, 876-880	2	7
27	Lithium hexaaxo antimonate as an anode for lithium-ion battery. <i>Nanomaterials and Energy</i> , 2012 , 1, 51-56	1.1	
26	Improved electrochemical performance of natural honeycomb templated LiSbO ₃ as an anode in lithium-ion battery. <i>Materials Chemistry and Physics</i> , 2011 , 130, 20-23	4.4	12
25	Li ₃ SbO ₄ : A new high rate anode material for lithium-ion batteries. <i>Materials Letters</i> , 2011 , 65, 1105-1107	3.3	16
24	Li ₄ Ti ₅ O ₁₂ /Li ₃ SbO ₄ /C composite anode for high rate lithium-ion batteries. <i>Materials Letters</i> , 2011 , 65, 3083-3085	3.3	13
23	Lithium antimonite: A new class of anode material for lithium-ion battery. <i>Electrochemistry Communications</i> , 2009 , 11, 1389-1392	5.1	17
22	Multi-faceted highly crystalline LiMn ₂ O ₄ and LiNi _{0.5} Mn _{1.5} O ₄ cathodes synthesized by a novel carbon exo-templating method. <i>Solid State Ionics</i> , 2009 , 180, 1261-1266	3.3	12
21	Influence of S and Ni co-doping on structure, band gap and electrochemical properties of lithium manganese oxide synthesized by soft chemical method. <i>Journal of Power Sources</i> , 2009 , 192, 618-626	8.9	33
20	Lanthanum-doped LiCoO ₂ cathode with high rate capability. <i>Electrochimica Acta</i> , 2009 , 54, 1654-1661	6.7	47
19	Filter paper templated interconnected nanocrystalline LiMn ₂ O ₄ with high coulombic efficiency and rate capability. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6161		26
18	Improved Electrochemical Performance of Li ₂ MnSiO ₄ /C Composite Synthesized by Combustion Technique. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A677	3.9	45
17	Synthesis of nanocrystalline Li ₄ Ti ₅ O ₁₂ by a novel aqueous combustion technique. <i>Journal of Alloys and Compounds</i> , 2009 , 468, 258-262	5.7	66
16	Effect of silver addition on the properties of combustion synthesized nanocrystalline LiCoO ₂ . <i>Materials Chemistry and Physics</i> , 2008 , 110, 406-410	4.4	29
15	Development and characterizations of BaO/CaO/Al ₂ O ₃ /Bi ₂ O ₃ glass-ceramic sealants for intermediate temperature solid oxide fuel cell application. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4081-4088	3.9	55
14	Alanine Assisted Low-Temperature Synthesis and Characterization of Nanocrystalline SOFC Cathodes. <i>ECS Transactions</i> , 2007 , 7, 1129-1138	1	4
13	Alanine-assisted low-temperature combustion synthesis of nanocrystalline LiMn ₂ O ₄ for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2007 , 42, 1499-1506	5.1	32

12	Structure and optical absorption of combustion-synthesized nanocrystalline LiCoO ₂ . <i>Journal of Materials Research</i> , 2007 , 22, 1162-1167	2.5	28
11	Investigation on sol-gel synthesized Ag-doped TiO ₂ cermet thin films. <i>Thin Solid Films</i> , 2005 , 474, 245-249.	2.2	114
10	Effect of Sn doping on the structural and optical properties of sol-gel TiO ₂ thin films. <i>Journal of Crystal Growth</i> , 2004 , 261, 77-81	1.6	81
9	Ti/Ni/Ti/Au ohmic contact to n-type 6H-SiC. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 98, 177-180	3.1	9
8	Growth of GaN layer by metal-organic chemical vapor deposition system with a novel three-flow reactor. <i>Journal of Crystal Growth</i> , 2000 , 218, 148-154	1.6	3
7	Determination of interference-free optical constants of thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 68, 72-75	3.1	6
6	V-shaped defects in InGaN/GaN multiquantum wells. <i>Materials Letters</i> , 1999 , 41, 67-71	3.3	44
5	Comparison and Investigation of Ohmic Characteristics in the Ni/AuZn and Cr/AuZn Metal Schemes. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 4667-4671	1.4	6
4	A computation program for the calculation of optical constants of solids from reflectance data analysis. <i>Journal of Physics and Chemistry of Solids</i> , 1992 , 53, 1143-1145	3.9	3
3	Preparation and optical studies of polycrystalline Bi ₂ WO ₆ . <i>Materials Letters</i> , 1991 , 11, 254-256	3.3	13
2	Phase-transition studies on copper ferrite. <i>Materials Research Bulletin</i> , 1987 , 22, 1665-1675	5.1	26
1	Efficient energy storage in mustard husk derived porous spherical carbon nanostructures. <i>Materials Advances</i> ,	3.3	3