Sourindra Mahanty

List of Publications by Citations

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	Reversible Lithium Storage in Manganese 1,3,5-Benzenetricarboxylate Metal-Organic Framework with High Capacity and Rate Performance. *ACS Applied Materials & Interfaces*, **2015**, 7, 16357-63	9.5	220
64	MoS2-MWCNT hybrids as a superior anode in lithium-ion batteries. *Chemical Communications*, **2013**, 49, 1823-5	5.8	216
63	Extraordinarily high pseudocapacitance of metal organic framework derived nanostructured cerium oxide. *Chemical Communications*, **2014**, 50, 11717-20	5.8	160
62	Interconnected network of MnO2 nanowires with a "cocoonlike" morphology: redox couple-mediated performance enhancement in symmetric aqueous supercapacitor. *ACS Applied Materials & Interfaces*, **2014**, 6, 10754-62	9.5	128
61	Investigation on sol□gel synthesized Ag-doped TiO2 cermet thin films. *Thin Solid Films*, **2005**, 474, 245-249	2.2	114
60	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	5.3	103
59	Effect of Sn doping on the structural and optical properties of sol□gel TiO2 thin films. *Journal of Crystal Growth*, **2004**, 261, 77-81	1.6	81
58	Electrochemical energy storage in Mn2O3 porous nanobars derived from morphology-conserved transformation of benzenetricarboxylate-bridged metal□rganic framework. *CrystEngComm*, **2016**, 18, 450-461	3.3	66
57	Synthesis of nanocrystalline Li4Ti5O12 by a novel aqueous combustion technique. *Journal of Alloys and Compounds*, **2009**, 468, 258-262	5.7	66
56	Reduced graphene oxide anchored Cu(OH)2 as a high performance electrochemical supercapacitor. *Dalton Transactions*, **2015**, 44, 14604-12	4.3	64
55	Carbon Doped MnCo2S4 Microcubes Grown on Ni foam as High Energy Density Faradaic Electrode. *Electrochimica Acta*, **2016**, 213, 672-679	6.7	62
54	Large-scale synthesis of porous NiCo2O4 and rGO□NiCo2O4 hollow-spheres with superior electrochemical performance as a faradaic electrode. *Journal of Materials Chemistry A*, **2017**, 5, 16854-16864	13	60
53	Development and characterizations of BaO□CaO□Al2O3□SiO2 glass□ceramic sealants for intermediate temperature solid oxide fuel cell application. *Journal of Non-Crystalline Solids*, **2008**, 354, 4081-4088	3.9	55
52	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	13	48
51	Lanthanum-doped LiCoO2 cathode with high rate capability. *Electrochimica Acta*, **2009**, 54, 1654-1661	6.7	47
50	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	3.7	45
49	Improved Electrochemical Performance of Li[sub 2]MnSiO[sub 4]/C Composite Synthesized by Combustion Technique. *Journal of the Electrochemical Society*, **2009**, 156, A677	3.9	45

48	V-shaped defects in InGaN/GaN multiquantum wells. *Materials Letters*, **1999**, 41, 67-71	3.3	44
47	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	9.3	42
46	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	7	41
45	3D Hierarchically Assembled Porous Wrinkled-Paper-like Structure of ZnCo2O4 and as Anode Materials for Lithium-Ion Batteries. *Crystal Growth and Design*, **2014**, 14, 3352-3359	3.5	41
44	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	3.1	37
43	TiS2MWCNT hybrid as high performance anode in lithium-ion battery. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	33
42	Influence of S and Ni co-doping on structure, band gap and electrochemical properties of lithium manganese oxide synthesized by soft chemical method. *Journal of Power Sources*, **2009**, 192, 618-626	8.9	33
41	Electrospun TiO2GO Composite Nanofibers with Ordered Mesopores by Molecular Level Assembly: A High Performance Anode Material for Lithium-Ion Batteries. *Advanced Materials Interfaces*, **2016**, 3, 1600761	4.6	32
40	Morphology-mediated tailoring of the performance of porous nanostructured Mn2O3 as an anode material. *CrystEngComm*, **2014**, 16, 10560-10568	3.3	32
39	Alanine-assisted low-temperature combustion synthesis of nanocrystalline LiMn2O4 for lithium-ion batteries. *Materials Research Bulletin*, **2007**, 42, 1499-1506	5.1	32
38	Metal hydroxides as a conversion electrode for lithium-ion batteries: a case study with a Cu(OH)2 nanoflower array. *Journal of Materials Chemistry A*, **2014**, 2, 18515-18522	13	31
37	In Situ Mg/MgO-Embedded Mesoporous Carbon Derived from Magnesium 1,4-Benzenedicarboxylate Metal Organic Framework as Sustainable Li-S Battery Cathode Support. *ACS Omega*, **2017**, 2, 6481-6491	3.9	29
36	Effect of silver addition on the properties of combustion synthesized nanocrystalline LiCoO2. *Materials Chemistry and Physics*, **2008**, 110, 406-410	4.4	29
35	Structure and optical absorption of combustion-synthesized nanocrystalline LiCoO2. *Journal of Materials Research*, **2007**, 22, 1162-1167	2.5	28
34	Filter paper templated interconnected nanocrystalline LiMn2O4 with high coulombic efficiency and rate capability. *Journal of Materials Chemistry*, **2009**, 19, 6161		26
33	Phase-transition studies on copper ferrite. *Materials Research Bulletin*, **1987**, 22, 1665-1675	5.1	26
32	High electrochemical energy storage in self-assembled nest-like CoO nanofibers with long cycle life. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	22
31	A facile method for the synthesis of a C@MoO2 hollow yolkshell structure and its electrochemical properties as a faradaic electrode. *Materials Chemistry Frontiers*, **2017**, 1, 1585-1593	7.8	21

30	Superior lithium storage properties of Fe2(MoO4)3/MWCNT composite with a nanoparticle (0D)–nanorod (1D) hetero-dimensional morphology. *Chemical Engineering Journal*, **2017**, 307, 239-248	14.7	21
29	CeO2@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. *Sustainable Energy and Fuels*, **2017**, 1, 288-298	5.8	19
28	Lithium antimonite: A new class of anode material for lithium-ion battery. *Electrochemistry Communications*, **2009**, 11, 1389-1392	5.1	17
27	Li3SbO4: A new high rate anode material for lithium-ion batteries. *Materials Letters*, **2011**, 65, 1105-1107	3.3	16
26	Generalized synthesis and evaluation of formation mechanism of metal oxide/sulphide@C hollow spheres. *Journal of Materials Chemistry A*, **2015**, 3, 20297-20304	13	15
25	Tungsten disulfide-multiwalled carbon nanotube hybrid anode for lithium-ion battery. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 3758-64	1.3	13
24	Li4Ti5O12/Li3SbO4/C composite anode for high rate lithium-ion batteries. *Materials Letters*, **2011**, 65, 3083-3085	3.3	13
23	Preparation and optical studies of polycrystalline Bi2WO6. *Materials Letters*, **1991**, 11, 254-256	3.3	13
22	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	1.8	12
21	Core-double shell ZnO/ZnS@Co3O4 heterostructure as high performance pseudocapacitor. *Dalton Transactions*, **2016**, 45, 9103-12	4.3	12
20	Improved electrochemical performance of natural honeycomb templated LiSbO3 as an anode in lithium-ion battery. *Materials Chemistry and Physics*, **2011**, 130, 20-23	4.4	12
19	Multi-faceted highly crystalline LiMn2O4 and LiNi0.5Mn1.5O4 cathodes synthesized by a novel carbon exo-templating method. *Solid State Ionics*, **2009**, 180, 1261-1266	3.3	12
18	Ti/Ni/Ti/Au ohmic contact to n-type 6H-SiC. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 98, 177-180	3.1	9
17	Low-temperature surfactant-free synthesis of tin oxide-reduced graphene oxide nanocomposites and their textural property-dependent lithium storage characteristics. *Journal of Sol-Gel Science and Technology*, **2015**, 76, 402-413	2.3	8
16	Redox-active organic molecular salt of 1,2,4-benzenetricarboxylic acid as lithium-ion battery anode. *Materials Letters*, **2017**, 209, 613-617	3.3	8
15	Rock-Salt-Templated Mn3O4 Nanoparticles Encapsulated in a Mesoporous 2D Carbon Matrix: A High Rate 2 V Anode for Lithium-Ion Batteries with Extraordinary Cycling Stability. *ChemistrySelect*, **2017**, 2, 7854-7864	1.8	8
14	LiSb3O8 as a Prospective Anode Material for Lithium-ion Battery. *International Journal of Applied Ceramic Technology*, **2012**, 9, 876-880	2	7
13	Comparison and Investigation of Ohmic Characteristics in the Ni/AuZn and Cr/AuZn Metal Schemes. *Japanese Journal of Applied Physics*, **1998**, 37, 4667-4671	1.4	6

12	Determination of interference-free optical constants of thin films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1999**, 68, 72-75	3.1	6
11	Hollow-porous nanospheres of ZnMn2O4 spinel: A high energy density cathode for rechargeable aqueous battery. *Materials Chemistry and Physics*, **2021**, 263, 124373	4.4	6
10	Carbon@carbon double hollow spheres as efficient cathode host for high rate LiS battery. *Materials Chemistry and Physics*, **2019**, 225, 309-315	4.4	5
9	Alanine Assisted Low-Temperature Synthesis and Characterization of Nanocrystalline SOFC Cathodes. *ECS Transactions*, **2007**, 7, 1129-1138	1	4
8	A comparative property investigation of lithium phosphate glass melted in microwave and conventional heating. *Bulletin of Materials Science*, **2017**, 40, 999-1006	1.7	3
7	Growth of GaN layer by metal-organic chemical vapor deposition system with a novel three-flow reactor. *Journal of Crystal Growth*, **2000**, 218, 148-154	1.6	3
6	A computation program for the calculation of optical constants of solids from reflectance data analysis. *Journal of Physics and Chemistry of Solids*, **1992**, 53, 1143-1145	3.9	3
5	Efficient energy storage in mustard husk derived porous spherical carbon nanostructures. *Materials Advances*,	3.3	3
4	Influence of CS interactions on the electrochemical performance of COOH functionalized MWCNT/S composites as lithium-sulfur battery cathode. *Journal of Chemical Sciences*, **2018**, 130, 1	1.8	2
3	Cotton-ball-shaped porous iron-nickel sulfide: A high-rate cathode for long-life aqueous rechargeable battery. *Materials Research Bulletin*, **2021**, 140, 111307	5.1	1
2	An alternative hydrolytic synthesis route for uniform metal selenide nanoparticles. *RSC Advances*, **2013**, 3, 16322	3.7	
1	Lithium hexaoxo antimonate as an anode for lithium-ion battery. *Nanomaterials and Energy*, **2012**, 1, 51-56	1.1	