

Sandipan Maiti

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.

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 | Double gas treatment: A successful approach for stabilizing the Li and Mn-rich NCM cathode materials electrochemical behavior. <i>Energy Storage Materials</i> , 2022 , 45, 74-91 | 19.4 | 3 |
| 40 | Improved Electrochemical Behavior and Thermal Stability of Li and Mn-Rich Cathode Materials Modified by Lithium Sulfate Surface Treatment. <i>Inorganics</i> , 2022 , 10, 39 | 2.9 | 0 |
| 39 | Stabilizing High-Voltage Lithium-Ion Battery Cathodes Using Functional Coatings of 2D Tungsten Diselenide. <i>ACS Energy Letters</i> , 2022 , 7, 1383-1391 | 20.1 | 3 |
| 38 | Studies of Nickel-Rich LiNiCoMnO Cathode Materials Doped with Molybdenum Ions for Lithium-Ion Batteries. <i>Materials</i> , 2021 , 14, | 3.5 | 2 |
| 37 | 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 |
| 36 | Electrochemical and Structural Studies of LiNi _{0.85} Co _{0.1} Mn _{0.05} O ₂ , 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> , 2021 , 168, 060552 | 3.9 | 2 |
| 35 | Understanding the Role of Alumina (Al ₂ O ₃), Pentalithium Aluminate (Li ₅ AlO ₄), and Pentasodium Aluminate (Na ₅ AlO ₄) Coatings on the Li and Mn-Rich NCM Cathode Material 0.33Li ₂ MnO ₃ ·0.67Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Enhanced Electrochemical Performance. <i>Advanced Energy Materials</i> , 2021 , 11, 2003008 | 15.6 | 13 |
| 34 | Enhancement of Structural, Electrochemical, and Thermal Properties of Ni-Rich LiNi _{0.85} Co _{0.1} Mn _{0.05} O ₂ Cathode Materials for Li-Ion Batteries by Al and Ti Doping. <i>Batteries and Supercaps</i> , 2021 , 4, 221-231 | 5.6 | 7 |
| 33 | 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 Materials</i> , 2021 , 11, 2003008 | 1.6 | 3 |
| 32 | 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 & Interfaces</i> , 2021 , 13, 34145-34156 | 9.5 | 11 |
| 31 | 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 |
| 30 | Boron doped Ni-rich LiNi _{0.85} Co _{0.1} Mn _{0.05} O ₂ cathode materials studied by structural analysis, solid state NMR, computational modeling, and electrochemical performance. <i>Energy Storage Materials</i> , 2021 , 42, 594-607 | 19.4 | 2 |
| 29 | Improved Cycling Stability of LiNi Co Mn O Cathode Material via Variable Temperature Atomic Surface Reduction with Diethyl Zinc. <i>Small</i> , 2021 , e2104625 | 11 | 3 |
| 28 | Stabilized Behavior of LiNi _{0.85} Co _{0.1} Mn _{0.05} O ₂ Cathode Materials Induced by Their Treatment with SO ₂ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 3609-3618 | 6.1 | 16 |
| 27 | 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 & Interfaces</i> , 2020 , 12, 32698-32711 | 9.5 | 8 |
| 26 | Enhancement of Electrochemical Performance of Lithium and Manganese-Rich Cathode Materials via Thermal Treatment with SO ₂ . <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110563 | 3.9 | 9 |
| 25 | Mitigating Structural Instability of High-Energy Lithium- and Manganese-Rich LiNi _x Mn _y Co _z Oxide by Interfacial Atomic Surface Reduction. <i>Chemistry of Materials</i> , 2019 , 31, 3840-3847 | 9.6 | 23 |

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| 24 | 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 |
| 23 | 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 |
| 22 | Horizons for Li-Ion Batteries Relevant to Electro-Mobility: High-Specific-Energy Cathodes and Chemically Active Separators. <i>Advanced Materials</i> , 2018 , 30, e1801348 | 24 | 71 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | Electrospun TiO ₂ @GO 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |

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|---|---|-----|-----|
| 6 | 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 |
| 5 | Reduced graphene oxide anchored Cu(OH) ₂ as a high performance electrochemical supercapacitor. <i>Dalton Transactions</i> , 2015 , 44, 14604-12 | 4.3 | 64 |
| 4 | 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 |
| 3 | 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 |
| 2 | 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 |
| 1 | Extraordinarily high pseudocapacitance of metal organic framework derived nanostructured cerium oxide. <i>Chemical Communications</i> , 2014 , 50, 11717-20 | 5.8 | 160 |