Chenrayan Senthil

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Biomass-derived biochar materials as sustainable energy sources for electrochemical energy storage devices. Renewable and Sustainable Energy Reviews, 2021, 137, 110464. | 8.2 | 134 |
| 2 | Micelle templated NiO hollow nanospheres as anode materials in lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 7337-7344. | 5.2 | 80 |
| 3 | Biomass seaweed-derived nitrogen self-doped porous carbon anodes for sodium-ion batteries: Insights into the structure and electrochemical activity. Journal of Energy Chemistry, 2022, 64, 286-295. | 7.1 | 65 |
| 4 | Nitrogen-doped carbon-coated Li[Ni0.8Co0.1Mn0.1]O2 cathode material for enhanced lithium-ion storage. Applied Surface Science, 2019, 492, 871-878. | 3.1 | 58 |
| 5 | Nitrogen Rich Carbon Coated TiO2 Nanoparticles as Anode for High Performance Lithium-ion Battery. Electrochimica Acta, 2017, 255, 417-427. | 2.6 | 56 |
| 6 | Understanding Excess Li Storage beyond LiC ₆ in Reduced Dimensional Scale Graphene. ACS Nano, 2021, 15, 797-808. | 7.3 | 50 |
| 7 | Thermochemical conversion of eggshell as biological waste and its application as a functional material for lithium-ion batteries. Chemical Engineering Journal, 2019, 372, 765-773. | 6.6 | 49 |
| 8 | Ultrathin MoS2 sheets supported on N-rich carbon nitride nanospheres with enhanced lithium storage properties. Applied Surface Science, 2017, 410, 215-224. | 3.1 | 45 |
| 9 | Flame retardant high-power Li-S flexible batteries enabled by bio-macromolecular binder integrating conformal fractions. Nature Communications, 2022, 13, 145. | 5.8 | 42 |
| 10 | Electrochemical performance of porous CaFe2O4 as a promising anode material for lithium-ion batteries. Applied Surface Science, 2019, 491, 757-764. | 3.1 | 41 |
| 11 | An efficient mesoporous carbon nitride (g-C ₃ N ₄) functionalized Pd catalyst for carbon–carbon bond formation reactions. RSC Advances, 2016, 6, 49376-49386. | 1.7 | 35 |
| 12 | 3D-printed architecture of Li-ion batteries and its applications to smart wearable electronic devices. Applied Materials Today, 2020, 20, 100688. | 2.3 | 29 |
| 13 | Tin selenide/N-doped carbon composite as a conversion and alloying type anode for sodium-ion batteries. Journal of Alloys and Compounds, 2020, 834, 154304. | 2.8 | 29 |
| 14 | Reactive template synthesis of Li1.2Mn0.54Ni0.13Co0.13O2 nanorod cathode for Li-ion batteries: Influence of temperature over structural and electrochemical properties. Electrochimica Acta, 2019, 317, 398-407. | 2.6 | 27 |
| 15 | An encapsulation of nitrogen and sulphur dual-doped carbon over Li[Ni0.8Co0.1Mn0.1]O2 for lithium-ion battery applications. Applied Surface Science, 2020, 511, 145580. | 3.1 | 26 |
| 16 | Metallic 1T MoS2 overlapped nitrogen-doped carbon superstructures for enhanced sodium-ion storage. Applied Surface Science, 2019, 491, 180-186. | 3.1 | 22 |
| 17 | NASICON type ordered mesoporous lithium-aluminum-titanium-phosphate as electrode materials for lithium-ion batteries. Microporous and Mesoporous Materials, 2017, 240, 57-64. | 2.2 | 20 |
| 18 | Selective ion transport of catalytic hybrid aerofilm interlayer for long-stable Li-S batteries. Energy Storage Materials, 2022, 47, 472-481. | 9.5 | 20 |

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|----|---|-----|-----------|
| 19 | N-rich graphitic carbon nitride functionalized graphene oxide nanosheet hybrid as anode for high performance lithium-ion batteries. Materials Research Express, 2018, 5, 016307. | 0.8 | 18 |
| 20 | The dual role of micelles as templates and reducing agents for the fabrication of catalytically active hollow silver nanospheres. Chemical Communications, 2015, 51, 733-736. | 2.2 | 17 |
| 21 | Robust, Ultrasmooth Fluorinated Lithium Metal Interphase Feasible via Lithiophilic Graphene Quantum Dots for Dendriteâ€Less Batteries. Small, 2022, 18, e2200919. | 5.2 | 16 |
| 22 | Micelle-templated synthesis of Pt hollow nanospheres for catalytic hydrogen evolution. RSC Advances, 2016, 6, 11370-11377. | 1.7 | 14 |
| 23 | Multichannel red phosphorus with a nanoporous architecture: A novel anode material for sodium-ion batteries. Journal of Power Sources, 2020, 470, 228459. | 4.0 | 14 |
| 24 | High energy storage of Li-ions on keggin-type polyoxometalate as electrodes for rechargeable lithium batteries. Journal of Physics and Chemistry of Solids, 2020, 142, 109468. | 1.9 | 14 |
| 25 | Freestanding conversion-type anode via one-pot formation for flexible Li-ion battery. Chemical Engineering Journal, 2022, 427, 130937. | 6.6 | 12 |
| 26 | Alleviating the initial coulombic efficiency loss and enhancing the electrochemical performance of Li1.2Mn0.54Ni0.13Co0.13O2 using β-MnO2. Applied Surface Science, 2019, 489, 336-345. | 3.1 | 10 |
| 27 | Fabrication of Hollow Co ₃ O ₄ Nanospheres and Their Nanocomposites of CNT and rGO as Highâ€Performance Anodes for Lithiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 5502-5511. | 0.7 | 7 |
| 28 | Investigation of various cobalt concentrations on LiV2O5 as cathode materials with tunable high rate capability and operating voltage in Li-ion batteries. Applied Surface Science, 2019, 489, 624-630. | 3.1 | 7 |
| 29 | High energy density of multivalent glassâ€ceramic cathodes for Liâ€ion rechargeable cells and as an efficient photocatalyst for organic degradation. Energy Storage, 2020, 2, e133. | 2.3 | 7 |
| 30 | Nitrogen self-doped carbon sheets anchored hematite nanodots as efficient Li-ion storage anodes through pseudocapacitance mediated redox process. Journal of Industrial and Engineering Chemistry, 2020, 85, 289-296. | 2.9 | 6 |
| 31 | Sustainable-inspired design of efficient organic electrodes for rechargeable sodium-ion batteries: Conversion of P-waste into E-wealth device. Sustainable Materials and Technologies, 2021, 28, e00247. | 1.7 | 5 |
| 32 | Unlocking Rapid Charging and Extended Lifetimes for Li-Ion Batteries Using Freestanding Quantum Conversion-Type Aerofilm Anode. ACS Nano, 2021, 15, 18437-18447. | 7.3 | 5 |
| 33 | Chemically engineered alloy anode enabling fully reversible conversion reaction: design of a C–Sn-bonded aerofilm anode. Journal of Materials Chemistry A, 2022, 10, 3595-3604. | 5.2 | 4 |
| 34 | Nickel/carbon core/shell nanotubes: Lanthanum nickel alloy catalyzed synthesis, characterization and studies on their ferromagnetic and lithium-ion storage properties. Materials Research Bulletin, 2014, 60, 621-627. | 2.7 | 3 |
| 35 | Solvothermally synthesized Ti-rich LiMnTiO4 as cathode material for high Li storage. Journal of Materials Science, 2018, 53, 4406-4416. | 1.7 | 3 |
| 36 | Vanadium silicon-oxyfluoride nanowires for lithium storage systems: A perfect synergy for dynamic simple spot synthesis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 269, 115164. | 1.7 | 3 |

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|----|---|-----|-----------|
| 37 | One dimensional vanadium boron-oxyfluoride nanostructures for lithium storage systems. Materials Letters, 2021, 293, 129706. | 1.3 | 2 |
| 38 | Nanostructured nonoxide nanomaterials an introduction. , 2022, , 1-24. | | 2 |
| 39 | Experimental dataset on tailoring hematite nanodots embedded nitrogen-rich carbon layers for lithium-ion batteries. Data in Brief, 2020, 30, 105472. | 0.5 | 1 |
| 40 | Fabrication of ZnO Hollow Nanospheres and Their Electrochemical Reactivity in Lithium Ion Batteries (LIBs). Journal of Nanoelectronics and Optoelectronics, 2015, 10, 135-139. | 0.1 | 1 |