Bharat Gattu

List of Publications by Year in descending order

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22 papers	769 citations	567281 15 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	1516 citing authors

#	Article	IF	Citations
1	Noble metal-free bifunctional oxygen evolution and oxygen reduction acidic media electro-catalysts. Scientific Reports, 2016, 6, 28367.	3.3	94
2	Guar gum: Structural and electrochemical characterization of natural polymer based binder for siliconâ€“carbon composite rechargeable Li-ion battery anodes. Journal of Power Sources, 2015, 298, 331-340.	7.8	87
3	Novel Composite Polymer Electrolytes of PVdF-HFP Derived by Electrospinning with Enhanced Li-Ion Conductivities for Rechargeable Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2018, 1, 483-494.	5.1	75
4	Nitrogen and cobalt co-doped zinc oxide nanowires â€“ Viable photoanodes for hydrogen generation via photoelectrochemical water splitting. Journal of Power Sources, 2015, 299, 11-24.	7.8	72
5	Sulfonic Acid Based Complex Framework Materials (CFM): Nanostructured Polysulfide Immobilization Systems for Rechargeable Lithiumâ€“Sulfur Battery. Journal of the Electrochemical Society, 2019, 166, A1827-A1835.	2.9	54
6	Understanding the Origin of Irreversible Capacity loss in Non-Carbonized Carbonate â^' based Metal Organic Framework (MOF) Sulfur hosts for Lithium â^' Sulfur battery. Electrochimica Acta, 2017, 229, 208-218.	5.2	49
7	Scribable multi-walled carbon nanotube-silicon nanocomposites: a viable lithium-ion battery system. Nanoscale, 2015, 7, 3504-3510.	5.6	38
8	Triboelectric Nanogenerator Using Microdomeâ€Patterned PDMS as a Wearable Respiratory Energy Harvester. Advanced Materials Technologies, 2017, 2, 1700014.	5.8	38
9	Electrochemically active and robust cobalt doped copper phosphosulfide electro-catalysts for hydrogen evolution reaction in electrolytic and photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2018, 43, 7855-7871.	7.1	37
10	A simple and scalable approach to hollow silicon nanotube (h-SiNT) anode architectures of superior electrochemical stability and reversible capacity. Journal of Materials Chemistry A, 2015, 3, 11117-11129.	10.3	35
11	A rapid solid-state synthesis of electrochemically active Chevrel phases (Mo6T8; T = S, Se) for rechargeable magnesium batteries. Nano Research, 2017, 10, 4415-4435.	10.4	33
12	Siliconâ€“Carbon Coreâ€“Shell Hollow Nanotubular Configuration High-Performance Lithium-Ion Anodes. Journal of Physical Chemistry C, 2017, 121, 9662-9671.	3.1	29
13	Using a synchronous switch to enhance output performance of triboelectric nanogenerators. Nano Energy, 2018, 43, 210-218.	16.0	26
14	Vertically aligned nitrogen doped (Sn,Nb)O2 nanotubes â€“ Robust photoanodes for hydrogen generation by photoelectrochemical water splitting. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 208, 1-14.	3.5	25
15	Active and robust novel bilayer photoanode architectures for hydrogen generation via direct non-electric bias induced photo-electrochemical water splitting. International Journal of Hydrogen Energy, 2018, 43, 13158-13176.	7.1	22
16	Flexible sulfur wires (Flex-SWs)â€”A new versatile platform for lithium-sulfur batteries. Electrochimica Acta, 2016, 212, 286-293.	5.2	12
17	Pulsed Current Electrodeposition of Silicon Thin Films Anodes for Lithium Ion Battery Applications. Inorganics, 2017, 5, 27.	2.7	11
18	Synthesis and electrochemical study of Mg1.5MnO3: A defect spinel cathode for rechargeable magnesium battery. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 202, 8-14.	3.5	9

#	Article	IF	Citations
19	Heterostructures for Improved Stability of Lithium Sulfur Batteries. Journal of the Electrochemical Society, 2014, 161, A1173-A1180.	2.9	8
20	Water-soluble-template-derived nanoscale silicon nanoflake and nano-rod morphologies: Stable architectures for lithium-ion battery anodes. Nano Research, 2017, 10, 4284-4297.	10.4	7
21	Effective Bipyridine and Pyrazineâ€Based Polysulfide Dissolution Resistant Complex Framework Material Systems for High Capacity Rechargeable Lithiumâ€“Sulfur Batteries. Energy Technology, 2019, 7, 1900141.	3.8	5
22	Theoretical and Experimental Strategies for New Heterostructures with Improved Stability for Rechargeable Lithium Sulfur Batteries. Journal of the Electrochemical Society, 2020, 167, 040513.	2.9	3