

# 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	Theoretical and Experimental Strategies for New Heterostructures with Improved Stability for Rechargeable Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 040513.	2.9	3
2	Sulfonic Acid Based Complex Framework Materials (CFM): Nanostructured Polysulfide Immobilization Systems for Rechargeable Lithium Sulfur Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1827-A1835.	2.9	54
3	Effective Bipyridine and Pyrazine Based Polysulfide Dissolution Resistant Complex Framework Material Systems for High Capacity Rechargeable Lithium Sulfur Batteries. <i>Energy Technology</i> , 2019, 7, 1900141.	3.8	5
4	Novel Composite Polymer Electrolytes of PVdF-HFP Derived by Electrospinning with Enhanced Li-Ion Conductivities for Rechargeable Lithium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 483-494.	5.1	75
5	Electrochemically active and robust cobalt doped copper phosphosulfide electro-catalysts for hydrogen evolution reaction in electrolytic and photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7855-7871.	7.1	37
6	Using a synchronous switch to enhance output performance of triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 43, 210-218.	16.0	26
7	Active and robust novel bilayer photoanode architectures for hydrogen generation via direct non-electric bias induced photo-electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13158-13176.	7.1	22
8	Understanding the Origin of Irreversible Capacity loss in Non-Carbonized Carbonate based Metal Organic Framework (MOF) Sulfur hosts for Lithium Sulfur battery. <i>Electrochimica Acta</i> , 2017, 229, 208-218.	5.2	49
9	Triboelectric Nanogenerator Using Microdome Patterned PDMS as a Wearable Respiratory Energy Harvester. <i>Advanced Materials Technologies</i> , 2017, 2, 1700014.	5.8	38
10	Silicon Carbon Core Shell Hollow Nanotubular Configuration High-Performance Lithium-Ion Anodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9662-9671.	3.1	29
11	Water-soluble-template-derived nanoscale silicon nanoflake and nano-rod morphologies: Stable architectures for lithium-ion battery anodes. <i>Nano Research</i> , 2017, 10, 4284-4297.	10.4	7
12	A rapid solid-state synthesis of electrochemically active Chevrel phases (Mo <sub>6</sub> T <sub>8</sub> ; T = S, Se) for rechargeable magnesium batteries. <i>Nano Research</i> , 2017, 10, 4415-4435.	10.4	33
13	Pulsed Current Electrodeposition of Silicon Thin Films Anodes for Lithium Ion Battery Applications. <i>Inorganics</i> , 2017, 5, 27.	2.7	11
14	Noble metal-free bifunctional oxygen evolution and oxygen reduction acidic media electro-catalysts. <i>Scientific Reports</i> , 2016, 6, 28367.	3.3	94
15	Flexible sulfur wires (Flex-SWs) A new versatile platform for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016, 212, 286-293.	5.2	12
16	Vertically aligned nitrogen doped (Sn,Nb)O <sub>2</sub> nanotubes Robust photoanodes for hydrogen generation by photoelectrochemical water splitting. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 208, 1-14.	3.5	25
17	Scribable multi-walled carbon nanotube-silicon nanocomposites: a viable lithium-ion battery system. <i>Nanoscale</i> , 2015, 7, 3504-3510.	5.6	38
18	A simple and scalable approach to hollow silicon nanotube (h-SiNT) anode architectures of superior electrochemical stability and reversible capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11117-11129.	10.3	35

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19	Synthesis and electrochemical study of Mg <sub>1.5</sub> MnO <sub>3</sub> : A defect spinel cathode for rechargeable magnesium battery. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 202, 8-14.	3.5	9
20	Nitrogen and cobalt co-doped zinc oxide nanowires – Viable photoanodes for hydrogen generation via photoelectrochemical water splitting. <i>Journal of Power Sources</i> , 2015, 299, 11-24.	7.8	72
21	Guar gum: Structural and electrochemical characterization of natural polymer based binder for silicon-carbon composite rechargeable Li-ion battery anodes. <i>Journal of Power Sources</i> , 2015, 298, 331-340.	7.8	87
22	Heterostructures for Improved Stability of Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1173-A1180.	2.9	8