

# Samrat Sarkar

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

1,032  
citations

567281

15  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1254  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel Mo <sub>8.7</sub> Nb <sub>6.1</sub> O <sub>x</sub> @NCs egg-nest composite structure as superior anode material for lithium-ion storage. <i>Rare Metals</i> , 2022, 41, 2645-2654.	7.1	9
2	Hierarchical Assembly of MnO <sub>2</sub> Nanosheet on CuCo <sub>2</sub> O <sub>4</sub> Nanoflake over Fabric Scaffold for Symmetric Supercapacitor. <i>ACS Applied Nano Materials</i> , 2021, 4, 1420-1433.	5.0	24
3	Recent advances in semimetallic pnictogen (As, Sb, Bi) based anodes for sodium-ion batteries: Structural design, charge storage mechanisms, key challenges and perspectives. <i>Nano Research</i> , 2021, 14, 3690-3723.	10.4	30
4	Enhanced electron emission from ternary solid solution-MWCNT hybrid with theoretical validation. <i>Materials Science in Semiconductor Processing</i> , 2021, 127, 105674.	4.0	1
5	A review of carbon dots and their composite materials for electrochemical energy technologies. , 2021, 3, 795-826.		77
6	Recent Progress in Amorphous Carbon-Based Materials for Anodes of Sodium-Ion Batteries: Synthesis Strategies, Mechanisms, and Performance. <i>ChemSusChem</i> , 2021, 14, 3693-3723.	6.8	32
7	Photocatalytic and sonocatalytic dye degradation by sulfur vacancy rich ZnS nanopowder. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	8
8	Sodium-Ion Batteries: Recent Progress in Advanced Organic Electrode Materials for Sodium-Ion Batteries: Synthesis, Mechanisms, Challenges and Perspectives (Adv. Funct. Mater. 11/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070071.	14.9	12
9	Recent Progress in Advanced Organic Electrode Materials for Sodium-Ion Batteries: Synthesis, Mechanisms, Challenges and Perspectives. <i>Advanced Functional Materials</i> , 2020, 30, 1908445.	14.9	173
10	Challenges and opportunities for supercapacitors. <i>APL Materials</i> , 2019, 7, .	5.1	257
11	Ultrasound assisted catalytic degradation of textile dye under the presence of reduced Graphene Oxide enveloped Copper Phthalocyanine nanotube. <i>Applied Surface Science</i> , 2018, 449, 113-121.	6.1	32
12	Flower-like Cu <sub>2</sub> NiSn <sub>4</sub> microspheres for application as electrodes of asymmetric supercapacitors endowed with high energy density. <i>CrystEngComm</i> , 2018, 20, 1443-1454.	2.6	20
13	Flexible, transparent resistive switching device based on topological insulator Bi <sub>2</sub> Se <sub>3</sub> -organic composite. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	16
14	Novel Quaternary Chalcogenide/Reduced Graphene Oxide-Based Asymmetric Supercapacitor with High Energy Density. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22652-22664.	8.0	69
15	Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> /Si-Nanowire-Based p-n Junction Diode for High-Performance Near-Infrared Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22788-22798.	8.0	66
16	Band edge tuned Zn <sub>x</sub> Cd <sub>1-x</sub> S solid solution nanopowders for efficient solar photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29998-30009.	2.8	16
17	Co <sub>3</sub> O <sub>4</sub> Nanowires on Flexible Carbon Fabric as a Binder-Free Electrode for All Solid-State Symmetric Supercapacitor. <i>ACS Omega</i> , 2017, 2, 4216-4226.	3.5	76
18	rGO-Wrapped flowerlike Bi <sub>2</sub> Se <sub>3</sub> nanocomposite: synthesis, experimental and simulation-based investigation on cold cathode applications. <i>RSC Advances</i> , 2016, 6, 25900-25912.	3.6	17

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19	Optical and thermoelectric properties of chalcogenide based Cu <sub>2</sub> NiSnS <sub>4</sub> nanoparticles synthesized by a novel hydrothermal route. <i>Materials Letters</i> , 2015, 152, 155-158.	2.6	47
20	Self-sacrificial template directed hydrothermal route to kesterite-Cu <sub>2</sub> ZnSnS <sub>4</sub> microspheres and study of their photo response properties. <i>CrystEngComm</i> , 2014, 16, 2634.	2.6	50