

# Md-Monirul Islam

## List of Publications by Year in descending order

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64  
papers

4,008  
citations

186265

28  
h-index

114465

63  
g-index

66  
all docs

66  
docs citations

66  
times ranked

7076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous carbon architectures with different dimensionalities for lithium metal storage. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 169-188.	6.1	21
2	Research Progress and Future Perspectives on Rechargeable Na <sup>+</sup> and Na <sup>+</sup> Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 158-177.	12.8	25
3	Li <sub>2</sub> S-Based Li-Ion Sulfur Batteries: Progress and Prospects. <i>Small</i> , 2021, 17, e1903934.	10.0	41
4	Theranostic two-dimensional superparamagnetic maghemite quantum structures for ROS-mediated cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5805-5817.	5.8	3
5	Significant Reduction in Thermal Conductivity and Improved Thermopower of Electron-Doped Ba <sup>1-x</sup> La <sup>x</sup> TiO <sub>3</sub> with Nanostructured Rectangular Pores. <i>Advanced Electronic Materials</i> , 2021, 7, 2001044.	5.1	1
6	First extensive study of silver-doped lanthanum manganite nanoparticles for inducing selective chemotherapy and radio-toxicity enhancement. <i>Materials Science and Engineering C</i> , 2021, 123, 111970.	7.3	7
7	Architecting Freestanding Sulfur Cathodes for Superior Room-Temperature Na <sup>+</sup> S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102280.	14.9	46
8	Understanding the Effects of the Low-Concentration Electrolyte on the Performance of High-Energy-Density Li <sup>+</sup> S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28405-28414.	8.0	19
9	Oxi-Redox Selective Breast Cancer Treatment: An In Vitro Study of Theranostic In-Based Oxide Nanoparticles for Controlled Generation or Prevention of Oxidative Stress. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2204-2217.	8.0	6
10	Progress and Challenges for All-Solid-State Sodium Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000057.	5.8	49
11	The Dual Functions of Defect-Rich Carbon Nanotubes as Both Conductive Matrix and Efficient Mediator for Li <sup>+</sup> S Batteries. <i>Small</i> , 2021, 17, e2103535.	10.0	23
12	Na-doped ZnO UV filters with reduced photocatalytic activity for sunscreen applications. <i>Journal of Materials Science</i> , 2020, 55, 2772-2786.	3.7	19
13	Alkali-Metal Sulfide as Cathodes toward Safe and High-Capacity Metal (M = Li, Na, K) Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001764.	19.5	29
14	Nanostructured CoS <sub>2</sub> -Decorated Hollow Carbon Spheres: A Performance Booster for Li-Ion/Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 6447-6459.	5.1	17
15	ZnO/CeO <sub>2</sub> nanocomposite with low photocatalytic activity as efficient UV filters. <i>Journal of Materials Science</i> , 2020, 55, 6834-6847.	3.7	31
16	Development of CeO <sub>2</sub> nanodot encrusted TiO <sub>2</sub> nanoparticles with reduced photocatalytic activity and increased biocompatibility towards a human keratinocyte cell line. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4016-4028.	5.8	17
17	Hydrothermal synthesis of rutile TiO <sub>2</sub> nanorods and their decoration with CeO <sub>2</sub> nanoparticles as low-photocatalytic active ingredients in UV filtering applications. <i>Journal of Materials Science</i> , 2020, 55, 8095-8108.	3.7	9
18	Y <sub>2</sub> O <sub>3</sub> decorated TiO <sub>2</sub> nanoparticles: Enhanced UV attenuation and suppressed photocatalytic activity with promise for cosmetic and sunscreen applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 207, 111883.	3.8	16

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19	Nano-sunscreens â€“ a double-edged sword in protecting consumers from harm: viewing Australian regulatory policies through the lenses of the European Union. <i>Critical Reviews in Toxicology</i> , 2019, 49, 122-139.	3.9	12
20	Synthesis of methotrexate-loaded tantalum pentoxideâ€“poly(acrylic acid) nanoparticles for controlled drug release applications. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 286-296.	9.4	34
21	Tubular TiO <sub>2</sub> Nanostructures: Toward Safer Microsupercapacitors. <i>Advanced Materials Technologies</i> , 2018, 3, 1700194.	5.8	9
22	Boosting potassium-ion batteries by few-layered composite anodes prepared via solution-triggered one-step shear exfoliation. <i>Nature Communications</i> , 2018, 9, 3645.	12.8	204
23	Biocompatible Bi(OH) <sub>3</sub> nanoparticles with reduced photocatalytic activity as possible ultraviolet filter in sunscreens. <i>Materials Research Bulletin</i> , 2018, 108, 130-141.	5.2	19
24	TiO <sub>2</sub> /(BiO) <sub>2</sub> CO <sub>3</sub> nanocomposites for ultraviolet filtration with reduced photocatalytic activity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5639-5650.	5.5	12
25	Three dimensional cellular architecture of sulfur doped graphene: self-standing electrode for flexible supercapacitors, lithium ion and sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5290-5302.	10.3	118
26	Electrochemical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017, 94, 63-73.	10.1	60
27	Liquidâ€“Crystalâ€“Mediated 3D Macrostructured Composite of Co/Co <sub>3</sub> O <sub>4</sub> Embedded in Graphene: Freeâ€“Standing Electrode for Efficient Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600386.	2.3	14
28	An Allâ€“Integrated Anode via Interlinked Chemical Bonding between Doubleâ€“Shelledâ€“Yolkâ€“Structured Silicon and Binder for Lithiumâ€“Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1703028.	21.0	238
29	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with Geant4 simulations. <i>Physica Medica</i> , 2016, 32, 1584-1593.	0.7	28
30	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. <i>Physica Medica</i> , 2016, 32, 1444-1452.	0.7	61
31	A chemically modified graphene oxide wrapped porous hematite nano-architecture as a high rate lithium-ion battery anode material. <i>RSC Advances</i> , 2016, 6, 82698-82706.	3.6	12
32	Study of the effect of ceramic Ta <sub>2</sub> O <sub>5</sub> nanoparticle distribution on cellular dose enhancement in a kilovoltage photon field. <i>Physica Medica</i> , 2016, 32, 1216-1224.	0.7	22
33	Liquidâ€“Crystalâ€“Mediated Selfâ€“Assembly of Porous Fe <sub>2</sub> O <sub>3</sub> Nanorods on PEDOT:PSSâ€“Functionalized Graphene as a Flexible Ternary Architecture for Capacitive Energy Storage. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 27-37.	2.3	22
34	Ternary Porous Sulfur/Dual-Carbon Architectures for Lithium/Sulfur Batteries Obtained Continuously and on a Large Scale via an Industry-Oriented Spray-Pyrolysis/Sublimation Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25251-25260.	8.0	15
35	Multifunctional Fe <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> nanocomposites for free radical scavenging ultraviolet protection. <i>RSC Advances</i> , 2016, 6, 65397-65402.	3.6	24
36	Optimizing dose enhancement with Ta <sub>2</sub> O <sub>5</sub> nanoparticles for synchrotron microbeam activated radiation therapy. <i>Physica Medica</i> , 2016, 32, 1852-1861.	0.7	21

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37	Wearable energy-smart ribbons for synchronous energy harvest and storage. Nature Communications, 2016, 7, 13319.	12.8	147
38	Self-Assembled N/S Codoped Flexible Graphene Paper for High Performance Energy Storage and Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 2078-2087.	8.0	113
39	A Facile Synthesis of High Surface Area Sulfur Carbon Composites for Li/S Batteries. Chemistry - A European Journal, 2015, 21, 10061-10069.	3.3	20
40	Sodium and Lithium Storage Properties of Spray-Dried Molybdenum Disulfide-Graphene Hierarchical Microspheres. Scientific Reports, 2015, 5, 11989.	3.3	58
41	Self-Assembled Multifunctional Hybrids: Toward Developing High-Performance Graphene-Based Architectures for Energy Storage Devices. ACS Central Science, 2015, 1, 206-216.	11.3	60
42	Nitrogen doped graphene via thermal treatment of composite solid precursors as a high performance supercapacitor. RSC Advances, 2015, 5, 30679-30686.	3.6	64
43	Highly Nanostructured Ceramics in Radiotherapy: First Evidence of Ta <sub>2</sub> O <sub>5</sub> -Induced Dose Enhancement on Radioresistant Cancer Cells in an MV Photon Field. Particle and Particle Systems Characterization, 2014, 31, 500-505.	2.3	38
44	Liquid Crystalline Graphene Oxide/PEDOT:PSS Self-Assembled 3D Architecture for Binder-Free Supercapacitor Electrodes. Frontiers in Energy Research, 2014, 2, .	2.3	45
45	Formation and processability of liquid crystalline dispersions of graphene oxide. Materials Horizons, 2014, 1, 87-91.	12.2	113
46	Graphene oxide dispersions: tuning rheology to enable fabrication. Materials Horizons, 2014, 1, 326-331.	12.2	276
47	Liquid Crystalline Dispersions of Graphene Oxide-Based Hybrids: A Practical Approach towards the Next Generation of 3D Isotropic Architectures for Energy Storage Applications. Particle and Particle Systems Characterization, 2014, 31, 465-473.	2.3	20
48	Design of self-assembled TiO <sub>2</sub> architectures: Towards hybrid nanotubular interfaces. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 938-945.	1.8	4
49	Mass production of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> with a conductive network via in situ spray pyrolysis as a long cycle life, high rate anode material for lithium ion batteries. RSC Advances, 2014, 4, 38568-38574.	3.6	8
50	In situ engineering of urchin-like reduced graphene oxide Mn <sub>2</sub> O <sub>3</sub> Mn <sub>3</sub> O <sub>4</sub> nanostructures for supercapacitors. RSC Advances, 2014, 4, 886-892.	3.6	40
51	High performance pure sulfur honeycomb-like architectures synthesized by a cooperative self-assembly strategy for lithium sulfur batteries. RSC Advances, 2014, 4, 36513-36516.	3.6	8
52	Synthesis of potential theranostic system consisting of methotrexate-immobilized (3-aminopropyl)trimethoxysilane coated Î±-Bi <sub>2</sub> O <sub>3</sub> nanoparticles for cancer treatment. RSC Advances, 2014, 4, 24412.	3.6	38
53	Engineering of Bismuth Oxide Nanoparticles to Induce Differential Biochemical Activity in Malignant and Nonmalignant Cells. Particle and Particle Systems Characterization, 2014, 31, 960-964.	2.3	14
54	The effects of cerium doping on the size, morphology, and optical properties of Î±-hematite nanoparticles for ultraviolet filtration. Materials Research Bulletin, 2013, 48, 4521-4525.	5.2	20

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55	Graphene Oxide: Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles (Adv. Funct. Mater. 43/2013). Advanced Functional Materials, 2013, 23, 5344-5344.	14.9	5
56	A Conductive Polypyrrole-Coated, Sulfur-Carbon Nanotube Composite for Use in Lithium-Sulfur Batteries. ChemPlusChem, 2013, 78, 318-324.	2.8	57
57	Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles. Advanced Functional Materials, 2013, 23, 5345-5354.	14.9	354
58	Enhanced Hydrogen Storage in Graphene Oxide-MWCNTs Composite at Room Temperature. Advanced Energy Materials, 2012, 2, 1439-1446.	19.5	97
59	Globular reduced graphene oxide-metal oxide structures for energy storage applications. Energy and Environmental Science, 2012, 5, 5236-5240.	30.8	69
60	Enhancement of the capacitance in TiO <sub>2</sub> nanotubes through controlled introduction of oxygen vacancies. Journal of Materials Chemistry, 2011, 21, 5128.	6.7	288
61	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. Energy and Environmental Science, 2011, 4, 1855.	30.8	414
62	Nanocrystalline NiO hollow spheres in conjunction with CMC for lithium-ion batteries. Journal of Applied Electrochemistry, 2010, 40, 1415-1419.	2.9	29
63	High-surface-area $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /carbon nanocomposite: one-step synthesis and its highly reversible and enhanced high-rate lithium storage properties. Journal of Materials Chemistry, 2010, 20, 2092.	6.7	228
64	Nanostructured Metal Oxides as Electrode Materials for Electrochemical Capacitors. Journal of Nanoscience and Nanotechnology, 2009, 9, 1263-1267.	0.9	7