

# Md-Monirul Islam

## List of Publications by Year in descending order

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64  
papers

4,008  
citations

185998

28  
h-index

114278

63  
g-index

66  
all docs

66  
docs citations

66  
times ranked

7076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. <i>Energy and Environmental Science</i> , 2011, 4, 1855.	15.6	414
2	Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles. <i>Advanced Functional Materials</i> , 2013, 23, 5345-5354.	7.8	354
3	Enhancement of the capacitance in TiO <sub>2</sub> nanotubes through controlled introduction of oxygen vacancies. <i>Journal of Materials Chemistry</i> , 2011, 21, 5128.	6.7	288
4	Graphene oxide dispersions: tuning rheology to enable fabrication. <i>Materials Horizons</i> , 2014, 1, 326-331.	6.4	276
5	An All-Integrated Anode via Interlinked Chemical Bonding between Double-Shelled Yolk-Structured Silicon and Binder for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1703028.	11.1	238
6	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. <i>Journal of Materials Chemistry</i> , 2010, 20, 2092.	6.7	228
7	Boosting potassium-ion batteries by few-layered composite anodes prepared via solution-triggered one-step shear exfoliation. <i>Nature Communications</i> , 2018, 9, 3645.	5.8	204
8	Wearable energy-smart ribbons for synchronous energy harvest and storage. <i>Nature Communications</i> , 2016, 7, 13319.	5.8	147
9	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.	5.2	118
10	Formation and processability of liquid crystalline dispersions of graphene oxide. <i>Materials Horizons</i> , 2014, 1, 87-91.	6.4	113
11	Self-Assembled N/S Codoped Flexible Graphene Paper for High Performance Energy Storage and Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2078-2087.	4.0	113
12	Enhanced Hydrogen Storage in Graphene Oxide-MWCNTs Composite at Room Temperature. <i>Advanced Energy Materials</i> , 2012, 2, 1439-1446.	10.2	97
13	Globular reduced graphene oxide-metal oxide structures for energy storage applications. <i>Energy and Environmental Science</i> , 2012, 5, 5236-5240.	15.6	69
14	Nitrogen doped graphene via thermal treatment of composite solid precursors as a high performance supercapacitor. <i>RSC Advances</i> , 2015, 5, 30679-30686.	1.7	64
15	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. <i>Physica Medica</i> , 2016, 32, 1444-1452.	0.4	61
16	Self-Assembled Multifunctional Hybrids: Toward Developing High-Performance Graphene-Based Architectures for Energy Storage Devices. <i>ACS Central Science</i> , 2015, 1, 206-216.	5.3	60
17	Electrochemical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017, 94, 63-73.	5.3	60
18	Sodium and Lithium Storage Properties of Spray-Dried Molybdenum Disulfide-Graphene Hierarchical Microspheres. <i>Scientific Reports</i> , 2015, 5, 11989.	1.6	58

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19	A Conductive Polypyrrole-Coated, Sulfur-Carbon Nanotube Composite for Use in Lithium-Sulfur Batteries. <i>ChemPlusChem</i> , 2013, 78, 318-324.	1.3	57
20	Progress and Challenges for All-Solid-State Sodium Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000057.	2.8	49
21	Architecting Freestanding Sulfur Cathodes for Superior Room-Temperature Na-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102280.	7.8	46
22	Liquid Crystalline Graphene Oxide/PEDOT:PSS Self-Assembled 3D Architecture for Binder-Free Supercapacitor Electrodes. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	45
23	Li <sub>2</sub> S-Based Li-Ion Sulfur Batteries: Progress and Prospects. <i>Small</i> , 2021, 17, e1903934.	5.2	41
24	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. <i>RSC Advances</i> , 2014, 4, 886-892.	1.7	40
25	High-Z 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. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 500-505.	1.2	38
26	Synthesis of potential theranostic system consisting of methotrexate-immobilized (3-aminopropyl)trimethoxysilane coated $\beta$ -Bi <sub>2</sub> O <sub>3</sub> nanoparticles for cancer treatment. <i>RSC Advances</i> , 2014, 4, 24412.	1.7	38
27	Synthesis of methotrexate-loaded tantalum pentoxide-poly(acrylic acid) nanoparticles for controlled drug release applications. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 286-296.	5.0	34
28	ZnO/CeO <sub>2</sub> nanocomposite with low photocatalytic activity as efficient UV filters. <i>Journal of Materials Science</i> , 2020, 55, 6834-6847.	1.7	31
29	Nanocrystalline NiO hollow spheres in conjunction with CMC for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1415-1419.	1.5	29
30	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.	10.2	29
31	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with Geant4 simulations. <i>Physica Medica</i> , 2016, 32, 1584-1593.	0.4	28
32	Research Progress and Future Perspectives on Rechargeable Na <sub>2</sub> O and Na <sub>2</sub> CO <sub>3</sub> Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 158-177.	7.3	25
33	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.	1.7	24
34	The Dual Functions of Defect-Rich Carbon Nanotubes as Both Conductive Matrix and Efficient Mediator for Li-S Batteries. <i>Small</i> , 2021, 17, e2103535.	5.2	23
35	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.	0.4	22
36	Liquid-Crystal-Mediated Self-Assembly of Porous $\beta$ -Fe <sub>2</sub> O <sub>3</sub> Nanorods on PEDOT:PSS-Functionalized Graphene as a Flexible Ternary Architecture for Capacitive Energy Storage. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 27-37.	1.2	22

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37	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.	0.4	21
38	Porous carbon architectures with different dimensionalities for lithium metal storage. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 169-188.	2.8	21
39	The effects of cerium doping on the size, morphology, and optical properties of $\alpha$ -hematite nanoparticles for ultraviolet filtration. <i>Materials Research Bulletin</i> , 2013, 48, 4521-4525.	2.7	20
40	Liquid Crystalline Dispersions of Graphene-Oxide-Based Hybrids: A Practical Approach towards the Next Generation of 3D Isotropic Architectures for Energy Storage Applications. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 465-473.	1.2	20
41	A Facile Synthesis of High-Surface-Area Sulfur-Carbon Composites for Li/S Batteries. <i>Chemistry - A European Journal</i> , 2015, 21, 10061-10069.	1.7	20
42	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.	2.7	19
43	Na-doped ZnO UV filters with reduced photocatalytic activity for sunscreen applications. <i>Journal of Materials Science</i> , 2020, 55, 2772-2786.	1.7	19
44	Understanding the Effects of the Low-Concentration Electrolyte on the Performance of High-Energy-Density Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28405-28414.	4.0	19
45	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.	2.5	17
46	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.	2.9	17
47	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.	1.7	16
48	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.	4.0	15
49	Engineering of Bismuth Oxide Nanoparticles to Induce Differential Biochemical Activity in Malignant and Nonmalignant Cells. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 960-964.	1.2	14
50	Liquid-Crystal-Mediated 3D Macrostructured Composite of Co/Co <sub>3</sub> O <sub>4</sub> Embedded in Graphene: Free-Standing Electrode for Efficient Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600386.	1.2	14
51	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.	1.7	12
52	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.	2.7	12
53	Nano-sunscreens – 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.	1.9	12
54	Tubular TiO <sub>2</sub> Nanostructures: Toward Safer Microsupercapacitors. <i>Advanced Materials Technologies</i> , 2018, 3, 1700194.	3.0	9

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55	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.	1.7	9
56	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. <i>RSC Advances</i> , 2014, 4, 38568-38574.	1.7	8
57	High performance pure sulfur honeycomb-like architectures synthesized by a cooperative self-assembly strategy for lithium-sulfur batteries. <i>RSC Advances</i> , 2014, 4, 36513-36516.	1.7	8
58	Nanostructured Metal Oxides as Electrode Materials for Electrochemical Capacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1263-1267.	0.9	7
59	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.	3.8	7
60	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.	4.0	6
61	Graphene Oxide: Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles ( <i>Adv. Funct. Mater.</i> 43/2013). <i>Advanced Functional Materials</i> , 2013, 23, 5344-5344.	7.8	5
62	Design of self-assembled TiO <sub>2</sub> architectures: Towards hybrid nanotubular interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 938-945.	0.8	4
63	Theranostic two-dimensional superparamagnetic maghemite quantum structures for ROS-mediated cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5805-5817.	2.9	3
64	Significant Reduction in Thermal Conductivity and Improved Thermopower of Electron-Doped Ba <sub>1-x</sub> La <sub>x</sub> TiO <sub>3</sub> with Nanostructured Rectangular Pores. <i>Advanced Electronic Materials</i> , 2021, 7, 2001044.	2.6	1