

Manikoth M Shaijumon

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	$\hat{3}$ -MnOOH-graphene nanocomposite as promising anode material for Li-ion capacitors. Journal of Energy Storage, 2022, 47, 103636.	3.9	15
2	Nanosheets Derived through Dissolution–Recrystallization of TiB ₂ as Efficient Anode for Sodium–ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	13
3	Electrophoretically-deposited BiSbSe ₃ nanoparticles as highly efficient electrocatalysts for hydrogen evolution reaction. Applied Materials Today, 2022, 27, 101502.	2.3	2
4	Growth of highly crystalline ultrathin two-dimensional selenene. 2D Materials, 2022, 9, 045004.	2.0	8
5	Engineering of Exciton–Plasmon Coupling Using 2D-WS ₂ Nanosheets for 1000-Fold Fluorescence Enhancement in Surface Plasmon-Coupled Emission Platforms. Langmuir, 2021, 37, 1954-1960.	1.6	10
6	Anomalously polarised emission from a MoS ₂ /WS ₂ heterostructure. Nanoscale Advances, 2021, 3, 5676-5682.	2.2	3
7	Engineered Carbon Electrodes for High Performance Capacitive and Hybrid Energy Storage. Journal of Energy Storage, 2021, 35, 102340.	3.9	12
8	Understanding How Degree of Crystallinity Affects Electrochemical Kinetics of Sodium–ion in Brown TiO ₂ Nanotubes. ChemElectroChem, 2021, 8, 2180-2185.	1.7	6
9	Understanding How Degree of Crystallinity Affects Electrochemical Kinetics of Sodium–ion in Brown TiO ₂ Nanotubes. ChemElectroChem, 2021, 8, 2153-2154.	1.7	1
10	Electrostatically Coupled Nanostructured Co(OH) ₂ –MoS ₂ Heterostructures for Enhanced Alkaline Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 7206-7212.	2.4	17
11	Mass Balancing of Hybrid Ion Capacitor Electrodes: A Simple and Generalized Semiempirical Approach. ACS Applied Materials & Interfaces, 2021, 13, 52610-52619.	4.0	11
12	Enhanced Bifunctional Catalytic Activity of Cobalt Phosphide Flowers Anchored N–Doped Reduced Graphene Oxide for Hydrogen and Oxygen Evolution. ChemElectroChem, 2020, 7, 3319-3323.	1.7	13
13	Hierarchically Engineered Nanocarbon Florets as Bifunctional Electrode Materials for Adsorptive and Intercalative Energy Storage. ACS Applied Materials & Interfaces, 2020, 12, 42669-42677.	4.0	29
14	Nanostructured Tungsten Oxysulfide as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. ACS Catalysis, 2020, 10, 6753-6762.	5.5	43
15	Phosphorene-quantum-dot-interspersed few-layered MoS ₂ hybrids as efficient bifunctional electrocatalysts for hydrogen and oxygen evolution. Chemical Communications, 2020, 56, 8623-8626.	2.2	21
16	Electrochemically Exfoliated $\hat{2}$ -Co(OH) ₂ Nanostructures for Enhanced Oxygen Evolution Electrocatalysis. ACS Applied Energy Materials, 2020, 3, 1461-1467.	2.5	46
17	Studies on kinetics and diffusion characteristics of lithium ions in TiNb ₂ O ₇ . Electrochimica Acta, 2020, 345, 136208.	2.6	61
18	Electrocatalysis on Edge-Rich Spiral WS ₂ for Hydrogen Evolution. ACS Nano, 2019, 13, 10448-10455.	7.3	77

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19	Antimony oxychloride embedded graphene nanocomposite as efficient cathode material for chloride ion batteries. <i>Journal of Power Sources</i> , 2019, 433, 126685.	4.0	34
20	High degree of circular polarization in WS ₂ spiral nanostructures induced by broken symmetry. <i>Scientific Reports</i> , 2019, 9, 2784.	1.6	18
21	Enhanced electrochemical properties of Mn ₃ O ₄ /graphene nanocomposite as efficient anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 780, 588-596.	2.8	52
22	Coconut Sprout-Derived Graphitized Carbon Based Sodium Ion Capacitors. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
23	Functionalized Phosphorene Quantum Dots As Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
24	Oxygen incorporated WS ₂ nanoclusters with superior electrocatalytic properties for hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 9516-9524.	2.8	73
25	Ti ³⁺ Induced Brown TiO ₂ Nanotubes for High Performance Sodium-Ion Hybrid Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5401-5412.	3.2	77
26	Antimony oxychloride/graphene aerogel composite as anode material for sodium and lithium ion batteries. <i>Carbon</i> , 2018, 131, 86-93.	5.4	30
27	Nanostructured Na ₂ Ti ₉ O ₁₉ for Hybrid Sodium-Ion Capacitors with Excellent Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 437-447.	4.0	63
28	Functionalized Phosphorene Quantum Dots as Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2018, 12, 11511-11519.	7.3	77
29	Direct deposition of MoSe ₂ nanocrystals onto conducting substrates: towards ultra-efficient electrocatalysts for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13364-13372.	5.2	64
30	A Single-Step Electrochemical Synthesis of Luminescent WS ₂ Quantum Dots. <i>Chemistry - A European Journal</i> , 2017, 23, 9144-9148.	1.7	52
31	High performance sodium-ion hybrid capacitor based on Na ₂ Ti ₂ O ₄ (OH) ₂ nanostructures. <i>Journal of Power Sources</i> , 2017, 353, 85-94.	4.0	95
32	Sodium-Ion Batteries: Twisted Perylene Diimides with Tunable Redox Properties for Organic Sodium-Ion Batteries (<i>Adv. Energy Mater.</i> 20/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	2
33	Twisted Perylene Diimides with Tunable Redox Properties for Organic Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1701316.	10.2	101
34	Exfoliation of Reduced Graphene Oxide with Self-Assembled ĩ-Gelators for Improved Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19417-19426.	4.0	22
35	Layered P2-type Na _{0.5} Ni _{0.25} Mn _{0.75} O ₂ as a high performance cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2016, 206, 199-206.	2.6	73
36	TiO ₂ fibre/particle nanohybrids as efficient anodes for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 45802-45808.	1.7	8

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37	Graphene derived carbon confined sulfur cathodes for lithium-sulfur batteries: Electrochemical impedance studies. <i>Electrochimica Acta</i> , 2016, 214, 129-138.	2.6	43
38	3D Interconnected Networks of Graphene and Flower-Like Cobalt Oxide Microstructures with Improved Lithium Storage. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500419.	1.9	35
39	Li-ion capacitor based on activated rice husk derived porous carbon with improved electrochemical performance. <i>Electrochimica Acta</i> , 2016, 211, 289-296.	2.6	61
40	Controllable growth of few-layer spiral WS ₂ . <i>RSC Advances</i> , 2016, 6, 376-382.	1.7	52
41	CaO nanocrystals grown over SiO ₂ microtubes for efficient CO ₂ capture: organogel sets the platform. <i>Chemical Communications</i> , 2016, 52, 1342-1345.	2.2	24
42	Activated graphene-derived porous carbon with exceptional gas adsorption properties. <i>Microporous and Mesoporous Materials</i> , 2016, 220, 21-27.	2.2	75
43	Highly Ordered Vertical Arrays of TiO ₂ /ZnO Hybrid Nanowires: Synthesis and Electrochemical Characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5833-5839.	0.9	5
44	Electrochemical synthesis of luminescent MoS ₂ quantum dots. <i>Chemical Communications</i> , 2015, 51, 6293-6296.	2.2	204
45	TiNb ₂ O ₇ /Graphene hybrid material as high performance anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 176, 285-292.	2.6	99
46	Nb ₂ O ₅ /graphene nanocomposites for electrochemical energy storage. <i>RSC Advances</i> , 2015, 5, 59997-60004.	1.7	63
47	A polyimide based all-organic sodium ion battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10453-10458.	5.2	151
48	Nanoporous rice husk derived carbon for gas storage and high performance electrochemical energy storage. <i>Journal of Porous Materials</i> , 2014, 21, 839-847.	1.3	76
49	MoS ₂ Quantum Dot-Interspersed Exfoliated MoS ₂ Nanosheets. <i>ACS Nano</i> , 2014, 8, 5297-5303.	7.3	630
50	Covalently Interconnected Three-Dimensional Graphene Oxide Solids. <i>ACS Nano</i> , 2013, 7, 7034-7040.	7.3	233
51	Eco-Efficient Synthesis of Graphene Nanoribbons and Its Application in Electrochemical Supercapacitors. <i>Graphene</i> , 2013, 1, 37-44.	0.2	9
52	Perylene-polyimide-Based Organic Electrode Materials for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3192-3197.	2.1	186
53	Fluorinated graphene based electrodes for high performance primary lithium batteries. <i>RSC Advances</i> , 2013, 3, 25702.	1.7	68
54	Hybrid Nanostructures for Energy Storage Applications. <i>Advanced Materials</i> , 2012, 24, 5045-5064.	11.1	473

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55	Conformal Coating of Thin Polymer Electrolyte Layer on Nanostructured Electrode Materials for Three-Dimensional Battery Applications. <i>Nano Letters</i> , 2011, 11, 101-106.	4.5	98
56	3D lithium ion batteriesâ€”from fundamentals to fabrication. <i>Journal of Materials Chemistry</i> , 2011, 21, 9876.	6.7	231
57	Synthesis of High Coercivity Coreâ€”Shell Nanorods Based on Nickel and Cobalt and Their Magnetic Properties. <i>Nanoscale Research Letters</i> , 2010, 5, 164-8.	3.1	39
58	Nanoarchitected 3D Cathodes for Liâ€”ion Microbatteries. <i>Advanced Materials</i> , 2010, 22, 4978-4981.	11.1	153
59	Performance of Proton Exchange Membrane Fuel Cells Using Pt/MWNTâ€”Pt/C Composites as Electrocatalysts for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	14
60	Multisegmented Au-MnO ₂ /Carbon Nanotube Hybrid Coaxial Arrays for High-Power Supercapacitor Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 658-663.	1.5	314
61	Enhanced Microwave Absorption in Nickel-Filled Multiwall Carbon Nanotubes in the S Band. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, K21.	2.2	57
62	The synthesis of high coercivity cobalt-in-carbon nanotube hybrid structures and their optical limiting properties. <i>Nanotechnology</i> , 2009, 20, 285702.	1.3	33
63	Coaxial MnO ₂ /Carbon Nanotube Array Electrodes for High-Performance Lithium Batteries. <i>Nano Letters</i> , 2009, 9, 1002-1006.	4.5	929
64	On the synthesis and magnetic properties of multiwall carbon nanotubeâ€”superparamagnetic iron oxide nanoparticle nanocomposites. <i>Nanotechnology</i> , 2009, 20, 055607.	1.3	31
65	Electron field emitters based on multiwalled carbon nanotubes decorated with nanoscale metal clusters. <i>Journal of Nanoparticle Research</i> , 2008, 10, 179-189.	0.8	31
66	On the growth mechanism of nickel and cobalt nanowires and comparison of their magnetic properties. <i>Nano Research</i> , 2008, 1, 465-473.	5.8	47
67	Ptâ€”Ru/multi-walled carbon nanotubes as electrocatalysts for direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 427-433.	3.8	135
68	Synthesis of hybrid nanowire arrays and their application as high power supercapacitor electrodes. <i>Chemical Communications</i> , 2008, , 2373.	2.2	180
69	Synthesis of High Coercivity Cobalt Nanotubes with Acetate Precursors and Elucidation of the Mechanism of Growth. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14281-14285.	1.5	51
70	Controlled Manipulation of Giant Hybrid Inorganic Nanowire Assemblies. <i>Nano Letters</i> , 2008, 8, 1853-1857.	4.5	30
71	Flexible energy storage devices based on nanocomposite paper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13574-13577.	3.3	1,032
72	Template assembly of tube-in-tube carbon nanotubes grown using Cu as catalyst. <i>Carbon</i> , 2007, 45, 1713-1716.	5.4	9

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73	Study of optical nonlinearity of functionalized multi-wall carbon nanotubes by using degenerate four wave mixing and Z-scan techniques. <i>Optics Communications</i> , 2007, 273, 153-158.	1.0	21
74	Single step process for the synthesis of carbon nanotubes and metal/alloy-filled multiwalled carbon nanotubes. <i>Nanoscale Research Letters</i> , 2007, 2, 75-80.	3.1	11
75	Alloy hydride catalyst route for the synthesis of single-walled carbon nanotubes, multi-walled carbon nanotubes and magnetic metal-filled multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2006, 17, 5299-5305.	1.3	57
76	Direct growth of aligned carbon nanotubes on bulk metals. <i>Nature Nanotechnology</i> , 2006, 1, 112-116.	15.6	416
77	Multisegmented one-dimensional hybrid structures of carbon nanotubes and metal nanowires. <i>Applied Physics Letters</i> , 2006, 89, 243122.	1.5	39
78	Platinum/multiwalled carbon nanotubes-platinum/carbon composites as electrocatalysts for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Applied Physics Letters</i> , 2006, 88, 253105.	1.5	83
79	Performance of polymer electrolyte membrane fuel cells with carbon nanotubes as oxygen reduction catalyst support material. <i>Journal of Power Sources</i> , 2005, 140, 250-257.	4.0	206
80	Catalytic growth of carbon nanotubes over Ni/Cr hydrotalcite-type anionic clay and their hydrogen storage properties. <i>Applied Surface Science</i> , 2005, 242, 192-198.	3.1	52
81	Studies of yield and nature of carbon nanostructures synthesized by pyrolysis of ferrocene and hydrogen adsorption studies of carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 311-317.	3.8	35
82	Synthesis of multi-walled carbon nanotubes in high yield using Mm based AB ₂ alloy hydride catalysts and the effect of purification on their hydrogen adsorption properties. <i>Nanotechnology</i> , 2005, 16, 518-524.	1.3	32
83	Synthesis of carbon nanotubes by pyrolysis of acetylene using alloy hydride materials as catalysts and their hydrogen adsorption studies. <i>Chemical Physics Letters</i> , 2003, 374, 513-520.	1.2	89
84	Resonant-Raman study of Fröhlich exciton-phonon interaction in WS ₂ nanostructures. <i>European Physical Journal: Special Topics</i> , 0, , 1.	1.2	1