

# Manjusha V Shelke

## List of Publications by Year in descending order

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73  
papers

2,893  
citations

147801  
31  
h-index

168389  
53  
g-index

78  
all docs

78  
docs citations

78  
times ranked

5082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of silver nanoparticles in an aqueous suspension of graphene oxide sheets and its antimicrobial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 16-22.	5.0	402
2	Ammonia-modified graphene sheets decorated with magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles for the photocatalytic and photo-Fenton degradation of phenolic compounds under sunlight irradiation. <i>Journal of Hazardous Materials</i> , 2017, 325, 90-100.	12.4	171
3	Synthesis of N, F and S co-doped graphene quantum dots. <i>Nanoscale</i> , 2015, 7, 11515-11519.	5.6	164
4	The synthesis of citrate-modified silver nanoparticles in an aqueous suspension of graphene oxide nanosheets and their antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 105, 128-136.	5.0	137
5	Facile synthesis and electrochemical evaluation of PANI/CNT/MoS <sub>2</sub> ternary composite as an electrode material for high performance supercapacitor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 223, 24-34.	3.5	119
6	Sunlight assisted degradation of dye molecules and reduction of toxic Cr(VI) in aqueous medium using magnetically recoverable Fe <sub>3</sub> O <sub>4</sub> /reduced graphene oxide nanocomposite. <i>RSC Advances</i> , 2016, 6, 11049-11063.	3.6	106
7	RuO <sub>2</sub> -NH <sub>2</sub> O Nanoparticles Anchored on Carbon Nano-onions: An Efficient Electrode for Solid State Flexible Electrochemical Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2528-2534.	6.7	104
8	Carbon fabric based solar steam generation for waste water treatment. <i>Solar Energy</i> , 2018, 159, 800-810.	6.1	99
9	3D Polyaniline Architecture by Concurrent Inorganic and Organic Acid Doping for Superior and Robust High Rate Supercapacitor Performance. <i>Scientific Reports</i> , 2016, 6, 21002.	3.3	94
10	One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013, 130-131, 270-276.	20.2	78
11	Nanodiamond particles/reduced graphene oxide composites as efficient supercapacitor electrodes. <i>Carbon</i> , 2014, 68, 175-184.	10.3	69
12	Enhanced electrochemical performance of polypyrrole coated MoS <sub>2</sub> nanocomposites as electrode material for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 278-287.	3.8	69
13	Facile Synthesis of 3D Anode Assembly with Si Nanoparticles Sealed in Highly Pure Few Layer Graphene Deposited on Porous Current Collector for Long Life Li-Ion Battery. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601043.	3.7	65
14	Synthesis and electrochemistry of pseudocapacitive multilayer fullerenes and MnO <sub>2</sub> nanocomposites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2152-2159.	10.3	64
15	Facile Synthesis of Unique Cellulose Triacetate Based Flexible and High Performance Gel Polymer Electrolyte for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34773-34782.	8.0	62
16	Facile Green Synthesis of BCN Nanosheets as High-Performance Electrode Material for Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2016, 22, 7134-7140.	3.3	61
17	Nutty Carbon: Morphology Replicating Hard Carbon from Walnut Shell for Na Ion Battery Anode. <i>ACS Omega</i> , 2017, 2, 3601-3609.	3.5	56
18	Glucose-Derived Porous Carbon-Coated Silicon Nanowires as Efficient Electrodes for Aqueous Micro-Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4298-4302.	8.0	51

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19	Rapid determination of sulfonamides in milk using micellar electrokinetic chromatography with fluorescence detection. <i>Analytica Chimica Acta</i> , 2005, 552, 110-115.	5.4	50
20	Synthesis and characterization of CdS/PVA nanocomposite thin films from a complexing agent free system. <i>Materials Chemistry and Physics</i> , 2011, 131, 223-229.	4.0	49
21	High-Energy Flexible Supercapacitor—Synergistic Effects of Polyhydroquinone and RuO <sub>2</sub> ·xH <sub>2</sub> O with Microsized, Few-Layered, Self-Supportive Exfoliated-Graphite Sheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18349-18360.	8.0	49
22	Electrochemical capacitive energy storage in PolyHIPE derived nitrogen enriched hierarchical porous carbon nanosheets. <i>Carbon</i> , 2018, 128, 287-295.	10.3	47
23	Evaluation of n-type ternary metal oxide NiMn <sub>2</sub> O <sub>4</sub> nanomaterial for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 837-843.	7.8	41
24	Laser patterning of boron carbon nitride electrodes for flexible micro-supercapacitor with remarkable electrochemical stability/capacity. <i>Carbon</i> , 2021, 171, 750-757.	10.3	40
25	Green synthesis of stable Cu(0) nanoparticles onto reduced graphene oxide nanosheets: a reusable catalyst for the synthesis of symmetrical biaryls from arylboronic acids under base-free conditions. <i>Catalysis Science and Technology</i> , 2015, 5, 1251-1260.	4.1	39
26	High efficiency electron field emission from protruded graphene oxide nanosheets supported on sharp silicon nanowires. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5040.	5.5	38
27	A green approach for the decoration of Pd nanoparticles on graphene nanosheets: An in situ process for the reduction of C=C double bonds and a reusable catalyst for the Suzuki cross-coupling reaction. <i>New Journal of Chemistry</i> , 2015, 39, 6631-6641.	2.8	37
28	In Situ Synthesis of Nitrogen- and Sulfur-Enriched Hierarchical Porous Carbon for High-Performance Supercapacitor. <i>Energy &amp; Fuels</i> , 2018, 32, 908-915.	5.1	37
29	Synthesis and electrochemical performance of a single walled carbon nanohorn-Fe <sub>3</sub> O <sub>4</sub> nanocomposite supercapacitor electrode. <i>RSC Advances</i> , 2013, 3, 21390-21393.	3.6	35
30	Synthesis of novel Cu <sub>2</sub> S nanohusks as high performance counter electrode for CdS/CdSe sensitized solar cell. <i>Journal of Power Sources</i> , 2016, 315, 277-283.	7.8	33
31	Fast separation and sensitive detection of carcinogenic aromatic amines by reversed-phase 1/4-liquid chromatography coupled with electrochemical detection. <i>Journal of Chromatography A</i> , 2005, 1089, 52-58.	3.7	32
32	Electrospun Nanofibers of Tin Phosphide (SnP <sub>0.94</sub> ) Nanoparticles Encapsulated in a Carbon Matrix: A Tunable Conversion-cum-Alloying Lithium Storage Anode. <i>Energy &amp; Fuels</i> , 2020, 34, 7648-7657.	5.1	27
33	Biomass-Mediated Synthesis of Cu-Doped TiO <sub>2</sub> Nanoparticles for Improved-Performance Lithium-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 13676-13684.	3.5	25
34	Vertical arrays of SiNWs—ZnO nanostructures as high performance electron field emitters. <i>Journal of Materials Chemistry</i> , 2012, 22, 22922.	6.7	23
35	C@SiNW/TiO <sub>2</sub> Core-Shell Nanoarrays with Sandwiched Carbon Passivation Layer as High Efficiency Photoelectrode for Water Splitting. <i>Scientific Reports</i> , 2014, 4, 4897.	3.3	22
36	Research Progress and Perspective on Lithium/Sodium Metal Anodes for Next-Generation Rechargeable Batteries. <i>ChemSusChem</i> , 2022, 15, .	6.8	22

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37	Enhanced photoluminescence and photoactivity of plasmon sensitized nSiNWs/TiO <sub>2</sub> heterostructures. Physical Chemistry Chemical Physics, 2014, 16, 17786-17791.	2.8	21
38	Flexible Energy Storage Device Based on Poly(L-phenylglycine), an Incentive-Energy Pseudocapacitive Conducting Polymer, and Electrochemically Exfoliated Graphite Sheets. ACS Sustainable Chemistry and Engineering, 2020, 8, 6433-6441.	6.7	20
39	A novel catalyst-free synthesis of vertically aligned silicon nanowire-carbon nanotube heterojunction arrays for high performance electron field emitters. Chemical Communications, 2011, 47, 7785.	4.1	18
40	Quantum dot-decorated silicon nanowires as efficient photoelectrodes for photoelectrochemical hydrogen generation. Journal of Materials Chemistry A, 2014, 2, 13352.	10.3	17
41	Direct transfer of micro-molded electrodes for enhanced mass transport and water management in PEMFC. Electrochemistry Communications, 2010, 12, 1638-1641.	4.7	16
42	High aspect ratio nanoscale multifunctional materials derived from hollow carbon nanofiber by polymer insertion and metal decoration. Chemical Communications, 2010, 46, 5590.	4.1	16
43	One-Step Synthesis of a MoS <sub>2</sub> -CuS Composite with High Electrochemical Activity as an Effective Counter Electrode for CdS/CdSe Sensitized Solar Cells. ChemElectroChem, 2017, 4, 1984-1989.	3.4	13
44	Synthesis of high surface area porous carbon from anaerobic digestate and its electrochemical study as an electrode material for ultracapacitors. RSC Advances, 2019, 9, 36343-36350.	3.6	11
45	Microfluidic spatial growth of vertically aligned ZnO nanostructures by soft lithography for antireflective patterning. Microfluidics and Nanofluidics, 2013, 15, 1-9.	2.2	9
46	Plasmon-Enhanced Photocurrent Generation from Click-Chemically Modified Graphene. Chemistry - A European Journal, 2014, 20, 7402-7409.	3.3	9
47	Electrochemical preparation of vertically aligned, hollow CdSe nanotubes and their p-n junction hybrids with electrodeposited Cu <sub>2</sub> O. Nanoscale, 2014, 6, 9148-9156.	5.6	9
48	Uncovering the origin of enhanced field emission properties of rGO-MnO <sub>2</sub> heterostructures: a synergistic experimental and computational investigation. RSC Advances, 2020, 10, 25988-25998.	3.6	9
49	Highly durable Li-ion battery anode from Fe <sub>3</sub> O <sub>4</sub> nanoparticles embedded in nitrogen-doped porous carbon with improved rate capabilities. Journal of Materials Science, 2020, 55, 15667-15680.	3.7	9
50	Electrochemical Evaluation of the Stability and Capacity of rGO-Wrapped Copper Antimony Chalcogenide Anode for Li-ion battery. ChemElectroChem, 2020, 7, 3291-3300.	3.4	9
51	Experimental and theoretical investigations of the effect of heteroatom-doped carbon microsphere supports on the stability and storage capacity of nano-Co <sub>3</sub> O <sub>4</sub> conversion anodes for application in lithium-ion batteries. Nanoscale Advances, 2020, 2, 2914-2924.	4.6	7
52	Ice-colloidal templated carbon host for highly efficient, dendrite free Li metal anode. Carbon, 2021, 179, 256-265.	10.3	7
53	Architecture of NaFe(MoO <sub>4</sub> ) <sub>2</sub> as a novel anode material for rechargeable lithium and sodium ion batteries. Applied Surface Science, 2021, 559, 149903.	6.1	7
54	Engineering microstructure of LiFe(MoO <sub>4</sub> ) <sub>2</sub> as an advanced anode material for rechargeable lithium-ion battery. Journal of Materials Science: Materials in Electronics, 2021, 32, 24273-24284.	2.2	7

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55	A review on recent advancements in solid state lithium–sulfur batteries: fundamentals, challenges, and perspectives. Progress in Energy, 2022, 4, 042001.	10.9	7
56	Synthesis, microstructure, optical and field emission studies of iron vanadium oxide nanosheets. Journal Physics D: Applied Physics, 2016, 49, 145301.	2.8	6
57	High efficiency lithium storage in 3D composite foam of Co <sub>3</sub> O <sub>4</sub> nanoparticles integrated carbon nanohorns. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114839.	3.5	6
58	Resistive Switching in HfO <sub>2</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> Heterostructures: An Intriguing Case of Low H-Field Susceptibility of an E-Field Controlled Active Interface. ACS Applied Materials & Interfaces, 2021, 13, 54133-54142.	8.0	6
59	Honeycomb Boron Carbon Nitride as High-Performance Anode Material for Li-Ion Batteries. ChemNanoMat, 2022, 8, .	2.8	6
60	Co-catalytic Metal Oxide Nanoparticles Decorated Silicon/ Hematite Core Shell Nanowire Arrays as Efficient Photo Electrodes for Water Splitting. ChemistrySelect, 2017, 2, 2544-2551.	1.5	5
61	Eco-Friendly Polymer-Layered Silicate Nanocomposite—Preparation, Chemistry, Properties, and Applications. Advanced Structured Materials, 2015, , 1-42.	0.5	4
62	Hexaphosphate-Derived Phosphorus-Functionalized Carbon for Lithium-Ion Battery Anode. ChemistrySelect, 2017, 2, 5600-5607.	1.5	4
63	Ni(OH) <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> /CNOs Ternary Nanocomposite Designed as an Anode with Complementary Properties for High-Performance Li-Ion Battery. ChemistrySelect, 2018, 3, 2286-2292.	1.5	4
64	Functional silicon nanostructures derived from drying-mediated self-assembly of gold nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	3
65	Optical antenna effect on SiNWs/CuS photodiodes. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600635.	1.8	2
66	Synthesis and structural/electrochemical evaluation of N, S co-doped activated porous carbon spheres as efficient electrode material for supercapacitors. Electrochemical Science Advances, 2021, 1, e2000021.	2.8	2
67	3D x-ray microtomography investigations on the bimodal porosity and high sulfur impregnation in 3D carbon foam for Li-S battery application. JPhys Energy, 2022, 4, 014003.	5.3	2
68	Template assisted highly ordered novel self assembly of micro-reservoirs and its replication. Lab on A Chip, 2010, 10, 1902.	6.0	0
69	Silicon Nanostructures-Graphene Nanocomposites. Advances in Chemical and Materials Engineering Book Series, 2014, , 176-195.	0.3	0
70	Facile Synthesis and Self-Cleaning Application of Bimetallic (CuSn, CuNi) Dendrites. ChemistrySelect, 2017, 2, 5552-5563.	1.5	0
71	Recent Advances in Flexible Supercapacitors. Environmental Chemistry for A Sustainable World, 2019, , 41-72.	0.5	0
72	Electrospun Silicon-Based Nanocomposite Anodes for Lithium-Ion Batteries. Materials Horizons, 2021, , 425-453.	0.6	0

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73	Metal Oxide-Graphene Nanocomposites. Advances in Chemical and Materials Engineering Book Series, 2014, , 196-225.	0.3	0