

M Sathish

List of Publications by Year in descending order

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161
papers

8,395
citations

43973

48
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53109

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all docs

163
docs citations

163
times ranked

9292
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Characterization, Electronic Structure, and Photocatalytic Activity of Nitrogen-Doped TiO ₂ Nanocatalyst. <i>Chemistry of Materials</i> , 2005, 17, 6349-6353.	3.2	866
2	Biomass-Derived Activated Porous Carbon from Rice Straw for a High-Energy Symmetric Supercapacitor in Aqueous and Non-aqueous Electrolytes. <i>Energy & Fuels</i> , 2017, 31, 977-985.	2.5	291
3	Alternate synthetic strategy for the preparation of CdS nanoparticles and its exploitation for water splitting. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 891-898.	3.8	267
4	Superhydrophilic Graphene-Loaded TiO ₂ Thin Film for Self-Cleaning Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 207-212.	4.0	210
5	Photocatalytic recovery of H ₂ from H ₂ S containing wastewater: Surface and interface control of photo-excited in Cu ₂ S@TiO ₂ core-shell nanostructures. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 174-185.	10.8	209
6	<i>Aloe vera</i> Derived Activated High-Surface-Area Carbon for Flexible and High-Energy Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35191-35202.	4.0	198
7	All-solid-state asymmetric supercapacitors based on cobalt hexacyanoferrate-derived CoS and activated carbon. <i>RSC Advances</i> , 2017, 7, 6648-6659.	1.7	184
8	Solvent Engineering for Shape-Shifter <i>Pure</i> Fullerene (C ₆₀). <i>Journal of the American Chemical Society</i> , 2009, 131, 6372-6373.	6.6	183
9	Size-Tunable Hexagonal Fullerene (C ₆₀) Nanosheets at the Liquid~Liquid Interface. <i>Journal of the American Chemical Society</i> , 2007, 129, 13816-13817.	6.6	179
10	Electrochemical Studies on Corncob Derived Activated Porous Carbon for Supercapacitors Application in Aqueous and Non-aqueous Electrolytes. <i>Electrochimica Acta</i> , 2017, 228, 586-596.	2.6	171
11	Insights into 2D/2D MXene Heterostructures for Improved Synergy in Structure toward Next-Generation Supercapacitors: A Review. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	152
12	Ultrathin SnS ₂ Nanoparticles on Graphene Nanosheets: Synthesis, Characterization, and Li-Ion Storage Applications. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12475-12481.	1.5	137
13	Soya derived heteroatom doped carbon as a promising platform for oxygen reduction, supercapacitor and CO ₂ capture. <i>Carbon</i> , 2017, 114, 679-689.	5.4	134
14	Characterization and photocatalytic activity of N-doped TiO ₂ prepared by thermal decomposition of Ti~melamine complex. <i>Applied Catalysis B: Environmental</i> , 2007, 74, 307-312.	10.8	123
15	Sustainable hydrogen production for the greener environment by quantum dots-based efficient photocatalysts: A review. <i>Journal of Environmental Management</i> , 2019, 248, 109246.	3.8	122
16	Manganese hexacyanoferrate derived Mn ₃ O ₄ nanocubes~reduced graphene oxide nanocomposites and their charge storage characteristics in supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4952.	1.3	120
17	Cauliflower-like CuS/ZnS nanocomposites decorated g-C ₃ N ₄ nanosheets as noble metal-free photocatalyst for superior photocatalytic water splitting. <i>Chemical Engineering Journal</i> , 2019, 360, 1277-1286.	6.6	119
18	Vortex-Aligned Fullerene Nanowhiskers as a Scaffold for Orienting Cell Growth. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15667-15673.	4.0	112

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19	Preparation and Optical Properties of Fullerene/Ferrocene Hybrid Hexagonal Nanosheets and Large-Scale Production of Fullerene Hexagonal Nanosheets. <i>Journal of the American Chemical Society</i> , 2009, 131, 9940-9944.	6.6	107
20	Fabrication of 9.6â€%V High-performance Asymmetric Supercapacitors Stack Based on Nickel Hexacyanoferrate-derived Ni(OH) ₂ Nanosheets and Bio-derived Activated Carbon. <i>Scientific Reports</i> , 2019, 9, 1104.	1.6	105
21	Graphene anchored with Fe ₃ O ₄ nanoparticles as anode for enhanced Li-ion storage. <i>Journal of Power Sources</i> , 2012, 217, 85-91.	4.0	104
22	Multifunctional Cu/Ag quantum dots on TiO ₂ nanotubes as highly efficient photocatalysts for enhanced solar hydrogen evolution. <i>Journal of Catalysis</i> , 2017, 350, 226-239.	3.1	103
23	Orange Peel Derived Activated Carbon for Fabrication of Highâ€Energy and Highâ€Rate Supercapacitors. <i>ChemistrySelect</i> , 2017, 2, 11384-11392.	0.7	103
24	Nanoporous Fullerene Nanowhiskers. <i>Chemistry of Materials</i> , 2007, 19, 2398-2400.	3.2	100
25	Photocatalytic generation of hydrogen over mesoporous CdS nanoparticle: Effect of particle size, noble metal and support. <i>Catalysis Today</i> , 2007, 129, 421-427.	2.2	98
26	Nanostructured semiconducting materials for efficient hydrogen generation. <i>Environmental Chemistry Letters</i> , 2018, 16, 765-796.	8.3	97
27	Open-Mouthed Metallic Microcapsules: Exploring Performance Improvements at Agglomeration-Free Interiors. <i>Journal of the American Chemical Society</i> , 2010, 132, 14415-14417.	6.6	89
28	New Method for the Synthesis of 2D Vanadium Nitride (MXene) and Its Application as a Supercapacitor Electrode. <i>ACS Omega</i> , 2020, 5, 17983-17992.	1.6	84
29	CoS ₂ engulfed ultra-thin S-doped g-C ₃ N ₄ and its enhanced electrochemical performance in hybrid asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 204-215.	5.0	84
30	Electrochemical investigation of manganese ferrites prepared via a facile synthesis route for supercapacitor applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 668-677.	2.3	76
31	Supercritical fluid processing: a rapid, one-pot exfoliation process for the production of surfactant-free hexagonal boron nitride nanosheets. <i>CrystEngComm</i> , 2015, 17, 5895-5899.	1.3	75
32	Supercritical fluid assisted synthesis of N-doped graphene nanosheets and their capacitance behavior in ionic liquid and aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4731-4738.	5.2	72
33	High performance supercapacitor using N-doped graphene prepared via supercritical fluid processing with an oxime nitrogen source. <i>Electrochimica Acta</i> , 2016, 200, 37-45.	2.6	71
34	N,S-Co-doped TiO ₂ Nanophotocatalyst: Synthesis, Electronic Structure and Photocatalysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 423-432.	0.9	65
35	Redox-Additives in Aqueous, Non-Aqueous, and All-Solid-State Electrolytes for Carbon-Based Supercapacitor: A Mini-Review. <i>Energy & Fuels</i> , 2021, 35, 6465-6482.	2.5	64
36	MnO ₂ assisted oxidative polymerization of aniline on graphene sheets: Superior nanocomposite electrodes for electrochemical supercapacitors. <i>Journal of Materials Chemistry</i> , 2011, 21, 16216.	6.7	63

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37	Alcohol-induced decomposition of Olmstead's crystalline Ag(C_{60}) fullerene heteronanostructure yields C_{60} -bucky cubes TM . <i>Journal of Materials Chemistry C</i> , 2013, 1, 1174-1181.	2.7	61
38	Shape dependence structural, optical and photocatalytic properties of TiO ₂ nanocrystals for enhanced hydrogen production via glycerol reforming. <i>Solar Energy Materials and Solar Cells</i> , 2017, 163, 113-119.	3.0	60
39	The fascinating supercapacitive performance of activated carbon electrodes with enhanced energy density in multifarious electrolytes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3029-3041.	2.5	60
40	CuO@NiO core-shell nanoparticles decorated anatase TiO ₂ nanospheres for enhanced photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7517-7529.	3.8	59
41	Enhancement of photocatalytic H ₂ evolution from water splitting by construction of two dimensional gC ₃ N ₄ /NiAl layered double hydroxides. <i>Applied Surface Science</i> , 2020, 509, 144656.	3.1	59
42	Facile and Scalable Ultra-fine Cobalt Oxide/Reduced Graphene Oxide Nanocomposites for High Energy Asymmetric Supercapacitors. <i>ChemistrySelect</i> , 2016, 1, 3455-3467.	0.7	58
43	MnCo ₂ S ₄ MXene: A novel hybrid electrode material for high performance long-life asymmetric supercapattery. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 264-277.	5.0	57
44	Supercritical Fluid Facilitated Disintegration of Hexagonal Boron Nitride Nanosheets to Quantum Dots and Its Application in Cells Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18647-18651.	4.0	56
45	Waste Toner-Derived Carbon/Fe ₃ O ₄ Nanocomposite for High-Performance Supercapacitor. <i>ACS Omega</i> , 2019, 4, 15798-15805.	1.6	56
46	High-performance Solid-state Hybrid Energy-storage Device Consisting of Reduced Graphene-Oxide Anchored with NiMn-Layered Double Hydroxide. <i>Electrochimica Acta</i> , 2017, 236, 359-370.	2.6	53
47	Effective shuttling of photoexcitons on CdS/NiO core/shell photocatalysts for enhanced photocatalytic hydrogen production. <i>Materials Research Bulletin</i> , 2018, 101, 223-231.	2.7	53
48	Hydrothermal synthesis of cobalt telluride nanorods for a high performance hybrid asymmetric supercapacitor. <i>RSC Advances</i> , 2020, 10, 13632-13641.	1.7	53
49	Supercritical fluid processing of nitric acid treated nitrogen doped graphene with enhanced electrochemical supercapacitance. <i>RSC Advances</i> , 2014, 4, 52256-52262.	1.7	52
50	Highly conductive NiSe ₂ nanoparticle as a co-catalyst over TiO ₂ for enhanced photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121159.	10.8	51
51	Performance evaluation of B-doped graphene prepared via two different methods in symmetric supercapacitor using various electrolytes. <i>Applied Surface Science</i> , 2019, 491, 560-569.	3.1	50
52	Na ₂ MoO ₄ -Incorporated Polymer Gel Electrolyte for High Energy Density Flexible Supercapacitor. <i>ACS Applied Energy Materials</i> , 2020, 3, 11368-11377.	2.5	49
53	Supercritical fluid processing of N-doped graphene and its application in high energy symmetric supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4044-4057.	3.8	48
54	Rapid, one-pot synthesis of luminescent MoS ₂ nanoscrolls using supercritical fluid processing. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1165-1169.	2.7	46

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55	Facile synthesis of ZnO nanoflowers/reduced graphene oxide nanocomposite using zinc hexacyanoferrate for supercapacitor applications. <i>Materials Letters</i> , 2019, 236, 424-427.	1.3	45
56	Supercritical fluid processing for the synthesis of NiS ₂ nanostructures as efficient electrocatalysts for electrochemical oxygen evolution reactions. <i>Catalysis Science and Technology</i> , 2017, 7, 3591-3597.	2.1	44
57	Synthesis and Characterization of Fullerene Nanowhiskers by Liquid-Liquid Interfacial Precipitation: Influence of C ₆₀ Solubility. <i>Molecules</i> , 2012, 17, 3858-3865.	1.7	43
58	Synthesis of titania wrapped cadmium sulfide nanorods for photocatalytic hydrogen generation. <i>Materials Research Bulletin</i> , 2018, 103, 122-132.	2.7	43
59	Construction of heterostructure based on hierarchical Bi ₂ MoO ₆ and g-C ₃ N ₄ with ease for impressive performance in photoelectrocatalytic water splitting and supercapacitor. <i>Catalysis Science and Technology</i> , 2020, 10, 2427-2442.	2.1	43
60	Development of high quantum efficiency CdS/ZnS core/shell structured photocatalyst for the enhanced solar hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22315-22328.	3.8	42
61	A simple, economical one-pot microwave assisted synthesis of nitrogen and sulfur co-doped graphene for high energy supercapacitors. <i>Electrochimica Acta</i> , 2020, 341, 135999.	2.6	42
62	In-situ Synergistic 2D/2D MXene/BCN Heterostructure for Superlative Energy Density Supercapacitor with Super-Long Life. <i>Small</i> , 2022, 18, e2106051.	5.2	42
63	Mitigating the Surface Degradation and Voltage Decay of Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ Cathode Material through Surface Modification Using Li ₂ ZrO ₃ . <i>ACS Omega</i> , 2017, 2, 2308-2316.	1.6	41
64	NiTe Nanorods as Electrode Material for High Performance Supercapacitor Applications. <i>ChemistrySelect</i> , 2018, 3, 9034-9040.	0.7	41
65	CuO Cr ₂ O ₃ core-shell structured co-catalysts on TiO ₂ for efficient photocatalytic water splitting using direct solar light. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3976-3987.	3.8	40
66	Synthesis of Boron-Doped Graphene by Supercritical Fluid Processing and its Application in Symmetric Supercapacitors using Various Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 1492-1499.	1.7	40
67	Effective coupling of Cu (II) with BiOCl nanosheets for high performance electrochemical supercapacitor and enhanced photocatalytic applications. <i>Applied Surface Science</i> , 2020, 521, 146362.	3.1	39
68	Facile Fabrication of Hierarchical γ -Fe ₂ O ₃ : Self-Assembly and Its Magnetic and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18164-18173.	1.5	38
69	Electrochemical cycling and beyond: unrevealed activation of MoO ₃ for electrochemical hydrogen evolution reactions. <i>Chemical Communications</i> , 2017, 53, 2245-2248.	2.2	38
70	Metal chalcogenide-based core/shell photocatalysts for solar hydrogen production: Recent advances, properties and technology challenges. <i>Journal of Hazardous Materials</i> , 2021, 415, 125588.	6.5	37
71	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H ₂ generation and quantum efficiency at versatile photocatalytic conditions. <i>Journal of Hazardous Materials</i> , 2021, 413, 125359.	6.5	36
72	Synthesis of nanostructured Cu-WO ₃ and CuWO ₄ for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2926-2932.	1.1	33

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73	Nanocrystalline tin compounds/graphene nanocomposite electrodes as anode for lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1767-1774.	1.2	30
74	Electrochemical Performance of Thespesia Populnea Seeds Derived Activated Carbon - Supercapacitor and Its Improved Specific Energy in Redox Additive Electrolytes. <i>Journal of Energy Storage</i> , 2020, 32, 101939.	3.9	30
75	Facile and scalable route to sheets-on-sheet mesoporous Ni ²⁺ /Co-hydroxide/reduced graphene oxide nanocomposites and their electrochemical and magnetic properties. <i>RSC Advances</i> , 2016, 6, 15941-15951.	1.7	29
76	Anchoring of ultrafine Co ₃ O ₄ nanoparticles on MWCNTs using supercritical fluid processing and its performance evaluation towards electrocatalytic oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2017, 7, 1227-1234.	2.1	29
77	The construction of a dual direct Z-scheme NiAl LDH/g-C ₃ N ₄ /Ag ₃ PO ₄ nanocomposite for enhanced photocatalytic oxygen and hydrogen evolution. <i>Nanoscale Advances</i> , 2021, 3, 2075-2088.	2.2	29
78	One-Pot Hydrothermal Synthesis of Nickel Cobalt Telluride Nanorods for Hybrid Energy Storage Systems. <i>Energy & Fuels</i> , 2021, 35, 12527-12537.	2.5	29
79	Boosting the Energy Density of Flexible Supercapacitors by Redox-Additive Hydrogels. <i>Energy & Fuels</i> , 2020, 34, 11536-11546.	2.5	28
80	Black Trumpet Mushroom-like ZnS incorporated with Cu ₃ P: Noble metal free photocatalyst for superior photocatalytic H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 82-93.	5.0	27
81	Supercritical fluid assisted synthesis of S-doped graphene and its symmetric supercapacitor performance evaluation using different electrolytes. <i>Synthetic Metals</i> , 2019, 255, 116111.	2.1	26
82	Fabrication of Flexible Supercapacitor Using N-Doped Porous Activated Carbon Derived from Poultry Waste. <i>Energy & Fuels</i> , 2021, 35, 15094-15100.	2.5	26
83	Sandwich layered Li _{0.32} Al _{0.68} MnO ₂ (OH) ₂ from spent Li-ion battery to build high-performance supercapacitor: Waste to energy storage approach. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154336.	2.8	25
84	Dual heteroatoms doped SBA-15 templated porous carbon for symmetric supercapacitor in dual redox additive electrolyte. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 286-297.	5.0	25
85	Nanographene derived from carbon nanofiber and its application to electric double-layer capacitors. <i>Electrochimica Acta</i> , 2012, 68, 146-152.	2.6	24
86	A 2ÅV asymmetric supercapacitor based on reduced graphene oxide-carbon nanofiber-manganese carbonate nanocomposite and reduced graphene oxide in aqueous solution. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2311-2320.	1.2	24
87	2D/2D Nanoarchitected Nb ₂ C/Ti ₃ C ₂ MXene Heterointerface for High-Energy Supercapacitors with Sustainable Life Cycle. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21038-21049.	4.0	24
88	Ultrasonically aided selective stabilization of pyrrolic type nitrogen by one pot nitrogen doped and hydrothermally reduced Graphene oxide/Titania nanocomposite (N-TiO ₂ /N-RGO) for H ₂ production. <i>Ultrasonics Sonochemistry</i> , 2019, 57, 62-72.	3.8	23
89	Unrevealed Performance of NH ₄ VO ₃ as a Redox-Additive for Augmenting the Energy Density of a Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8068-8079.	1.5	23
90	Structural and electrochemical studies of tungsten oxide (WO ₃) nanostructures prepared by microwave assisted wet-chemical technique for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6157-6166.	1.1	22

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91	Synthesis of GNS-MnS hybrid nanocomposite for enhanced electrochemical energy storage applications. <i>Materials Chemistry and Physics</i> , 2019, 230, 249-257.	2.0	22
92	Preparation and comparison of hybridized WO ₃ –V ₂ O ₅ nanocomposites electrochemical supercapacitor performance in KOH and H ₂ SO ₄ electrolyte. <i>Materials Letters</i> , 2019, 236, 702-705.	1.3	22
93	Long-term durable anti-icing superhydrophobic composite coatings. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47059.	1.3	22
94	Manifestation of enhanced and durable photocatalytic H ₂ production using hierarchically structured Pt@Co ₃ O ₄ /TiO ₂ ternary nanocomposite. <i>Ceramics International</i> , 2021, 47, 10226-10235.	2.3	22
95	Design and fabrication of cobalt and nickel ferrites based flexible electrodes for high-performance energy storage applications. <i>Inorganic Chemistry Communication</i> , 2021, 123, 108344.	1.8	22
96	Effect of orange peel derived activated carbon as a negative additive for lead-acid battery under high rate discharge condition.. <i>Journal of Energy Storage</i> , 2021, 34, 102225.	3.9	22
97	Heterojunction of CdS Nanocapsules–WO ₃ Nanosheets Composite as a Stable and Efficient Photocatalyst for Hydrogen Evolution. <i>Energy & Fuels</i> , 2020, 34, 14598-14610.	2.5	22
98	Enhanced Superhydrophobic Performance of BN-MoS ₂ Heterostructure Prepared via a Rapid, One-Pot Supercritical Fluid Processing. <i>Langmuir</i> , 2017, 33, 6159-6166.	1.6	21
99	Investigating the synergistic effect of hybridized WO ₃ -ZnS nanocomposite prepared by microwave-assisted wet chemical method for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 93-104.	1.9	21
100	Preparation and characterization of Ni incorporated fullerene nanowhiskers. <i>Diamond and Related Materials</i> , 2008, 17, 571-575.	1.8	20
101	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. <i>RSC Advances</i> , 2014, 4, 24248.	1.7	20
102	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H ₂ production in crude glycerol and sulphide wastewater. <i>Environmental Research</i> , 2021, 199, 111323.	3.7	20
103	Solar hydrogen generation from organic substance using earth abundant CuS–NiO heterojunction semiconductor photocatalyst. <i>Ceramics International</i> , 2021, 47, 10206-10215.	2.3	19
104	Augmenting the electrochemical performance of NiMn ₂ O ₄ by doping of transition metal ions and compositing with rGO. <i>Journal of Colloid and Interface Science</i> , 2021, 598, 409-418.	5.0	19
105	Supercritical water assisted preparation of recyclable gold nanoparticles and their catalytic utility in cross-coupling reactions under sustainable conditions. <i>Nanoscale Advances</i> , 2019, 1, 3177-3191.	2.2	18
106	Investigation of electrochemical supercapacitor performance of WO ₃ -CdS nanocomposites in 1M H ₂ SO ₄ electrolyte prepared by microwave-assisted method. <i>Materials Letters</i> , 2020, 274, 127998.	1.3	18
107	Selective precipitation of tubular-like short fullerene (C ₆₀) whiskers at liquid–liquid interface. <i>CrystEngComm</i> , 2010, 12, 4146.	1.3	17
108	Crystallization-Induced Top-Down Wormlike Hierarchical Porous γ -Fe ₂ O ₃ Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6367-6374.	1.5	17

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109	Graphene-Polymer//Graphene-Manganese Oxide Nanocomposites-Based Asymmetric High Energy Supercapacitor with 1.8â€¦V Cell Voltage in Aqueous Solution. <i>ChemistrySelect</i> , 2017, 2, 10754-10761.	0.7	17
110	High-Performance High-Voltage Symmetric Supercapattery Based on a Graphitic Carbon Nitride/Bismuth Vanadate Nanocomposite. <i>Energy & Fuels</i> , 2020, 34, 16858-16869.	2.5	17
111	Retorting Photocorrosion and Enhanced Charge Carrier Separation at CdSe Nanocapsules by Chemically Synthesized TiO ₂ Shell for Photocatalytic Hydrogen Fuel Generation. <i>ChemCatChem</i> , 2020, 12, 3139-3152.	1.8	17
112	Temperature-Driven Morphology Control on CdSe Nanofractals and Its Influence over the Augmented Rate of H ₂ Evolution: Charge Separation via the S-Scheme Mechanism with Incorporated Cu ₃ P. <i>ACS Applied Energy Materials</i> , 2021, 4, 13983-13996.	2.5	17
113	Symmetric electrochemical supercapacitor performance evaluation of N-doped graphene prepared via supercritical fluid processing. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3821-3832.	1.2	16
114	Investigation of electrochemical properties of microwave irradiated tungsten oxide (WO ₃) nanorod structures for supercapacitor electrode in KOH electrolyte. <i>Materials Research Express</i> , 2018, 5, 085007.	0.8	16
115	Enhancement in the Specific Energy of B-doped Graphene Using Redox Additive Electrolytes. <i>ChemistrySelect</i> , 2020, 5, 9825-9833.	0.7	16
116	Supercritically exfoliated Bi ₂ Se ₃ nanosheets for enhanced photocatalytic hydrogen production by topological surface states over TiO ₂ . <i>Journal of Colloid and Interface Science</i> , 2022, 605, 871-880.	5.0	16
117	Waste engine oil derived porous carbon/ZnS Nanocomposite as Bi-functional electrocatalyst for supercapacitor and oxygen reduction. <i>Journal of Energy Storage</i> , 2020, 32, 101774.	3.9	15
118	High and reversible oxygen uptake in carbon dot solutions generated from polyethylene facilitating reactant-enhanced solar light harvesting. <i>Nanoscale</i> , 2020, 12, 10480-10490.	2.8	15
119	One-dimensional growth of hexagonal rods of metastable h-MoO ₃ using one-pot, rapid and environmentally benign supercritical fluid processing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 99, 189-193.	1.3	14
120	Fe (III) ions grafted bismuth oxychloride nanosheets for enhanced electrochemical supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 113958.	1.9	14
121	A facile approach to fabricate <i>Saccharum spontaneum</i> -derived porous carbon-based supercapacitors for excellent energy storage performance in redox active electrolytes. <i>Sustainable Energy and Fuels</i> , 2021, 5, 518-531.	2.5	14
122	TiO ₂ /Carbon allotrope nanohybrids for supercapacitor application with theoretical insights from density functional theory. <i>Applied Surface Science</i> , 2021, 563, 150259.	3.1	14
123	Preparation, characterization, and electrochemical application of metal/metal ion loaded fullerene nanowhiskers. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 835-840.	1.2	13
124	Fabrication of robust superhydrophobic coatings using PTFE-MWCNT nanocomposite: Supercritical fluid processing. <i>Surface and Interface Analysis</i> , 2018, 50, 464-470.	0.8	13
125	Bismuth oxycarbonate Nanoplates@Ni(OH) ₂ nanosheets 2D plate-on-sheet heterostructure as electrode for high-performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158495.	2.8	13
126	Electrochemical degradation of aqueous phenols using graphite electrode in a divided electrolytic cell. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 358-363.	1.2	12

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127	Ultrasound-Assisted Room Temperature Synthesis of Flower-Like-Bi ₅ O ₇ -Incorporated Reduced Graphene Oxide Nanosheets for Highly Efficient Visible-Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20898-20910.	1.5	12
128	BiOCl ultrathin nanosheets modified with Fe ³⁺ for enhanced visible light driven photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 411, 113211.	2.0	12
129	Fullerene nanowhiskers at liquid-liquid interface: A facile template for metal oxide (TiO ₂ , CeO ₂) nanofibers and their photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2011, 130, 211-217.	2.0	11
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