

Chinna Bathula

List of Publications by Year in descending order

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48
papers

1,145
citations

394421

19
h-index

414414

32
g-index

48
all docs

48
docs citations

48
times ranked

856
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile mechanochemical preparation of Co ₃ O ₄ @g-C ₃ N ₄ for application in supercapacitors and degradation of pollutants in water. <i>Journal of Hazardous Materials</i> , 2021, 407, 124360.	12.4	163
2	Investigation of mechanism of heavy metals (Cr ⁶⁺ , Pb ²⁺ & Zn ²⁺) adsorption from aqueous medium using rice husk ash: Kinetic and thermodynamic approach. <i>Chemosphere</i> , 2022, 286, 131796.	8.2	78
3	Highly efficient solid-state synthesis of Co ₃ O ₄ on multiwalled carbon nanotubes for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161307.	5.5	67
4	The role of uniformly distributed ZnO nanoparticles on cellulose nanofibers in flexible solid state symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11580-11594.	10.3	58
5	Catalytic decontamination of organic/inorganic pollutants in water and green H ₂ generation using nanoporous SnS ₂ micro-flower structured film. <i>Journal of Hazardous Materials</i> , 2021, 417, 126105.	12.4	48
6	Sonochemically exfoliated polymer-carbon nanotube interface for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1792-1799.	9.4	47
7	New TIPS-substituted benzo[1,2-b:4,5-b']dithiophene-based copolymers for application in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22224.	6.7	42
8	Ultrasonically driven green synthesis of palladium nanoparticles by <i>Coleus amboinicus</i> for catalytic reduction and Suzuki-Miyaura reaction. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111026.	5.0	42
9	Green synthesis of palladium nanoparticles using fenugreek tea and their catalytic applications in organic reactions. <i>Materials Letters</i> , 2017, 205, 138-141.	2.6	40
10	In situ growth of 1D/2D CdS@Bi ₂ MoO ₆ core shell heterostructures for synergistic enhancement of photocatalytic performance under visible light. <i>Chemosphere</i> , 2021, 275, 130086.	8.2	37
11	Au-Pd bimetallic nanoparticles embedded highly porous Fenugreek polysaccharide based micro networks for catalytic applications. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 352-358.	7.5	35
12	Bimetallic Cu/Fe MOF-Based Nanosheet Film via Binder-Free Drop-Casting Route: A Highly Efficient Urea-Electrolysis Catalyst. <i>Nanomaterials</i> , 2022, 12, 1916.	4.1	33
13	ZIF-8 templated assembly of La ³⁺ -anchored ZnO distorted nano-hexagons as an efficient active photocatalyst for the detoxification of rhodamine B in water. <i>Environmental Pollution</i> , 2021, 272, 116018.	7.5	30
14	Enhanced removal of organic dye by activated carbon decorated TiO ₂ nanoparticles from <i>Mentha Aquatica</i> leaves via ultrasonic approach. <i>Ceramics International</i> , 2021, 47, 8732-8739.	4.8	30
15	A zero-dimensional/two-dimensional Ag@Ag ₂ S@CdS plasmonic nanohybrid for rapid photodegradation of organic pollutant by solar light. <i>Chemosphere</i> , 2022, 296, 133973.	8.2	27
16	Naphtho[1,2-b:5,6-b']dithiophene-based copolymers for applications to polymer solar cells. <i>Polymer Chemistry</i> , 2013, 4, 2132.	3.9	24
17	Ultrasonication-mediated nitrogen-doped multiwalled carbon nanotubes involving carboxy methylcellulose composite for solid-state supercapacitor applications. <i>Scientific Reports</i> , 2021, 11, 9918.	3.3	24
18	Concentration-Dependent Pyrene-Driven Self-Assembly in Benzo[1,2-b:4,5-b']dithiophene (BDT)-Thienothiophene (TT)-Pyrene Copolymers. <i>Macromolecules</i> , 2015, 48, 3509-3515.	4.8	23

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19	Visible light-driven photocatalytic rapid degradation of organic contaminants engaging manganese dioxide-incorporated iron oxide three dimensional nanoflowers. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2347-2357.	9.4	22
20	Bis(2-diketopyrrolopyrrole and Carbazole)-Based Terpolymer for High Performance Organic Field-Effect Transistors and Infra-Red Photodiodes. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900287.	2.2	19
21	Template-free synthesis of one-dimensional cobalt sulfide nanorod array as an attractive architecture for overall water splitting. <i>International Journal of Energy Research</i> , 2021, 45, 2785-2796.	4.5	19
22	Graphitic carbon-encapsulated V ₂ O ₅ nanocomposites as a superb photocatalyst for crystal violet degradation. <i>Environmental Research</i> , 2022, 205, 112201.	7.5	18
23	Sonication-supported synthesis of cobalt oxide assembled on an N-MWCNT composite for electrochemical supercapacitors via three-electrode configuration. <i>Scientific Reports</i> , 2022, 12, 1998.	3.3	17
24	Nanostructurally engineered TiO ₂ embedded <i>Mentha aquatica</i> biowaste derived carbon for supercapacitor applications. <i>Chemosphere</i> , 2022, 289, 133197.	8.2	16
25	Precipitation of (Mg/Fe-CTAB) - Layered double hydroxide nanoparticles onto sewage sludge for producing novel sorbent to remove Congo red and methylene blue dyes from aqueous environment. <i>Chemosphere</i> , 2022, 291, 132693.	8.2	15
26	Fabrication of Multi-functionalized Graphene Oxide Doped Alginate Hybrid Spheres for Enhanced Fluoride Adsorption. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 216-228.	3.7	14
27	Suppressed photocatalytic activity of ZnO based Core@Shell and RCore@Shell nanostructure incorporated in the cellulose nanofiber. <i>Chemosphere</i> , 2021, 269, 129311.	8.2	13
28	Synthesis, Characterization and Optoelectronic Properties of Benzodithiophene Based Copolymers for Application in Solar Cells. <i>Journal of Fluorescence</i> , 2016, 26, 371-376.	2.5	11
29	Facile Synthesis of Triphenylamine Based Hyperbranched Polymer for Organic Field Effect Transistors. <i>Nanomaterials</i> , 2019, 9, 1787.	4.1	11
30	Hole-induced polymerized interfacial film of polythiophene as co-sensitizer and back-electron injection barrier layer in dye-sensitized TiO ₂ nanotube array. <i>Journal of Alloys and Compounds</i> , 2019, 781, 589-594.	5.5	11
31	Acceptor Unit Effects for Ambipolar Organic Field-Effect Transistors Based on TIPS-Benzodithiophene Copolymers. <i>Macromolecular Research</i> , 2019, 27, 90-95.	2.4	10
32	Biogenic palladium nanoparticles: An effectual environmental benign catalyst for organic coupling reactions. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 52-68.	5.8	10
33	Synergistic photocatalysis of Z-scheme type Fe ₂ O ₃ /g-C ₃ N ₄ heterojunction coupled with reduced graphene oxide. <i>Surfaces and Interfaces</i> , 2022, 30, 101910.	3.0	10
34	Facile synthesis and optoelectronic properties of thienopyrroledione based conjugated polymer for organic field effect transistors. <i>Dyes and Pigments</i> , 2021, 186, 108973.	3.7	9
35	Ball-milling route to design hierarchical nanohybrid cobalt oxide structures with cellulose nanocrystals interface for supercapacitors. <i>International Journal of Energy Research</i> , 2022, 46, 8398-8412.	4.5	9
36	Synthesis and Photophysical Studies of Thiadiazole[3,4-c]pyridine Copolymer Based Organic Field-Effect Transistors. <i>Journal of Fluorescence</i> , 2016, 26, 1045-1052.	2.5	8

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37	Synthesis and Optoelectronic Exploration of Highly Conjugated 1,3,4-Oxadiazole Containing Donor- π -Acceptor Chromophores. <i>ChemistrySelect</i> , 2017, 2, 1793-1801.	1.5	8
38	Synthesis, Characterization and Photophysical Studies of Tricoumarin-Pyridines. <i>Journal of Fluorescence</i> , 2017, 27, 419-425.	2.5	7
39	Facile synthesis and optoelectronic exploration of silylthiophene substituted benzodithiophene polymer for organic field effect transistors. <i>Journal of Organometallic Chemistry</i> , 2019, 880, 317-321.	1.8	7
40	Multi-functional Co ₃ O ₄ embedded carbon nanotube architecture for oxygen evolution reaction and benzoin oxidation. <i>Journal of Molecular Liquids</i> , 2021, 343, 117616.	4.9	7
41	Effect of backbone structures on photovoltaic properties in naphthodithiophene-based copolymers. <i>Journal of Polymer Science Part A</i> , 2014, 52, 305-312.	2.3	5
42	Synthesis and photophysical investigations of pyromellitic diimide based small molecules. <i>Inorganic Chemistry Communication</i> , 2019, 102, 20-24.	3.9	5
43	Microwave assisted synthesis of bithiophene based donor-acceptor-donor oligomers and their optoelectronic performances. <i>Journal of Molecular Structure</i> , 2017, 1139, 125-129.	3.6	4
44	Study of PEDOT and analogous polymer film as back-electron injection barrier and electrical charge storing materials. <i>Materials Letters</i> , 2018, 211, 1-4.	2.6	4
45	Synthesis and Characterization of Benzodithiophene-Based Copolymers for Polymer Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 598, 104-110.	0.9	3
46	Optical, Electrochemical and Thermal Studies of Conjugated Polymers Synthesized by Eutectic Melt Reaction. <i>Journal of Fluorescence</i> , 2017, 27, 1067-1073.	2.5	2
47	Efficient synthesis of acetylene-bridged carbazole-based dimer for electrochemical energy storage: Experimental and DFT studies. <i>Journal of Electroanalytical Chemistry</i> , 2021, 889, 115225.	3.8	2
48	Donor-acceptor polymers by solid state eutectic melt reaction for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2017, 720, 473-477.	5.5	1