Ratiram Gomaji Chaudhary

List of Publications by Year
in descending order

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64 papers	1,515 citations	331670 21 h-index	345221 36 g-index
65 all docs	65 docs citations	65 times ranked	976 citing authors

#	Article	IF	Citations
1	Phytosynthesis of nearly monodisperse CuO nanospheres using Phyllanthus reticulatus/Conyza bonariensis and its antioxidant/antibacterial assays. Materials Science and Engineering C, 2019, 99, 783-793.	7.3	112
2	Electrospinning production of nanofibrous membranes. Environmental Chemistry Letters, 2019, 17, 767-800.	16.2	103
3	Mesoporous Octahedron-Shaped Tricobalt Tetroxide Nanoparticles for Photocatalytic Degradation of Toxic Dyes. ACS Omega, 2020, 5, 7823-7835.	3.5	95
4	Microwave-mediated synthesis, photocatalytic degradation and antibacterial activity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml21" display="inline" overflow="scroll" altimg="si1.gif"><mml:mi>Î±</mml:mi></mml:math>-Bi 2 O 3 microflowers/novel<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml22" display="inline" overflow="scroll" altimg="si2.gif"><mml:mi>Î³</mml:mi></mml:math>-Bi 2 O 3 microspindles. Nano Structures Nano Objects, 2018, 13, 121-131.	3.5	76
5	Metal/Metal Oxide Nanoparticles: Toxicity, Applications, and Future Prospects. Current Pharmaceutical Design, 2019, 25, 4013-4029.	1.9	72
6	Synthesis Of Nickel Nanoparticles: Microscopic Investigation, An Efficient Catalyst And Effective Antibacterial Activity. Advanced Materials Letters, 2015, 6, 990-998.	0.6	68
7	Microwave-mediated synthesis of spinel CuAl2O4 nanocomposites for enhanced electrochemical and catalytic performance. Research on Chemical Intermediates, 2018, 44, 2039-2060.	2.7	54
8	Synthesis, characterisation and thermal degradation behaviour of some coordination polymers by using TGâ€“DTG and DTA techniques. Journal of Saudi Chemical Society, 2015, 19, 442-453.	5.2	53
9	Green fabrication of zinc oxide nanospheres by aspidopterys cordata for effective antioxidant and antibacterial activity. Advanced Materials Letters, 2019, 10, 355-360.	0.6	50
10	Thermal decomposition kinetics of some transition metal coordination polymers of fumaroyl bis (paramethoxyphenylcarbamide) using DTG/DTA techniques. Arabian Journal of Chemistry, 2019, 12, 1070-1082.	4.9	49
11	Thermal degradation behaviour of some metal chelate polymer compounds with bis(bidentate) ligand by TG/DTG/DTA. Journal of Thermal Analysis and Calorimetry, 2013, 112, 637-647.	3.6	47
12	Photocatalytic degradation of dyes by nanomaterials. Materials Today: Proceedings, 2020, 29, 967-973.	1.8	45
13	Copper nanoparticles catalysed an efficient one-pot multicomponents synthesis of chromenes derivatives and its antibacterial activity. Journal of Experimental Nanoscience, 2016, 11, 884-900.	2.4	42
14	Histidine-Capped ZnO Nanoparticles: An Efficient Synthesis, Spectral Characterization and Effective Antibacterial Activity. BioNanoScience, 2015, 5, 123-134.	3.5	40
15	Bioinspired NiO Nanospheres: Exploring In Vitro Toxicity Using Bm-17 and L. rohita Liver Cells, DNA Degradation, Docking, and Proposed Vacuolization Mechanism. ACS Omega, 2022, 7, 6869-6884.	3.5	33
16	Effect of Cu Doping on ZnO Nanoparticles as a Photocatalyst for the Removal of Organic Wastewater. Bioinorganic Chemistry and Applications, 2022, 2022, 1-12.	4.1	28
17	Bioinspired graphene-based silver nanoparticles: Fabrication, characterization and antibacterial activity. Materials Today: Proceedings, 2020, 29, 720-725.	1.8	27
18	Rhizoctonia solani assisted biosynthesis of silver nanoparticles for antibacterial assay. Materials Today: Proceedings, 2020, 29, 939-945.	1.8	27

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19	Evaluation of kinetic parameters from TG/DTG data of chelate polymer compounds of isophthaoylbis(paramethoxyphenylcarbamide). Journal of the Chinese Advanced Materials Society, 2013, 1, 305-316.	0.7	24
20	Biosynthesized Î´-Bi₂O₃ Nanoparticles from Crinum viviparum Flower Extract for Photocatalytic Dye Degradation and Molecular Docking. ACS Omega, 2022, 7, 20983-20993.	3.5	24
21	An antibacterial activity of Bauhinia racemosa assisted ZnO nanoparticles during lunar eclipse and docking assay. Materials Today: Proceedings, 2020, 29, 815-821.	1.8	23
22	CO Surrogates: A Green Alternative in Palladium-Catalyzed CO Gas Free Carbonylation Reactions. Current Organic Chemistry, 2020, 24, 2588-2600.	1.6	23
23	Chelate polymer compounds with bis(bidentate) ligand: synthesis, spectral, morphological and thermal degradation studies. Journal of the Chinese Advanced Materials Society, 2013, 1, 121-133.	0.7	22
24	Microspheres/Custardâ€Apples Copper (II) Chelate Polymer: Characterization, Docking, Antioxidant and Antibacterial Assay. ChemistrySelect, 2019, 4, 6233-6244.	1.5	21
25	Biogenic Synthesis of Metal/Metal Oxide Nanostructured Materials. Current Pharmaceutical Biotechnology, 2021, 22, 1782-1793.	1.6	20
26	Thermal, electrical, and mechanical properties of highly filled HDPE/graphite nanoplatelets composites. Materials Today: Proceedings, 2020, 29, 704-708.	1.8	19
27	Bioinspired Reduced Graphene Oxide Based Nanohybrids for Photocatalysis and Antibacterial Applications. Current Pharmaceutical Biotechnology, 2021, 22, 1759-1781.	1.6	19
28	Alumina Nanoparticles: A New And Reusable Catalyst For Synthesis Of Dihydropyrimidinones Derivatives. Advanced Materials Letters, 2016, 7, 933-938.	0.6	19
29	Sulfamic acid promoted one-pot multicomponent reaction: a facile synthesis of 4-oxo-tetrahydroindoles under ball milling conditions. RSC Advances, 2019, 9, 39735-39742.	3.6	18
30	Phytochemically fabricated reduced graphene Oxide-ZnO NCs by Sesbania bispinosa for photocatalytic performances. Materials Today: Proceedings, 2021, 36, 756-762.	1.8	18
31	Silica-coated nickel oxide a core-shell nanostructure: synthesis, characterization and its catalytic property in one-pot synthesis of malononitrile derivative. Journal of the Chinese Advanced Materials Society, 2017, 5, 103-117.	0.7	17
32	An efficient and one-pot synthesis of 2,4,5-trisubstituted imidazole compounds catalyzed by copper nanoparticles. Journal of the Chinese Advanced Materials Society, 2015, 3, 270-279.	0.7	16
33	Microwave-mediated Fabrication of Mesoporous Bi-doped CuAl2O4 Nanocomposites for Antioxidant and Antibacterial Performances. Materials Today: Proceedings, 2019, 15, 454-463.	1.8	16
34	Phytoreduced graphene oxide-titanium dioxide nanocomposites using Moringa oleifera stick extract. Materials Today: Proceedings, 2020, 29, 709-714.	1.8	16
35	Molecular docking and antioxidant activity of Cleome simplicifolia assisted synthesis of cerium oxide nanoparticles. Materials Today: Proceedings, 2020, 29, 1085-1090.	1.8	14
36	Mesoporous PbO nanoparticle-catalyzed synthesis of arylbenzodioxy xanthenedione scaffolds under solvent-free conditions in a ball mill. RSC Advances, 2019, 9, 31683-31690.	3.6	13

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37	CuO nanoparticles: synthesis, characterization and reusable catalyst for polyhydroquinoline derivatives under ultrasonication. Journal of the Chinese Advanced Materials Society, 2016, 4, 110-122.	0.7	12
38	A Survey on Analytical Methods for the Characterization of Green Synthesized Nanomaterials. Current Pharmaceutical Biotechnology, 2021, 22, 823-847.	1.6	12
39	Synthesis, characterization and thermal properties of phthaloylbis(paramethoxyphenylcarbamide) chelate polymers of divalent transition metals. Journal of the Chinese Advanced Materials Society, 2014, 2, 244-258.	0.7	11
40	Synthesis, structural, morphological, and thermal decomposition kinetics of Iron (II) coordination polymer of sebacoyl bis (isonicotinoylhydrazone). Inorganica Chimica Acta, 2017, 462, 298-307.	2.4	11
41	Fabrication of Microflower-shaped Mesoporous Fe (II) Chelate Polymer for Photocatalytic Performance under Visible Light. Materials Today: Proceedings, 2019, 15, 566-574.	1.8	11
42	Fabrication of zinc oxide-decorated phytoreduced graphene oxide nanohybrid via Clerodendrum infortunatum. Emerging Materials Research, 2021, 10, 75-84.	0.7	11
43	Ni-doped ZnO nanocrystalline material for electrocatalytic oxygen reduction reaction. Materials Today: Proceedings, 2020, 29, 715-719.	1.8	10
44	A review on Nanotoxicology: Aquatic environment and biological system. Materials Today: Proceedings, 2020, 29, 1246-1250.	1.8	9
45	Sulfamic Acid as Versatile Green Catalyst Used For Synthetic Organic Chemistry: A Comprehensive Update. ChemistrySelect, 2021, 6, 6867-6889.	1.5	9
46	Nanotechnology Applications in Plant Tissue Culture and Molecular Genetics: A Holistic Approach. Current Nanoscience, 2022, 18, 442-464.	1.2	9
47	An efficient fabrication of polypropylene hybrid nanocomposites using carbon nanotubes and PET fibrils. Materials Today: Proceedings, 2020, 29, 794-800.	1.8	7
48	Oxovanadium (IV) complexes of 2-aryl/heteroaryl-3-hydroxy-4H-chromones: synthesis, spectral and thermal degradation studies. Journal of the Chinese Advanced Materials Society, 2013, 1, 257-267.	0.7	5
49	Graphitic Carbon Nitride-based Photocatalysts for Environmental Remediation of Organic Pollutants. Current Nanoscience, 2023, 19, 148-169.	1.2	5
50	Salicylic Acid Treatment Reduces Lipid Peroxidation and Chlorophyll Degradation and Preserves Quality Attributes of Pointed Gourd Fruit. Journal of Food Quality, 2022, 2022, 1-7.	2.6	4
51	Synthesis, characterization and thermal degradation of some coordination polymers with terephthaladehydebis(S-methyldithiocarbazate). Journal of the Chinese Advanced Materials Society, 2015, 3, 17-31.	0.7	3
52	Oxovanadium (IV) complexes with Oâ€“O donors ligands: efficient synthesis, spectral characterization, antimicrobial activity and thermal degradation. Journal of the Chinese Advanced Materials Society, 2015, 3, 89-101.	0.7	3
53	Construction of five novel coordination polymers based on maloyl-bis-2-aminobenzothiazole: synthesis, structural, thermal, and non-isothermal kinetics. Journal of the Chinese Advanced Materials Society, 2017, 5, 118-132.	0.7	3
54	Synthesis, Characterization, and Applications of Green Synthesized Nanomaterials (Part 1). Current Pharmaceutical Biotechnology, 2021, 22, 722-723.	1.6	3

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55	Management of nanomaterial wastes. , 2022, , 125-144.		3
56	Phytofabrication of metal oxide/iron-based and their therapeutic and their therapeutic potentials: in-depth insights into the recent progress. , 2022, , 185-216.		3
57	Synthesis and characterization of metal coordination polymers with fumaroylbis(paramethoxyphenylcarbamide) by using FTIR, XRD, SEM and TG techniques. Journal of the Chinese Advanced Materials Society, 2015, 3, 177-187.	0.7	2
58	Phytofabrication of nickel-based nanoparticles: focus on environmental benign technology and therapeutic perspectives. , 2022, , 41-57.		2
59	Synthesis, spectral and thermal aspect of transition metal coordination polymers with bis-hydrazone ligand. Journal of the Chinese Advanced Materials Society, 2015, 3, 287-299.	0.7	1
60	Transition metal coordination polymers: Microwave-assisted synthesis, morphology, conductivity, and decomposition kinetics by TG/DTA techniques. Journal of the Chinese Advanced Materials Society, 2018, 6, 234-254.	0.7	1
61	Biogenic Synthesis and Applications of Nanomaterials (Part II). Current Pharmaceutical Biotechnology, 2021, 22, 1684-1685.	1.6	1
62	Rationale and trends of applied nanotechnology. , 2022, , 373-389.		1
63	Facile synthesis, thermal degradation and effective antimicrobial activities of Cu (II) complexes withbis[3-acetoxy-2-aryl/heteroaryl-4H-chromone]. Journal of the Chinese Advanced Materials Society, 2016, 4, 195-210.	0.7	0
64	Fabrications and applications of polymerâ€“graphene nanocomposites for sustainability. , 2022, , 149-184.		0