

H C Ananda Murthy

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,849
citations

331670

21
h-index

330143

37
g-index

81
all docs

81
docs citations

81
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-friendly synthesis of copper nanoparticles using <i>Mentha pulegium</i> leaf extract: characterisation, antibacterial and cytotoxic activities. <i>Materials Technology</i> , 2022, 37, 1523-1531.	3.0	12
2	Chromium (III) doped polycrystalline MgAl ₂ O ₄ nanoparticles for photocatalytic and supercapacitor applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 161, 110491.	4.0	18
3	Facile green synthesis of Molybdenum oxide nanoparticles using <i>Centella Asiatica</i> plant: Its photocatalytic and electrochemical lead sensor applications. <i>Sensors International</i> , 2022, 3, 100153.	8.4	13
4	Studies on Synthesis and Characterization of Fe ₃ O ₄ @SiO ₂ @Ru Hybrid Magnetic Composites for Reusable Photocatalytic Application. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	9
5	Phytochemical Analysis, α -Glucosidase and Amylase Inhibitory, and Molecular Docking Studies on <i>Persicaria hydropiper</i> L. Leaves Essential Oils. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-11.	1.2	20
6	Facile green synthesis of lanthanum oxide nanoparticles using <i>Centella Asiatica</i> and <i>Tridax</i> plants: Photocatalytic, electrochemical sensor and antimicrobial studies. <i>Applied Surface Science Advances</i> , 2022, 7, 100210.	6.8	11
7	Probe Sonicated Synthesis of Bismuth Oxide (Bi ₂ O ₃): Photocatalytic Application and Electrochemical Sensing of Ascorbic Acid and Lead. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-13.	2.7	27
8	Insights into ZnO-based doped porous nanocrystal frameworks. <i>RSC Advances</i> , 2022, 12, 5816-5833.	3.6	26
9	Eco-friendly synthesis and characterizations of Ag/AgO/Ag ₂ O nanoparticles using leaf extracts of <i>Solanum elaeagnifolium</i> for antioxidant, anticancer, and DNA cleavage activities. <i>Chemical Papers</i> , 2022, 76, 4309-4321.	2.2	12
10	<i>Solanum tuberosum</i> Leaf Extract Templated Synthesis of Co ₃ O ₄ Nanoparticles for Electrochemical Sensor and Antibacterial Applications. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-15.	4.1	11
11	Antioxidant, Antimicrobial, and Photocatalytic Potential of Cobalt Fluoride (CoF ₂) Nanoparticles. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	5
12	Biogenic Synthesis of Magnetite Nanoparticles Using Leaf Extract of <i>Thymus schimperi</i> and Their Application for Monocomponent Removal of Chromium and Mercury Ions from Aqueous Solution. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-15.	2.7	13
13	Removal of Methylene Blue from Aqueous Solution Using Black Tea Wastes: Used as Efficient Adsorbent. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	21
14	Analgesic and Anti-Inflammatory Potentials of a Less Ulcerogenic Thiadiazinethione Derivative in Animal Models: Biochemical and Histochemical Correlates. <i>Drug Design, Development and Therapy</i> , 2022, Volume 16, 1143-1157.	4.3	7
15	Novel trends for synthesis of carbon nanomaterial-based sensors. , 2022, , 29-42.		1
16	C-Reactive Protein and High-Sensitive Cardiac Troponins Correlate with Oxidative Stress in Valvular Heart Disease Patients. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-10.	4.0	10
17	Removal of Safranin-T and Toluidine from Water through Gum Arabic/Acrylamide Hydrogel. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	5
18	Underlying Anticancer Mechanisms and Synergistic Combinations of Phytochemicals with Cancer Chemotherapeutics: Potential Benefits and Risks. <i>Journal of Food Quality</i> , 2022, 2022, 1-15.	2.6	23

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19	Activated Sawdust-Based Adsorbent for the Removal of Basic Blue 3 and Methylene Green from Aqueous Media. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	3
20	Synthesis of ZnO nanoparticles mediated by natural products of <i>Acanthus sennii</i> leaf extract for electrochemical sensing and photocatalytic applications: a comparative study of volume ratios. <i>Chemical Papers</i> , 2022, 76, 5967-5983.	2.2	11
21	Eco-friendly synthesis of silver nanostructures using medicinal plant <i>Vernonia amygdalina</i> Del. leaf extract for multifunctional applications. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 535-551.	3.1	20
22	Synthesis and characterization of ZnO/PVA nanocomposites for antibacterial and electrochemical applications. <i>Inorganic and Nano-Metal Chemistry</i> , 2021, 51, 1127-1138.	1.6	20
23	Facile chemical synthesis of Ca ₃ MgAl ₁₀ O ₁₇ nanomaterials for photocatalytic and non-enzymatic sensor applications. <i>Sensors International</i> , 2021, 2, 100082.	8.4	7
24	Green synthesis of metal oxide nanomaterials for biofuel production. , 2021, , 237-257.		0
25	Proficient synthesis of zinc oxide nanoparticles from <i>Tabernaemontana heyneana</i> Wall. via green combustion method: Antioxidant, anti-inflammatory, antidiabetic, anticancer and photocatalytic activities. <i>Results in Chemistry</i> , 2021, 3, 100178.	2.0	16
26	Graphene-supported nanomaterials as electrochemical sensors: A mini review. <i>Results in Chemistry</i> , 2021, 3, 100131.	2.0	18
27	Structure, morphology and electrochemical properties of SrTiO ₃ perovskite: Photocatalytic and supercapacitor applications. <i>Environmental Chemistry and Ecotoxicology</i> , 2021, 3, 241-248.	9.1	25
28	La ₁₀ Si ₆ O ₂₇ :Tb ³⁺ nanomaterial; its photocatalytic and electrochemical sensor activities on Disperse Orange and Fast Blue dyes. <i>Sensors International</i> , 2021, 2, 100076.	8.4	13
29	Multifunctional application of PVA-aided Zn-Fe-Mn coupled oxide nanocomposite. <i>Nanoscale Research Letters</i> , 2021, 16, 1.	5.7	102
30	Photocatalytic and superior ascorbic acid sensor activities of PVA/Zn-Fe-Mn ternary oxide nanocomposite. <i>Inorganic Chemistry Communication</i> , 2021, 123, 108343.	3.9	18
31	A novel poly (vinyl alcohol)-aided ZnO/Fe ₂ O ₃ nanocomposite as an ascorbic acid sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7778-7790.	2.2	13
32	NiO bio-composite materials: Photocatalytic, electrochemical and supercapacitor applications. <i>Applied Surface Science Advances</i> , 2021, 3, 100049.	6.8	24
33	Harnessing ZnO nanoparticles for antimicrobial and photocatalytic activities. <i>Journal of Photochemistry and Photobiology</i> , 2021, 6, 100021.	2.5	20
34	Fabrication of carbonized flakes epoxy electrode using lemon rind for supercapacitor applications. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100090.	6.1	2
35	Methotrexate-Loaded Gelatin and Polyvinyl Alcohol (Gel/PVA) Hydrogel as a pH-Sensitive Matrix. <i>Polymers</i> , 2021, 13, 2300.	4.5	31
36	Antimicrobial, antioxidant, anti-glycation and toxicity studies on silver nanoparticles synthesized using <i>Rosa damascena</i> flower extract. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 519-533.	4.7	11

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37	Synthesis and characterizations of metal ions doped barium strontium titanate (BST) nanomaterials for photocatalytic and electrical applications: A mini review. <i>International Journal of Materials Research</i> , 2021, 112, 665-677.	0.3	18
38	Role of Phytonutrients in Nutrigenetics and Nutrigenomics Perspective in Curing Breast Cancer. <i>Biomolecules</i> , 2021, 11, 1176.	4.0	25
39	Advancement in specific strand scission of DNA and evaluation of in-vitro biological assessment by pharmacologically significant tetraaza macrocyclic metal complexes constrained by triazole. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2021, 40, 1-18.	1.1	1
40	Enhanced multifunctionality of CuO nanoparticles synthesized using aqueous leaf extract of <i>Vernonia amygdalina</i> plant. <i>Results in Chemistry</i> , 2021, 3, 100141.	2.0	27
41	Synthesis of Poly(vinyl alcohol)-Aided ZnO/Mn ₂ O ₃ Nanocomposites for Acid Orange-8 Dye Degradation: Mechanism and Antibacterial Activity. <i>ACS Omega</i> , 2021, 6, 954-964.	3.5	42
42	Synthesis and Characterization of Nickel Cobalt Vanadate (NiCo ₂ V ₂ O ₈) Nanostructures: Photocatalytic and Supercapacitor Applications. <i>Asian Journal of Chemistry</i> , 2021, 33, 2831-2838.	0.3	4
43	Enhanced photocatalytic degradation of Rhodamine B, antibacterial and antioxidant activities of green synthesised ZnO/N doped carbon quantum dot nanocomposites. <i>New Journal of Chemistry</i> , 2021, 45, 21852-21862.	2.8	17
44	Evaluation of Corrosion Inhibition Efficiency of Aluminum Alloy 2024 by Diaminostilbene and Azobenzene Schiff Bases in 1% Hydrochloric Acid. <i>International Journal of Corrosion</i> , 2021, 2021, 1-20.	1.1	6
45	Carbon nanotubes: a review on green synthesis, growth mechanism and application as a membrane filter for fluoride remediation. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 647-664.	4.7	14
46	Green Synthesis of Ni-Cu-Zn Based Nanosized Metal Oxides for Photocatalytic and Sensor Applications. <i>Crystals</i> , 2021, 11, 1467.	2.2	22
47	Silver Doped Polyaniline-Graphene Based Barium Ferrite Composite as Humidity Sensor and Photocatalyst. <i>Asian Journal of Chemistry</i> , 2021, 33, 3075-3081.	0.3	0
48	Graphene: A Multifunctional Nanomaterial with Versatile Applications. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-8.	1.8	17
49	Evaluation of Electrochemical and Anticorrosion Properties of Polyaniline-Fly Ash Nanocomposite. <i>International Journal of Corrosion</i> , 2021, 2021, 1-10.	1.1	3
50	Synthesis and Characterization of Ti-Fe Oxide Nanomaterials: Adsorption-Degradation of Methyl Orange Dye. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4609-4620.	3.0	22
51	Photoluminescence and electrochemical performances of Eu ³⁺ -doped La ₁₀ Si ₆ O ₂₇ nanophosphor: Display and electrochemical sensor applications. <i>Applied Surface Science Advances</i> , 2020, 1, 100026.	6.8	7
52	Synthesis and Characterization of PVA-Assisted Metal Oxide Nanomaterials: Surface Area, Porosity, and Electrochemical Property Improvement. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-14.	2.7	21
53	Lanthanum Doped Strontium Titanate Nanomaterial for Photocatalytic and Supercapacitor Applications. <i>Asian Journal of Chemistry</i> , 2020, 32, 2013-2020.	0.3	6
54	Electrochemical properties of biogenic silver nanoparticles synthesized using <i>Hagenia abyssinica</i> (Brace) JF. Gmel. medicinal plant leaf extract. <i>Materials Research Express</i> , 2020, 7, 055016.	1.6	32

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55	Synthesis of Green Copper Nanoparticles Using Medicinal Plant <i>Hagenia abyssinica</i> (Brace) JF. Gmel. Leaf Extract: Antimicrobial Properties. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-12.	2.7	109
56	Enhancing the photocatalytic efficiency of ZnO: Defects, heterojunction, and optimization. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 14, 100336.	2.9	45
57	Porous PVA/Zn-Fe-Mn oxide nanocomposites: methylene blue dye adsorption studies. <i>Materials Research Express</i> , 2020, 7, 065002.	1.6	23
58	A Review on Synthesis and Characterization of Ag ₂ O Nanoparticles for Photocatalytic Applications. <i>Journal of Chemistry</i> , 2020, 2020, 1-15.	1.9	92
59	Enhanced photocatalytic and electrochemical performance of TiO ₂ -Fe ₂ O ₃ nanocomposite: Its applications in dye decolorization and as supercapacitors. <i>Scientific Reports</i> , 2020, 10, 1249.	3.3	88
60	PVA assisted ZnO based mesoporous ternary metal oxides nanomaterials: synthesis, optimization, and evaluation of antibacterial activity. <i>Materials Research Express</i> , 2020, 7, 045011.	1.6	31
61	A Review on Enhancing the Antibacterial Activity of ZnO: Mechanisms and Microscopic Investigation. <i>Nanoscale Research Letters</i> , 2020, 15, 190.	5.7	185
62	Synthesis of ZnO and ZnO/PVA nanocomposite using aqueous Moringa Oleifera leaf extract template: antibacterial and electrochemical activities. <i>Reviews on Advanced Materials Science</i> , 2020, 59, 464-476.	3.3	44
63	Latent Fingerprint Enhancement Techniques: A Review. <i>Journal of Chemical Reviews</i> , 2020, 2, 40-56.	3.3	12
64	Electrochemical and Photocatalytic Properties of Green Nickel Oxide Nanomaterial Synthesized using <i>Plectranthus Amboinicus</i> Plant Leaf Extract. <i>Advanced Materials Letters</i> , 2020, 11, 1-6.	0.6	9
65	Synthesis and Characterization of Green CuO using <i>Centella Asiatica</i> Plant Leaf Extract: Electrochemical and Photocatalytic Activities. <i>Advanced Materials Letters</i> , 2020, 11, 1-6.	0.6	9
66	Evaluation of bi-functional applications of ZnO nanoparticles prepared by green and chemical methods. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103468.	6.7	61
67	Fabrication of electrical porcelain insulator from ceramic raw materials of Oromia region, Ethiopia. <i>Heliyon</i> , 2019, 5, e02327.	3.2	22
68	Nano sized Fe-Al oxide mixed with natural maize cob sorbent for lead remediation. <i>Materials Research Express</i> , 2019, 6, 085043.	1.6	10
69	Application of Novel Clay Composite Adsorbent for Fluoride Removal. <i>Material Science Research India</i> , 2019, 16, 164-173.	0.7	5
70	Synthesis, Characterization and Methyl Orange Degradation Activity of Ti-Al Oxides Nanomaterial. <i>Material Science Research India</i> , 2019, 16, 252-260.	0.7	3
71	Polypyrrole based biofunctional composite layer for bioelectrocatalytic device system. <i>Advanced Materials Letters</i> , 2019, 10, 524-532.	0.6	4
72	Determination of Heavy Metals in Tomato and its Support Soil Samples from Horticulture and Floriculture Industrial area, Ziway, Ethiopia. <i>Research & Development in Material Science</i> , 2019, 10, .	0.1	0

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73	Synthesis and Characterization of Humic Acid-coated Fe ₃ O ₄ Nanoparticles for Methylene Blue Adsorption Activity. <i>Advanced Materials Letters</i> , 2019, 10, 715-723.	0.6	5
74	Synthesis and Characterization of Ti-Fe Oxide Nanomaterials for Lead Removal. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-10.	2.7	25
75	A Review on Green Synthesis and Applications of Cu and CuO Nanoparticles. <i>Material Science Research India</i> , 2018, 15, 279-295.	0.7	43
76	Fe-Oxide Nanomaterial: Synthesis, Characterization and Lead Removal. <i>Journal of Encapsulation and Adsorption Sciences</i> , 2018, 08, 195-209.	0.3	5
77	Summary on Adsorption and Photocatalysis for Pollutant Remediation: Mini Review. <i>Journal of Encapsulation and Adsorption Sciences</i> , 2018, 08, 225-255.	0.3	83
78	Adsorption Of Mercury From Aqueous Solution Using Gum Acacia-Silica Composite: Kinetics, Isotherms And Thermodynamics Studies. <i>Advanced Materials Letters</i> , 2016, 7, 673-678.	0.6	3
79	Influence Of TiC Particulate Reinforcement On The Corrosion Behaviour Of Al 6061 Metal Matrix Composites. <i>Advanced Materials Letters</i> , 2015, 6, 633-640.	0.6	28
80	Effect of TiN particulate reinforcement on corrosive behaviour of aluminium 6061 composites in chloride medium. <i>Bulletin of Materials Science</i> , 2013, 36, 1057-1066.	1.7	23
81	Lanthanum oxide nanoparticles as chemical sensor for direct detection of carboxymethyl cellulose in eye drops. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-7.	1.6	0