

H C Ananda Murthy

List of Publications by Year in descending order

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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	A Review on Enhancing the Antibacterial Activity of ZnO: Mechanisms and Microscopic Investigation. <i>Nanoscale Research Letters</i> , 2020, 15, 190.	5.7	185
2	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
3	Multifunctional application of PVA-aided Zn-Fe-Mn coupled oxide nanocomposite. <i>Nanoscale Research Letters</i> , 2021, 16, 1.	5.7	102
4	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
5	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
6	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
7	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
8	Enhancing the photocatalytic efficiency of ZnO: Defects, heterojunction, and optimization. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 14, 100336.	2.9	45
9	Synthesis of ZnO and ZnO/PVA nanocomposite using aqueous <i>Moringa Oleifera</i> leaf extract template: antibacterial and electrochemical activities. <i>Reviews on Advanced Materials Science</i> , 2020, 59, 464-476.	3.3	44
10	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
11	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
12	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
13	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
14	Methotrexate-Loaded Gelatin and Polyvinyl Alcohol (Gel/PVA) Hydrogel as a pH-Sensitive Matrix. <i>Polymers</i> , 2021, 13, 2300.	4.5	31
15	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
16	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
17	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
18	Insights into ZnO-based doped porous nanocrystal frameworks. <i>RSC Advances</i> , 2022, 12, 5816-5833.	3.6	26

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19	Synthesis and Characterization of Ti-Fe Oxide Nanomaterials for Lead Removal. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-10.	2.7	25
20	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
21	Role of Phytonutrients in Nutrigenetics and Nutrigenomics Perspective in Curing Breast Cancer. <i>Biomolecules</i> , 2021, 11, 1176.	4.0	25
22	NiO bio-composite materials: Photocatalytic, electrochemical and supercapacitor applications. <i>Applied Surface Science Advances</i> , 2021, 3, 100049.	6.8	24
23	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
24	Porous PVA/Zn-Fe-Mn oxide nanocomposites: methylene blue dye adsorption studies. <i>Materials Research Express</i> , 2020, 7, 065002.	1.6	23
25	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
26	Fabrication of electrical porcelain insulator from ceramic raw materials of Oromia region, Ethiopia. <i>Heliyon</i> , 2019, 5, e02327.	3.2	22
27	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
28	Green Synthesis of Ni-Cu-Zn Based Nanosized Metal Oxides for Photocatalytic and Sensor Applications. <i>Crystals</i> , 2021, 11, 1467.	2.2	22
29	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
30	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
31	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
32	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
33	Harnessing ZnO nanoparticles for antimicrobial and photocatalytic activities. <i>Journal of Photochemistry and Photobiology</i> , 2021, 6, 100021.	2.5	20
34	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
35	Graphene-supported nanomaterials as electrochemical sensors: A mini review. <i>Results in Chemistry</i> , 2021, 3, 100131.	2.0	18
36	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

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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. International Journal of Materials Research, 2021, 112, 665-677.	0.3	18
38	Chromium (III) doped polycrystalline MgAl ₂ O ₄ nanoparticles for photocatalytic and supercapacitor applications. Journal of Physics and Chemistry of Solids, 2022, 161, 110491.	4.0	18
39	Enhanced photocatalytic degradation of Rhodamine B, antibacterial and antioxidant activities of green synthesised ZnO/N doped carbon quantum dot nanocomposites. New Journal of Chemistry, 2021, 45, 21852-21862.	2.8	17
40	Graphene: A Multifunctional Nanomaterial with Versatile Applications. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.8	17
41	Proficient synthesis of zinc oxide nanoparticles from <i>Tabernaemontana heyneana</i> Wall. via green combustion method: Antioxidant, anti-inflammatory, antidiabetic, anticancer and photocatalytic activities. Results in Chemistry, 2021, 3, 100178.	2.0	16
42	Carbon nanotubes: a review on green synthesis, growth mechanism and application as a membrane filter for fluoride remediation. Green Chemistry Letters and Reviews, 2021, 14, 647-664.	4.7	14
43	La ₁₀ Si ₆ O ₂₇ :Tb ³⁺ nanomaterial; its photocatalytic and electrochemical sensor activities on Disperse Orange and Fast Blue dyes. Sensors International, 2021, 2, 100076.	8.4	13
44	A novel poly (vinyl alcohol)-aided ZnO/Fe ₂ O ₃ nanocomposite as an ascorbic acid sensor. Journal of Materials Science: Materials in Electronics, 2021, 32, 7778-7790.	2.2	13
45	Facile green synthesis of Molybdenum oxide nanoparticles using <i>Centella Asiatica</i> plant: Its photocatalytic and electrochemical lead sensor applications. Sensors International, 2022, 3, 100153.	8.4	13
46	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. Journal of Nanomaterials, 2022, 2022, 1-15.	2.7	13
47	Eco-friendly synthesis of copper nanoparticles using <i>Mentha pulegium</i> leaf extract: characterisation, antibacterial and cytotoxic activities. Materials Technology, 2022, 37, 1523-1531.	3.0	12
48	Latent Fingerprint Enhancement Techniques: A Review. Journal of Chemical Reviews, 2020, 2, 40-56.	3.3	12
49	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. Chemical Papers, 2022, 76, 4309-4321.	2.2	12
50	Antimicrobial, antioxidant, anti-glycation and toxicity studies on silver nanoparticles synthesized using <i>Rosa damascena</i> flower extract. Green Chemistry Letters and Reviews, 2021, 14, 519-533.	4.7	11
51	Facile green synthesis of lanthanum oxide nanoparticles using <i>Centella Asiatica</i> and <i>Tridax</i> plants: Photocatalytic, electrochemical sensor and antimicrobial studies. Applied Surface Science Advances, 2022, 7, 100210.	6.8	11
52	<i>Solanum tuberosum</i> Leaf Extract Templated Synthesis of Co ₃ O ₄ Nanoparticles for Electrochemical Sensor and Antibacterial Applications. Bioinorganic Chemistry and Applications, 2022, 2022, 1-15.	4.1	11
53	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. Chemical Papers, 2022, 76, 5967-5983.	2.2	11
54	Nano sized Fe-Al oxide mixed with natural maize cob sorbent for lead remediation. Materials Research Express, 2019, 6, 085043.	1.6	10

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	Lanthanum Doped Strontium Titanate Nanomaterial for Photocatalytic and Supercapacitor Applications. <i>Asian Journal of Chemistry</i> , 2020, 32, 2013-2020.	0.3	6
63	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
64	Application of Novel Clay Composite Adsorbent for Fluoride Removal. <i>Material Science Research India</i> , 2019, 16, 164-173.	0.7	5
65	Fe-Oxide Nanomaterial: Synthesis, Characterization and Lead Removal. <i>Journal of Encapsulation and Adsorption Sciences</i> , 2018, 08, 195-209.	0.3	5
66	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
67	Antioxidant, Antimicrobial, and Photocatalytic Potential of Cobalt Fluoride (CoF ₂) Nanoparticles. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	5
68	Removal of Safranin-T and Toluidine from Water through Gum Arabic/Acrylamide Hydrogel. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	5
69	Polypyrrole based biofunctional composite layer for bioelectrocatalytic device system. <i>Advanced Materials Letters</i> , 2019, 10, 524-532.	0.6	4
70	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
71	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
72	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

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73	Evaluation of Electrochemical and Anticorrosion Properties of Polyaniline-Fly Ash Nanocomposite. International Journal of Corrosion, 2021, 2021, 1-10.	1.1	3
74	Activated Sawdust-Based Adsorbent for the Removal of Basic Blue 3 and Methylene Green from Aqueous Media. Adsorption Science and Technology, 2022, 2022, .	3.2	3
75	Fabrication of carbonized flakes epoxy electrode using lemon rind for supercapacitor applications. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100090.	6.1	2
76	Advancement in specific strand scission of DNA and evaluation of in-vitro biological assessment by pharmacologically significant tetraaza macrocyclic metal complexes constrained by triazole. Nucleosides, Nucleotides and Nucleic Acids, 2021, 40, 1-18.	1.1	1
77	Novel trends for synthesis of carbon nanomaterial-based sensors. , 2022, , 29-42.		1
78	Green synthesis of metal oxide nanomaterials for biofuel production. , 2021, , 237-257.		0
79	Determination of Heavy Metals in Tomato and its Support Soil Samples from Horticulture and Floriculture Industrial area, Ziway, Ethiopia. Research & Development in Material Science, 2019, 10, .	0.1	0
80	Silver Doped Polyaniline-Graphene Based Barium Ferrite Composite as Humidity Sensor and Photocatalyst. Asian Journal of Chemistry, 2021, 33, 3075-3081.	0.3	0
81	Lanthanum oxide nanoparticles as chemical sensor for direct detection of carboxymethyl cellulose in eye drops. Inorganic and Nano-Metal Chemistry, 0, , 1-7.	1.6	0