Vinayagam Ramesh

List of Publications by Year
in descending order

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40 papers	2,171 citations	236833 25 h-index	302012 39 g-index
41 all docs	41 docs citations	41 times ranked	2027 citing authors

#	Article	IF	Citations
1	Green biosynthesis of silver nanoparticles using Calliandra haematocephala leaf extract, their antibacterial activity and hydrogen peroxide sensing capability. Arabian Journal of Chemistry, 2017, 10, 253-261.	2.3	260
2	Aqueous Two Phase Systems for the Recovery of Biomolecules â€“ A Review. Science and Technology, 2012, 1, 7-16.	0.3	192
3	Photocatalytic degradation of Rhodamine B by zinc oxide nanoparticles synthesized using the leaf extract of Cyanometra ramiflora. Journal of Photochemistry and Photobiology B: Biology, 2019, 199, 111621.	1.7	190
4	Structural characterization, antibacterial and catalytic effect of iron oxide nanoparticles synthesised using the leaf extract of Cynometra ramiflora. Journal of Molecular Structure, 2017, 1128, 572-578.	1.8	161
5	Phyto-synthesis of silver nanoparticles from Mussaenda erythrophylla leaf extract and their application in catalytic degradation of methyl orange dye. Journal of Molecular Liquids, 2016, 221, 1063-1070.	2.3	120
6	Synthesis, characterization and photocatalytic dye degradation capability of Calliandra haematocephala-mediated zinc oxide nanoflowers. Journal of Photochemistry and Photobiology B: Biology, 2020, 203, 111760.	1.7	117
7	A critical review on production of bioethanol from macroalgal biomass. Algal Research, 2019, 42, 101606.	2.4	87
8	Photocatalytic zinc oxide nanoparticles synthesis using Peltophorum pterocarpum leaf extract and their characterization. Optik, 2019, 185, 248-255.	1.4	79
9	Biogenic synthesis of ferric oxide nanoparticles using the leaf extract of Peltophorum pterocarpum and their catalytic dye degradation potential. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101251.	1.5	78
10	Dye degradation and antibacterial activity of green synthesized silver nanoparticles using Ipomoea digitata Linn. flower extract. International Journal of Environmental Science and Technology, 2019, 16, 2395-2404.	1.8	61
11	Green synthesis of silver nanoparticles using Thunbergia grandiflora flower extract and its catalytic action in reduction of Congo red dye. Materials Today: Proceedings, 2020, 23, 39-42.	0.9	56
12	Artificial neural network and statistical modelling of biosorptive removal of hexavalent chromium using macroalgal spent biomass. Chemosphere, 2022, 296, 133965.	4.2	53
13	Magnetic activated charcoal/Fe2O3 nanocomposite for the adsorptive removal of 2,4-Dichlorophenoxyacetic acid (2,4-D) from aqueous solutions: Synthesis, characterization, optimization, kinetic and isotherm studies. Chemosphere, 2022, 286, 131938.	4.2	52
14	Structural characterization of green synthesized Î±-Fe2O3 nanoparticles using the leaf extract of Spondias dulcis. Surfaces and Interfaces, 2020, 20, 100618.	1.5	49
15	Antibacterial and anticoagulant activity of silver nanoparticles synthesised from a novel sourceâ€“pods of Peltophorum pterocarpum. Journal of Industrial and Engineering Chemistry, 2015, 29, 257-264.	2.9	47
16	Structural characterization of silver nanoparticles phyto-mediated by a plant waste, seed hull of Vigna mungo and their biological applications. Journal of Molecular Structure, 2017, 1147, 629-635.	1.8	44
17	Evaluation of the Anticoagulant and Catalytic Activities of the Bridelia retusa Fruit Extract-Functionalized Silver Nanoparticles. Journal of Cluster Science, 2017, 28, 2919-2932.	1.7	42
18	Green synthesis of magnetic Î±â€“Fe2O3 nanospheres using Bridelia retusa leaf extract for Fenton-like degradation of crystal violet dye. Applied Nanoscience (Switzerland), 2021, 11, 2227-2234.	1.6	39

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19	Green synthesis, structural characterization, and catalytic activity of silver nanoparticles stabilized with Bridelia retusa leaf extract. Green Processing and Synthesis, 2018, 7, 30-37.	1.3	38
20	Structural characterization of green synthesized magnetic mesoporous Fe3O4NPs@ME. Materials Chemistry and Physics, 2021, 262, 124323.	2.0	33
21	Characterization of silver nano-spheres synthesized using the extract of Arachis hypogaea nuts and their catalytic potential to degrade dyes. Materials Chemistry and Physics, 2021, 272, 125017.	2.0	33
22	Recovery of value-added products from wastewater using Aqueous Two-Phase Systems â€“ A review. Science of the Total Environment, 2021, 778, 146293.	3.9	32
23	Adsorptive removal of Acid Blue 113 using hydroxyapatite nanoadsorbents synthesized using Peltophorum pterocarpum pod extract. Chemosphere, 2022, 299, 134752.	4.2	32
24	Green synthesis and structural characterization of silver nanoparticles synthesized using the pod extract of Clitoria ternatea and its application towards dye degradation. Materials Today: Proceedings, 2020, 23, 27-29.	0.9	31
25	Rapid photocatalytic degradation of 2, 4-dichlorophenoxy acetic acid by ZnO nanoparticles synthesized using the leaf extract of Muntingia calabura. Journal of Molecular Structure, 2022, 1263, 133127.	1.8	28
26	Superparamagnetic hematite spheroids synthesis, characterization, and catalytic activity. Chemosphere, 2022, 294, 133730.	4.2	25
27	Modelling of fermentative bioethanol production from indigenous Ulva prolifera biomass by Saccharomyces cerevisiae NFCCI1248 using an integrated ANN-GA approach. Science of the Total Environment, 2021, 791, 148429.	3.9	23
28	Characterization and photocatalytic activity of ZnO nanoflowers synthesized using Bridelia retusa leaf extract. Applied Nanoscience (Switzerland), 2023, 13, 493-502.	1.6	22
29	Green synthesized hydroxyapatite nanoadsorbent for the adsorptive removal of AB113 dye for environmental applications. Environmental Research, 2022, 212, 113274.	3.7	22
30	Synthesis of photocatalytic zinc oxide nanoflowers using Peltophorum pterocarpum pod extract and their characterization. Applied Nanoscience (Switzerland), 2023, 13, 847-857.	1.6	17
31	Evaluation of seasonal variation and the optimization of reducing sugar extraction from Ulva prolifera biomass using thermochemical method. Environmental Science and Pollution Research, 2021, 28, 58857-58871.	2.7	15
32	Plant-mediated gold and silver nanoparticles as detectors of heavy metal contamination. Food and Chemical Toxicology, 2022, 167, 113271.	1.8	15
33	Production and extraction of red pigment by solid-state fermentation of broken rice using Monascus sanguineus NFCCI 2453. Biocatalysis and Agricultural Biotechnology, 2021, 33, 101964.	1.5	14
34	Nitrogen dependence of rhamnolipid mediated degradation of petroleum crude oil by indigenous Pseudomonas sp. WD23 in seawater. Chemosphere, 2022, 304, 135235.	4.2	14
35	Superparamagnetic spherical magnetite nanoparticles: synthesis, characterization and catalytic potential. Applied Nanoscience (Switzerland), 2023, 13, 6003-6014.	1.6	13
36	Photocatalytic degradation of methylene blue dye using newly synthesized zirconia nanoparticles. Environmental Research, 2022, 214, 113785.	3.7	13

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37	Partitioning of thermostable glucoamylase in polyethyleneglycol/salt aqueous two-phase system. Bioresources and Bioprocessing, 2015, 2, .	2.0	11
38	Sequential Statistical Optimization of Media Components for the Production of Glucoamylase by Thermophilic Fungus Humicola grisea MTCC 352. Enzyme Research, 2014, 2014, 1-9.	1.8	6
39	Optimization of Glucoamylase Production by Humicola grisea MTCC 352 in Solid State Fermentation. Chiang Mai University Journal of Natural Sciences, 2019, 18, .	0.1	1
40	Prediction of Viscosities of Aqueous Two Phase Systems Containing Protein by Artificial Neural Network. Journal of Chemical Engineering & Process Technology, 2014, 05, .	0.1	0