

N Vasimalai

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

605
citations

623734

14
h-index

610901

24
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all docs

24
docs citations

24
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Study of Tubular Solar Stills with Phase Change Material and Nano-Enhanced Phase Change Material. <i>Energies</i> , 2020, 13, 3989.	3.1	68
2	Picomolar melamine enhanced the fluorescence of gold nanoparticles: Spectrofluorimetric determination of melamine in milk and infant formulas using functionalized triazole capped goldnanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 42, 267-272.	10.1	62
3	Ultrasensitive fluorescence-quenched chemosensor for Hg(II) in aqueous solution based on mercaptothiadiazole capped silver nanoparticles. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 193-199.	12.4	59
4	Reductive degradation of toxic six dyes in industrial wastewater using diaminobenzoic acid capped silver nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104225.	6.7	47
5	Aggregation and de-aggregation of gold nanoparticles induced by polyionic drugs: spectrofluorimetric determination of picogram amounts of protamine and heparin drugs in the presence of 1000-fold concentration of major interferences. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5620.	5.8	43
6	Biopolymer capped silver nanoparticles as fluorophore for ultrasensitive and selective determination of malathion. <i>Talanta</i> , 2013, 115, 24-31.	5.5	42
7	Micromolar Hg(ii) induced the morphology of gold nanoparticles: a novel luminescent sensor for femtomolar Hg(ii) using triazole capped gold nanoparticles as a fluorophore. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4475.	10.3	35
8	One-pot green route synthesis of silver nanoparticles from jack fruit seeds and their antibacterial activities with escherichia coli and salmonella bacteria. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101241.	3.1	32
9	Ultrasensitive and selective spectrofluorimetric determination of Hg(II) using a dimercaptothiadiazole fluorophore. <i>Journal of Luminescence</i> , 2011, 131, 2636-2641.	3.1	28
10	Mercaptothiadiazole capped gold nanoparticles as fluorophore for the determination of nanomolar mercury(ii) in aqueous solution in the presence of 50%000-fold major interferents. <i>Analyst, The</i> , 2012, 137, 3349.	3.5	28
11	Green synthesis of silver nanoparticles from plant latex and their antibacterial and photocatalytic studies. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 3064-3074.	2.2	19
12	Spectrofluorimetric determination of picogram level Pb(II) using a dimercaptothiadiazole fluorophore. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 82, 153-158.	3.9	18
13	Reductive photocatalytic degradation of toxic aniline blue dye using green synthesized banyan aerial root extract derived silver nanoparticles. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 36, 102140.	3.1	16
14	Fabrication and structural properties of flower-like TiO2 nanorod array films grown on glass substrate without FTO layer. <i>Materials Letters</i> , 2020, 273, 127902.	2.6	15
15	Heterojunction of SnO2 nanosheet/arrayed ZnO nanorods for humidity sensing. <i>Materials Chemistry and Physics</i> , 2022, 288, 126436.	4.0	15
16	Off-on and on-off chemosensors for ultratrace mercury(II) and copper(II) using functionalized thiazole and cadmium sulfide nanoparticles fluorophores. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 800-808.	7.8	14
17	Fabrication, structural, optical, electrical, and humidity sensing characteristics of hierarchical NiO nanosheet/nanoball-flower-like structure films. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11673-11687.	2.2	13
18	Annealing temperature dependency of structural, optical and electrical characteristics of manganese-doped nickel oxide nanosheet array films for humidity sensing applications. <i>Nanomaterials and Nanotechnology</i> , 2021, 11, 184798042098278.	3.0	12

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19	Effective Multi Toxic Dyes Degradation Using Bio-Fabricated Silver Nanoparticles as a Green Catalyst. Applied Biochemistry and Biotechnology, 2023, 195, 3872-3887.	2.9	10
20	Protein protected gold nanoparticles as a fluorophore for the highly selective and ultrasensitive determination of bisphenol A in plastic samples. Analytical Methods, 2013, 5, 5515.	2.7	8
21	Economically viable sensitive and selective luminescent sensor for the determination of Au(III) in environmental samples. RSC Advances, 2014, 4, 38812-38819.	3.6	7
22	Preparation of a portable calorimetry kit and one-step spectrophotometric nanomolar level detection of l-Histidine in serum and urine samples using sebacic acid capped silver nanoparticles. Journal of Science: Advanced Materials and Devices, 2021, 6, 100-107.	3.1	7
23	A turn-on highly selective and ultrasensitive determination of copper (II) in an aqueous medium using folic acid capped gold nanoparticles as the probe. Nanotechnology, 2013, 24, 505503.	2.6	6
24	Humidity Sensing Performance of V: TiO ₂ 3D Nanostructure-based Humidity Sensor. IOP Conference Series: Earth and Environmental Science, 2021, 682, 012073.	0.3	1