

Vaibhavkumar Mehta

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,863
citations

331259

21
h-index

642321

23
g-index

31
all docs

31
docs citations

31
times ranked

2195
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step hydrothermal approach to fabricate carbon dots from apple juice for imaging of mycobacterium and fungal cells. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 434-443.	4.0	394
2	One-pot green synthesis of carbon dots by using <i>Saccharum officinarum</i> juice for fluorescent imaging of bacteria (<i>Escherichia coli</i>) and yeast (<i>Saccharomyces cerevisiae</i>) cells. <i>Materials Science and Engineering C</i> , 2014, 38, 20-27.	3.8	342
3	Preparation of multicolor emitting carbon dots for HeLa cell imaging. <i>New Journal of Chemistry</i> , 2014, 38, 6152-6160.	1.4	215
4	Bifunctionalization of silver nanoparticles with 6-mercaptopyridine and melamine for simultaneous colorimetric sensing of Cr ³⁺ and Ba ²⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 562-571.	4.0	73
5	Colorimetric Detection of Copper in Water Samples Using Dopamine Dithiocarbamate-Functionalized Au Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4414-4420.	1.8	70
6	Green Synthetic Approach for Synthesis of Fluorescent Carbon Dots for Lisinopril Drug Delivery System and their Confirmations in the Cells. <i>Journal of Fluorescence</i> , 2017, 27, 111-124.	1.3	70
7	Simple and sensitive colorimetric sensing of Cd ²⁺ ion using chitosan dithiocarbamate functionalized gold nanoparticles as a probe. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 850-858.	4.0	63
8	Citrate-modified silver nanoparticles as a colorimetric probe for simultaneous detection of four triptan-family drugs. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 254-263.	4.0	62
9	Recent developments on fluorescent hybrid nanomaterials for metal ions sensing and bioimaging applications: A review. <i>Journal of Molecular Liquids</i> , 2021, 333, 115950.	2.3	60
10	Dopamine dithiocarbamate functionalized silver nanoparticles as colorimetric sensors for the detection of cobalt ion. <i>Analytical Methods</i> , 2013, 5, 1818.	1.3	59
11	Sensitive and selective colorimetric sensing of Fe ³⁺ ion by using p-amino salicylic acid dithiocarbamate functionalized gold nanoparticles. <i>New Journal of Chemistry</i> , 2014, 38, 1503-1511.	1.4	59
12	Influence of ligand chemistry on silver nanoparticles for colorimetric detection of Cr ³⁺ and Hg ²⁺ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 120-127.	2.0	53
13	Selective visual detection of Pb(II) ion via gold nanoparticles coated with a dithiocarbamate-modified 4-aminobenzo-18-crown-6. <i>Mikrochimica Acta</i> , 2014, 181, 1905-1915.	2.5	47
14	Functionalization of silver nanoparticles with 5-sulfoanthranilic acid dithiocarbamate for selective colorimetric detection of Mn ²⁺ and Cd ²⁺ ions. <i>New Journal of Chemistry</i> , 2016, 40, 4566-4574.	1.4	44
15	An overview of molecular biology and nanotechnology based analytical methods for the detection of SARS-CoV-2: promising biotools for the rapid diagnosis of COVID-19. <i>Analyst</i> , 2021, 146, 1489-1513.	1.7	42
16	Malonamide dithiocarbamate functionalized gold nanoparticles for colorimetric sensing of Cu ²⁺ and Hg ²⁺ ions. <i>RSC Advances</i> , 2015, 5, 4245-4255.	1.7	39
17	Ligand chemistry of gold, silver and copper nanoparticles for visual read-out assay of pesticides: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 153, 116607.	5.8	36
18	4-Aminothiophenol functionalized gold nanoparticles as colorimetric sensors for the detection of cobalt using UV-Visible spectrometry. <i>Research on Chemical Intermediates</i> , 2013, 39, 771-779.	1.3	34

#	ARTICLE	IF	CITATIONS
19	Recent developments of liquid-phase microextraction techniques directly combined with ESI- and MALDI-mass spectrometric techniques for organic and biomolecule assays. RSC Advances, 2014, 4, 16188.	1.7	30
20	A molecular assembly of piperidine carboxylic acid dithiocarbamate on gold nanoparticles for the selective and sensitive detection of Al ³⁺ ion in water samples. RSC Advances, 2015, 5, 33468-33477.	1.7	23
21	Diaminodiphenyl sulfone as a novel ligand for synthesis of gold nanoparticles for simultaneous colorimetric assay of three trivalent metal cations (Al ³⁺ , Fe ³⁺ and Cr ³⁺). Journal of Molecular Liquids, 2020, 312, 113409.	2.3	22
22	Surface Modified Quantum Dots as Fluorescent Probes for Biomolecule Recognition. Journal of Nanoscience and Nanotechnology, 2014, 14, 447-459.	0.9	19
23	Applications of carbon dots in biosensing and cellular imaging. , 2016, , 339-364.		4
24	Bio-functionalized Silver Nanoparticles: A Versatile Candidate for the Ceramic Industry. , 2021, , 83-98.		2
25	Recent advances in the direct and nanomaterials-based matrix-assisted laser desorption/ionization mass spectrometric approaches for rapid characterization and identification of foodborne pathogens. , 2017, , 449-485.		0
26	Bio-functionalized Silver Nanoparticles: A Versatile Candidate for the Ceramic Industry. , 2021, , 1-17.		0