

Kamlesh Shrivastava

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,617
citations

126907

33
h-index

223800

46
g-index

89
all docs

89
docs citations

89
times ranked

2470
citing authors

#	ARTICLE	IF	CITATIONS
1	Citrate functionalized gold nanoparticles assisted micro extraction of L-cysteine in milk and water samples using Fourier transform infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120523.	3.9	11
2	Interaction of an imidazolium based ionic liquid with antidepressant drugs: A physicochemical study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 636, 128159.	4.7	7
3	Copper nanoparticle-based sensors for environmental pollutions. , 2022, , 751-774.		0
4	A graphene-printed paper electrode for determination of H ₂ O ₂ in municipal wastewater during the COVID-19 pandemic. <i>New Journal of Chemistry</i> , 2022, 46, 1362-1370.	2.8	7
5	Simultaneous determination of B1, B3, B6 and C vitamins in green leafy vegetables using reverse phase-high performance liquid chromatography. <i>Microchemical Journal</i> , 2022, 176, 107249.	4.5	5
6	Design and development of conductive nanomaterials for electrochemical sensors: a modern approach. <i>Materials Today Chemistry</i> , 2022, 24, 100769.	3.5	22
7	Smartphone-integrated printed-paper sensor designed for on-site determination of dimethoate pesticide in food samples. <i>Food Chemistry</i> , 2022, 383, 132449.	8.2	20
8	Analytical approaches on some selected toxic heavy metals in the environment and their socio-environmental impacts: A meticulous review. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100545.	2.8	10
9	Experimental and theoretical investigations for selective colorimetric recognition and determination of arginine and histidine in vegetable and fruit samples using bare-AgNPs. <i>Microchemical Journal</i> , 2021, 160, 105597.	4.5	8
10	Colorimetric determination of L-cysteine in milk samples with surface functionalized silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 118961.	3.9	27
11	Temperature-programmed nitridation of monodispersed VO _x nanoparticles into nanocrystalline superconducting oxygen-doped vanadium nitride. <i>New Journal of Chemistry</i> , 2021, 45, 6129-6135.	2.8	3
12	A simple and cost-effective paper-based and colorimetric dual-mode detection of arsenic(III) and lead(II) based on glucose-functionalized gold nanoparticles. <i>RSC Advances</i> , 2021, 11, 20769-20780.	3.6	16
13	Application of silver nanoparticles as a chemical sensor for detection of pesticides and metal ions in environmental samples. , 2021, , 429-452.		4
14	Application of nanoparticles as a chemical sensor for analysis of environmental samples. , 2021, , 257-277.		0
15	Inkjet-printed paper-based electrochemical sensor with gold nano-ink for detection of glucose in blood serum. <i>New Journal of Chemistry</i> , 2021, 45, 8297-8305.	2.8	22
16	Inkjet-printed paper-based colorimetric sensor coupled with smartphone for determination of mercury (Hg ²⁺). <i>Journal of Hazardous Materials</i> , 2021, 414, 125440.	12.4	77
17	Recent development in nanomaterials fabricated paper-based colorimetric and fluorescent sensors: A review. <i>Trends in Environmental Analytical Chemistry</i> , 2021, 31, e00136.	10.3	45
18	Molecular interactions between novel synthesized biodegradable ionic liquids with antidepressant drug. <i>Chemical Thermodynamics and Thermal Analysis</i> , 2021, 3-4, 100012.	1.5	7

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19	Application of silver nanoparticles as a new alternative antiviral agent for SARS-CoV-2: A Review. <i>Current Nanoscience</i> , 2021, 17, .	1.2	2
20	Development of nanomaterials-fabricated paper-based sensors for the analysis of environmental and biological samples: A Review. <i>Current Nanoscience</i> , 2021, 17, .	1.2	1
21	Interaction of synthesized nitrogen enriched graphene quantum dots with novel anti-Alzheimer's™s drugs: spectroscopic insights. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1-16.	3.5	12
22	Smartphone coupled with paper-based chemical sensor for on-site determination of iron(III) in environmental and biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1573-1583.	3.7	47
23	Inclusion complexation of novel synthesis amino acid based ionic liquids with β -cyclodextrin. <i>Journal of Molecular Liquids</i> , 2020, 299, 112204.	4.9	10
24	A low-cost paper-based flexible energy storage device using a conducting polymer nanocomposite. <i>New Journal of Chemistry</i> , 2020, 44, 13446-13457.	2.8	9
25	Novel formation of Au/Ag bimetallic nanoparticles from a mixture of monometallic nanoparticles and their application for the rapid detection of lead in onion samples. <i>New Journal of Chemistry</i> , 2020, 44, 15010-15017.	2.8	14
26	Food safety monitoring of the pesticide phenthoate using a smartphone-assisted paper-based sensor with bimetallic Cu@Ag core-shell nanoparticles. <i>Lab on A Chip</i> , 2020, 20, 3996-4006.	6.0	42
27	Thermodynamic investigation of the interaction between ionic liquid functionalized gold nanoparticles and human serum albumin for selective determination of glutamine. <i>RSC Advances</i> , 2020, 10, 31400-31410.	3.6	9
28	Multi-spectroscopic monitoring of molecular interactions between an amino acid-functionalized ionic liquid and potential anti-Alzheimer's drugs. <i>RSC Advances</i> , 2020, 10, 38873-38883.	3.6	8
29	Advances in flexible electronics and electrochemical sensors using conducting nanomaterials: A review. <i>Microchemical Journal</i> , 2020, 156, 104944.	4.5	45
30	Exploring spectroscopic insights into molecular recognition of potential anti-Alzheimer's drugs within the hydrophobic pockets of β -cycloamylose. <i>Journal of Molecular Liquids</i> , 2020, 311, 113269.	4.9	4
31	An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes. <i>Journal of Molecular Liquids</i> , 2020, 305, 112857.	4.9	10
32	CdTe QD-based inhibition and reactivation assay of acetylcholinesterase for the detection of organophosphorus pesticides. <i>RSC Advances</i> , 2020, 10, 24190-24202.	3.6	40
33	Flexible printed paper electrode with silver nano-ink for electrochemical applications. <i>Microchemical Journal</i> , 2020, 155, 104687.	4.5	24
34	L-cysteine modified silver nanoparticles for selective and sensitive colorimetric detection of vitamin B1 in food and water samples. <i>Heliyon</i> , 2020, 6, e03423.	3.2	35
35	Colorimetric and smartphone-integrated paper device for on-site determination of arsenic (III) using sucrose modified gold nanoparticles as a nanoprobe. <i>Mikrochimica Acta</i> , 2020, 187, 173.	5.0	46
36	A KBr-impregnated paper substrate as a sample probe for the enhanced ATR-FTIR signal strength of anionic and non-ionic surfactants in an aqueous medium. <i>RSC Advances</i> , 2020, 10, 40428-40441.	3.6	7

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37	A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk. <i>Food Chemistry</i> , 2019, 270, 459-466.	8.2	32
38	Colorimetric and paper-based detection of lead using PVA capped silver nanoparticles: Experimental and theoretical approach. <i>Microchemical Journal</i> , 2019, 150, 104156.	4.5	71
39	Citrate-capped gold nanoparticles as a sensing probe for determination of cetyltrimethylammonium surfactant using FTIR spectroscopy and colorimetry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6943-6957.	3.7	26
40	Application of functionalized silver nanoparticles as a biochemical sensor for selective detection of lysozyme protein in milk sample. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 213, 127-133.	3.9	21
41	The direct-writing of low cost paper based flexible electrodes and touch pad devices using silver nano-ink and ZnO nanoparticles. <i>RSC Advances</i> , 2019, 9, 17868-17876.	3.6	9
42	Surface enhanced infra-red spectroscopy with modified silver nanoparticles (AgNPs) for detection of quaternary ammonium cationic surfactants. <i>New Journal of Chemistry</i> , 2019, 43, 8109-8121.	2.8	28
43	A carbon quantum dot-gold nanoparticle system as a probe for the inhibition and reactivation of acetylcholinesterase: detection of pesticides. <i>New Journal of Chemistry</i> , 2019, 43, 6874-6882.	2.8	45
44	Silver nanoparticles for selective detection of phosphorus pesticide containing π -conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions. <i>Journal of Molecular Liquids</i> , 2019, 275, 297-303.	4.9	37
45	Analytical approach on surface active agents in the environment and challenges. <i>Trends in Environmental Analytical Chemistry</i> , 2019, 21, e00061.	10.3	30
46	Spectroscopic studies on in vitro molecular interaction of highly fluorescent carbon dots with different serum albumins. <i>Journal of Molecular Liquids</i> , 2018, 255, 279-287.	4.9	24
47	Self-aggregation of bio-surfactants within ionic liquid 1-ethyl-3-methylimidazolium bromide: A comparative study and potential application in antidepressants drug aggregation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 376-386.	3.9	24
48	Gold nanoprobe for inhibition and reactivation of acetylcholinesterase: An application to detection of organophosphorus pesticides. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 155-164.	7.8	57
49	Methyl Orange Paired Microextraction and Diffuse Reflectance-Fourier Transform Infrared Spectral Monitoring for Improved Signal Strength of Total Mixed Cationic Surfactants. <i>Journal of Surfactants and Detergents</i> , 2018, 21, 197-208.	2.1	14
50	Sucrose capped gold nanoparticles as a plasmonic chemical sensor based on non-covalent interactions: Application for selective detection of vitamins B1 and B6 in brown and white rice food samples. <i>Food Chemistry</i> , 2018, 250, 14-21.	8.2	42
51	A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H_2O_2 . <i>Analytical Methods</i> , 2018, 10, 3248-3255.	2.7	15
52	Experimental and theoretical approaches for the selective detection of thymine in real samples using gold nanoparticles as a biochemical sensor. <i>RSC Advances</i> , 2018, 8, 24328-24337.	3.6	15
53	Host-guest complexation of ionic liquid with β - and γ -cyclodextrins: a comparative study by 1H -NMR, ^{13}C -NMR and COSY. <i>New Journal of Chemistry</i> , 2018, 42, 14542-14550.	2.8	11
54	Mn ²⁺ doped-CdTe/ZnS modified fluorescence nanosensor for detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 196-204.	7.8	37

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55	Low-Cost Paper Electrode Fabricated by Direct Writing with Silver Nanoparticle-Based Ink for Detection of Hydrogen Peroxide in Wastewater. <i>Analytical Chemistry</i> , 2017, 89, 776-782.	6.5	52
56	Label-free selective detection of ampicillin drug in human urine samples using silver nanoparticles as a colorimetric sensing probe. <i>New Journal of Chemistry</i> , 2017, 41, 6685-6692.	2.8	56
57	Removal of endrin and dieldrin isomeric pesticides through stereoselective adsorption behavior on the graphene oxide-magnetic nanoparticles. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24980-24988.	5.3	47
58	Onsite-detection of barium and nickel from river, pond and tap water samples using gold nanoparticles as a chemical sensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 630-636.	3.9	34
59	Direct-Writing of Paper Based Conductive Track using Silver Nano-ink for Electroanalytical Application. <i>Electrochimica Acta</i> , 2016, 209, 511-520.	5.2	42
60	Application of silver nanoparticles for a highly selective colorimetric assay of endrin in water and food samples based on stereoselective endo-recognition. <i>RSC Advances</i> , 2016, 6, 29855-29862.	3.6	30
61	Enhancement of plasmonic resonance through an exchange reaction on the surface of silver nanoparticles: application to the highly selective detection of triazophos pesticide in food and vegetable samples. <i>RSC Advances</i> , 2016, 6, 80739-80747.	3.6	24
62	Interaction of bovine serum albumin with cationic monomeric and dimeric surfactants: A comparative study. <i>Journal of Molecular Liquids</i> , 2016, 218, 421-428.	4.9	34
63	Localized surface plasmon resonance of silver nanoparticles for sensitive colorimetric detection of chromium in surface water, industrial waste water and vegetable samples. <i>Analytical Methods</i> , 2016, 8, 2088-2096.	2.7	57
64	Gold nanoparticles-based colorimetric determination of cationic surfactants in environmental water samples via both electrostatic and hydrophobic interactions. <i>Mikrochimica Acta</i> , 2016, 183, 827-836.	5.0	28
65	Surfactant-based dispersive liquid-liquid microextraction for the determination of zinc in environmental water samples using flame atomic absorption spectrometry. <i>Analytical Methods</i> , 2016, 8, 5519-5525.	2.7	14
66	Ionic liquid matrix-based dispersive liquid-liquid microextraction for enhanced MALDI-MS analysis of phospholipids in soybean. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1001, 124-130.	2.3	18
67	Gold nanoparticles as a localized surface plasmon resonance based chemical sensor for on-site colorimetric detection of arsenic in water samples. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1376-1383.	7.8	116
68	Surfactant-Assisted Dispersive Liquid-Liquid Microextraction for Sensitive Spectrophotometric Determination of Iron in Food and Water Samples and Comparison with Atomic Absorption Spectrometry. <i>Journal of Surfactants and Detergents</i> , 2015, 18, 1137-1144.	2.1	8
69	Physicochemical Properties and Supernucleophilicity of Oxime-Functionalized Surfactants: Hydrolytic Catalysts toward Dephosphorylation of Di- and Triphosphate Esters. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3806-3817.	2.6	35
70	Dispersive liquid-liquid microextraction for the determination of copper in cereals and vegetable food samples using flame atomic absorption spectrometry. <i>Food Chemistry</i> , 2013, 141, 2263-2268.	8.2	57
71	Activity, stability and kinetic parameters for \pm -chymotrypsin catalysed reactions in AOT/isooctane reverse micelles with nonionic and zwitterionic mixed surfactants. <i>Journal of Chemical Sciences</i> , 2013, 125, 875-882.	1.5	14
72	Rapid and highly sensitive protein extraction via cobalt oxide nanoparticle-based liquid-liquid microextraction coupled with MALDI mass spectrometry. <i>Analyst</i> , 2012, 137, 890-895.	3.5	22

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73	Application of platinum nanoparticles as affinity probe and matrix for direct analysis of small biomolecules and microwave digested proteins using matrix-assisted laser desorption/ionization mass spectrometry. <i>Analyst</i> , The, 2011, 136, 2852.	3.5	39
74	Nucleophilic Attack of Salicylhydroxamate Ion at C=O and P=O Centers in Cationic Micellar Media. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16759-16765.	2.6	25
75	Multifunctional nanoparticles composite for MALDI-MS: Cd ²⁺ -doped carbon nanotubes with CdS nanoparticles as the matrix, preconcentrating and accelerating probes of microwave enzymatic digestion of peptides and proteins for direct MALDI-MS analysis. <i>Journal of Mass Spectrometry</i> , 2010, 45, 1452-1460.	1.6	68
76	Quantum dots laser desorption/ionization MS: multifunctional CdSe quantum dots as the matrix, concentrating probes and acceleration for microwave enzymatic digestion for peptide analysis and high resolution detection of proteins in a linear MALDI-TOF MS. <i>Proteomics</i> , 2009, 9, 2656-2667.	2.2	74
77	Trace level determination of molybdenum in environmental and biological samples using surfactant-mediated liquid-liquid extraction. <i>Journal of Hazardous Materials</i> , 2009, 161, 325-329.	12.4	27
78	Applications of silver nanoparticles capped with different functional groups as the matrix and affinity probes in surface-assisted laser desorption/ionization time-of-flight and atmospheric pressure matrix-assisted laser desorption/ionization ion trap mass spectrometry for rapid analysis of sulfur drugs and biothiols in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2863-2872.	1.5	86
79	Ultrasonication followed by single-drop microextraction combined with GC/MS for rapid determination of organochlorine pesticides from fish. <i>Journal of Separation Science</i> , 2008, 31, 380-386.	2.5	45
80	Functionalized multiwalled carbon nanotubes as a preconcentrating probe for rapid monitoring of cationic dyestuffs in environmental water using AP-MALDI/MS. <i>Journal of Separation Science</i> , 2008, 31, 3603-3611.	2.5	10
81	Oxidized multiwalled carbon nanotubes for quantitative determination of cationic surfactants in water samples using atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2008, 628, 198-203.	5.4	32
82	Modified Silver Nanoparticle as a Hydrophobic Affinity Probe for Analysis of Peptides and Proteins in Biological Samples by Using Liquid-Liquid Microextraction Coupled to AP-MALDI-Ion Trap and MALDI-TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 2583-2589.	6.5	93
83	A rapid, sensitive and effective quantitative method for simultaneous determination of cationic surfactant mixtures from river and municipal wastewater by direct combination of single-drop microextraction with AP-MALDI mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1637-1644.	1.6	56
84	Rapid determination of caffeine in one drop of beverages and foods using drop-to-drop solvent microextraction with gas chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1170, 9-14.	3.7	89
85	Quantitative bioanalysis of quinine by atmospheric pressure-matrix assisted laser desorption/ionization mass spectrometry combined with dynamic drop-to-drop solvent microextraction. <i>Analytica Chimica Acta</i> , 2007, 605, 153-158.	5.4	38
86	Single drop microextraction as a concentrating probe for rapid screening of low molecular weight drugs from human urine in atmospheric-pressure matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3103-3108.	1.5	36
87	On-Site Determination of Arsenic in Contaminated Water#. <i>Analytical Letters</i> , 2004, 37, 333-344.	1.8	17