

Suresh Kumar Kailasa

List of Publications by Citations

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196
papers

6,302
citations

43
h-index

68
g-index

203
ext. papers

7,594
ext. citations

5.9
avg, IF

6.73
L-index

#	Paper	IF	Citations
196	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	8.5	305
195	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, 20-7	8.3	265
194	Review of nanomaterials as sorbents in solid-phase extraction for environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 108, 347-369	14.6	176
193	Preparation of multicolor emitting carbon dots for HeLa cell imaging. <i>New Journal of Chemistry</i> , 2014 , 38, 6152-6160	3.6	173
192	Recent progress on surface chemistry of plasmonic metal nanoparticles for colorimetric assay of drugs in pharmaceutical and biological samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 106-120	14.6	121
191	Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 205-222	11.8	112
190	Phytochemical-assisted synthetic approaches for silver nanoparticles antimicrobial applications: A review. <i>Advances in Colloid and Interface Science</i> , 2018 , 256, 326-339	14.3	111
189	Nanomaterial-based electrochemical sensors for arsenic - A review. <i>Biosensors and Bioelectronics</i> , 2017 , 95, 106-116	11.8	109
188	Imaging of Bacterial and Fungal Cells Using Fluorescent Carbon Dots Prepared from <i>Carica papaya</i> Juice. <i>Journal of Fluorescence</i> , 2015 , 25, 803-10	2.4	109
187	Tuning of carbon dots emission color for sensing of Fe ion and bioimaging applications. <i>Materials Science and Engineering C</i> , 2019 , 98, 834-842	8.3	105
186	Comparison of ZnS semiconductor nanoparticles capped with various functional groups as the matrix and affinity probes for rapid analysis of cyclodextrins and proteins in surface-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 9681-8	7.8	100
185	A critical review of ferrate(VI)-based remediation of soil and groundwater. <i>Environmental Research</i> , 2018 , 160, 420-448	7.9	91
184	Synthesis of fluorescent nitrogen-doped carbon dots from dried shrimps for cell imaging and boldine drug delivery system. <i>RSC Advances</i> , 2016 , 6, 12169-12179	3.7	89
183	Cu-nanoflower decorated gold nanoparticles-graphene oxide nanofiber as electrochemical biosensor for glucose detection. <i>Materials Science and Engineering C</i> , 2020 , 107, 110273	8.3	89
182	One-step synthesis of fluorescent carbon dots for imaging bacterial and fungal cells. <i>Analytical Methods</i> , 2015 , 7, 2373-2378	3.2	88
181	One-step green synthetic approach for the preparation of multicolor emitting copper nanoclusters and their applications in chemical species sensing and bioimaging. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 243-248	11.8	84
180	Visual detection of arginine, histidine and lysine using quercetin-functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , 2014 , 181, 1917-1929	5.8	82

179	Fluorescence sensing of Cu ²⁺ ion and imaging of fungal cell by ultra-small fluorescent carbon dots derived from Acacia concinna seeds. <i>Sensors and Actuators B: Chemical</i> , 2018 , 277, 47-54	8.5	76
178	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018 , 187, 131-147.	6.3	75
177	Recognition of carbendazim fungicide in environmental samples by using 4-aminobenzenethiol functionalized silver nanoparticles as a colorimetric sensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 684-691	8.5	73
176	One-pot synthesis of dopamine dithiocarbamate functionalized gold nanoparticles for quantitative analysis of small molecules and phosphopeptides in SALDI- and MALDI-MS. <i>Analyst, The</i> , 2012 , 137, 1629-1638	5.38	73
175	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, 2656-67	4.8	71
174	Green synthesis of multi-color emissive carbon dots from Manilkara zapota Fruits for bioimaging of bacterial and fungal cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 191, 150-155	6.7	71
173	Carbon dots as versatile nanoarchitectures for the treatment of neurological disorders and their theranostic applications: A review. <i>Advances in Colloid and Interface Science</i> , 2020 , 278, 102123	14.3	68
172	Bifunctionalization of silver nanoparticles with 6-mercaptopurinic acid and melamine for simultaneous colorimetric sensing of Cr ³⁺ and Ba ²⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 562-571	8.5	63
171	Colorimetric Detection of Copper in Water Samples Using Dopamine Dithiocarbamate-Functionalized Au Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4414-4420	3.9	62
170	Influence of molecular assembly and NaCl concentration on gold nanoparticles for colorimetric detection of cysteine and glutathione. <i>Sensors and Actuators B: Chemical</i> , 2015 , 212, 526-535	8.5	58
169	Facile green synthesis of carbon dots from Pyrus pyrifolia fruit for assaying of Al ³⁺ ion via chelation enhanced fluorescence mechanism. <i>Journal of Molecular Liquids</i> , 2018 , 264, 9-16	6	57
168	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	8.5	57
167	Dopamine dithiocarbamate functionalized silver nanoparticles as colorimetric sensors for the detection of cobalt ion. <i>Analytical Methods</i> , 2013 , 5, 1818	3.2	55
166	Microwave assisted synthesis of tyrosine protected gold nanoparticles for dual (colorimetric and fluorimetric) detection of spermine and spermidine in biological samples. <i>Biosensors and Bioelectronics</i> , 2017 , 88, 71-77	11.8	54
165	Nanomaterial-based miniaturized extraction and preconcentration techniques coupled to matrix-assisted laser desorption/ionization mass spectrometry for assaying biomolecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 65, 54-72	14.6	52
164	Surface modification of silver nanoparticles with dopamine dithiocarbamate for selective colorimetric sensing of mancozeb in environmental samples. <i>Sensors and Actuators B: Chemical</i> , 2014 , 200, 219-226	8.5	52
163	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	8.5	51
162	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	2.4	51

161	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	3.6	50
160	Development of a rapid and sensitive electrochemical biosensor for detection of human norovirus via novel specific binding peptides. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 223-229	11.8	48
159	Ultra-small two dimensional MXene nanosheets for selective and sensitive fluorescence detection of Ag ⁺ and Mn ²⁺ ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 565, 70-77	5.1	48
158	4-Amino nicotinic acid mediated synthesis of gold nanoparticles for visual detection of arginine, histidine, methionine and tryptophan. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 780-789	8.5	47
157	Synthesis of fluorescent carbon dots using <i>Daucus carota</i> subsp. <i>sativus</i> roots for mitomycin drug delivery. <i>Optik</i> , 2018 , 158, 893-900	2.5	46
156	5-Sulfo anthranilic acid dithiocarbamate functionalized silver nanoparticles as a colorimetric probe for the simple and selective detection of tricyclazole fungicide in rice samples. <i>Analytical Methods</i> , 2014 , 6, 5934-5941	3.2	45
155	Surface modified silver selenide nanoparticles as extracting probes to improve peptide/protein detection via nanoparticles-based liquid phase microextraction coupled with MALDI mass spectrometry. <i>Talanta</i> , 2010 , 83, 527-34	6.2	45
154	Molecular assembly of 3-mercaptopropionic acid and guanidine acetic acid on silver nanoparticles for selective colorimetric detection of triazophos in water and food samples. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 486-495	8.5	44
153	Trypsin mediated one-pot reaction for the synthesis of red fluorescent gold nanoclusters: Sensing of multiple analytes (carbidopa, dopamine, Cu, Co and Hg ions). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 215, 209-217	4.4	43
152	Cyclen dithiocarbamate-functionalized silver nanoparticles as a probe for colorimetric sensing of thiram and paraquat pesticides via host-guest chemistry. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	43
151	Amylase protected gold nanoclusters as chemo- and bio- sensor for nanomolar detection of deltamethrin and glutathione. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 812-820	8.5	43
150	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	5.8	42
149	Ascorbic acid functionalized gold nanoparticles as a probe for colorimetric and visual read-out determination of dichlorvos in environmental samples. <i>Analytical Methods</i> , 2014 , 6, 9007-9014	3.2	41
148	Surface modified BaTiO ₃ nanoparticles as the matrix for phospholipids and as extracting probes for LLME of hydrophobic proteins in <i>Escherichia coli</i> by MALDI-MS. <i>Talanta</i> , 2013 , 114, 283-90	6.2	41
147	Microwave-assisted synthesis of water-soluble Eu ³⁺ hybrid carbon dots with enhanced fluorescence for the sensing of Hg ²⁺ ions and imaging of fungal cells. <i>New Journal of Chemistry</i> , 2018 , 42, 6125-6133	3.6	40
146	Drug-Induced Micelle-to-Vesicle Transition of a Cationic Gemini Surfactant: Potential Applications in Drug Delivery. <i>ChemPhysChem</i> , 2018 , 19, 865-872	3.2	40
145	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	3.6	40
144	Nanoparticle-single drop microextraction as multifunctional and sensitive nanoprobe: Binary matrix approach for gold nanoparticles modified with (4-mercaptophenyliminomethyl)-2-methoxyphenol for peptide and protein analysis in MALDI-TOF MS. <i>Talanta</i> , 2010 , 81, 1176-82	6.2	40

143	Multifunctional ZrO(2) nanoparticles and ZrO(2)-SiO (2) nanorods for improved MALDI-MS analysis of cyclodextrins, peptides, and phosphoproteins. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1115-25	4.4	40
142	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120, 115646	14.6	39
141	Dispersive liquid-liquid microextraction using functionalized Mg(OH) ₂ NPs with oleic acid as hydrophobic affinity probes for the analysis of hydrophobic proteins in bacteria by MALDI MS. <i>Analyst, The</i> , 2012 , 137, 4490-6	5	37
140	High resolution detection of high mass proteins up to 80,000 Da via multifunctional CdS quantum dots in laser desorption/ionization mass spectrometry. <i>Talanta</i> , 2010 , 83, 178-84	6.2	37
139	Critical role of water stability in metal-organic frameworks and advanced modification strategies for the extension of their applicability. <i>Environmental Science: Nano</i> , 2020 , 7, 1319-1347	7.1	36
138	Influence of ligand chemistry on silver nanoparticles for colorimetric detection of Cr and Hg ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 195, 120-127	4.4	36
137	Synthesis of fluorescent silicon quantum dots for ultra-rapid and selective sensing of Cr(VI) ion and biomonitoring of cancer cells. <i>Materials Science and Engineering C</i> , 2018 , 93, 429-436	8.3	35
136	One-step eco-friendly approach for the fabrication of synergistically engineered fluorescent copper nanoclusters: sensing of Hg ²⁺ ion and cellular uptake and bioimaging properties. <i>New Journal of Chemistry</i> , 2018 , 42, 1510-1520	3.6	35
135	Fluorescence turn-off detection of spermine in biofluids using pepsin mediated synthesis of gold nanoclusters as a probe. <i>Journal of Molecular Liquids</i> , 2019 , 280, 18-24	6	34
134	Tuning of gold nanoclusters sensing applications with bovine serum albumin and bromelain for detection of Hg ion and lambda-cyhalothrin via fluorescence turn-off and on mechanisms. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 2781-2791	4.4	34
133	Acid Oxidation of Muskmelon Fruit for the Fabrication of Carbon Dots with Specific Emission Colors for Recognition of Hg Ions and Cell Imaging. <i>ACS Omega</i> , 2019 , 4, 19332-19340	3.9	34
132	Interference free detection for small molecules: probing the Mn ²⁺ -doped effect and cysteine capped effect on the ZnS nanoparticles for coccidiostats and peptide analysis in SALDI-TOF MS. <i>Analyst, The</i> , 2010 , 135, 1115-23	5	34
131	One-pot synthesis of carbon dots with intrinsic folic acid for synergistic imaging-guided photothermal therapy of prostate cancer cells. <i>Biomaterials Science</i> , 2019 , 7, 5187-5196	7.4	34
130	One-pot synthesis of silver nanoparticles using folic acid as a reagent for colorimetric and fluorimetric detections of 6-mercaptopurine at nanomolar concentration. <i>Sensors and Actuators B: Chemical</i> , 2017 , 249, 30-38	8.5	33
129	Dicoumarol assisted synthesis of water dispersible gold nanoparticles for colorimetric sensing of cysteine and lysozyme in biofluids. <i>RSC Advances</i> , 2015 , 5, 39182-39191	3.7	33
128	Malonamide dithiocarbamate functionalized gold nanoparticles for colorimetric sensing of Cu ²⁺ and Hg ²⁺ ions. <i>RSC Advances</i> , 2015 , 5, 4245-4255	3.7	33
127	Recent developments in nanoparticle-based MALDI mass spectrometric analysis of phosphoproteomes. <i>Mikrochimica Acta</i> , 2014 , 181, 853-864	5.8	32
126	Electrospray ionization tandem mass spectrometric studies of copper and iron complexes with tobramycin. <i>International Journal of Mass Spectrometry</i> , 2013 , 338, 23-29	1.9	32

125	Influence of doping ion, capping agent and pH on the fluorescence properties of zinc sulfide quantum dots: Sensing of Cu and Hg ions and their biocompatibility with cancer and fungal cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 210, 212-221	4.4	32
124	Advances in functional nanomaterial-based electrochemical techniques for screening of endocrine disrupting chemicals in various sample matrices. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 113, 256-279	14.6	31
123	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	2.8	31
122	Recent developments of liquid-phase microextraction techniques directly combined with ESI- and MALDI-mass spectrometric techniques for organic and biomolecule assays. <i>RSC Advances</i> , 2014 , 4, 16188	3.7	30
121	Antimicrobial activity of silver nanoparticles		29
120	Development of p-nitroaniline dithiocarbamate capped gold nanoparticles-based microvolume UV-vis spectrometric method for facile and selective detection of quinalphos insecticide in environmental samples. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 826-835	8.5	29
119	Recent developments on fluorescent hybrid nanomaterials for metal ions sensing and bioimaging applications: A review. <i>Journal of Molecular Liquids</i> , 2021 , 333, 115950	6	29
118	Simple and selective detection of pendimethalin herbicide in water and food samples based on the aggregation of ractopamine-dithiocarbamate functionalized gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 541-550	8.5	28
117	Synthesis of Water Dispersible Fluorescent Carbon Nanocrystals from Syzygium cumini Fruits for the Detection of Fe Ion in Water and Biological Samples and Imaging of Fusarium avenaceum Cells. <i>Journal of Fluorescence</i> , 2017 , 27, 125-134	2.4	28
116	Mg ²⁺ ion as a tuner for colorimetric sensing of glyphosate with improved sensitivity via the aggregation of 2-mercapto-5-nitrobenzimidazole capped silver nanoparticles. <i>RSC Advances</i> , 2016 , 6, 47741-47752	3.7	28
115	Synergistic molecular assembly of an aptamer and surfactant on gold nanoparticles for the colorimetric detection of trace levels of As ³⁺ ions in real samples. <i>New Journal of Chemistry</i> , 2018 , 42, 11530-11538	3.6	28
114	Ligand exchange reactions on citrate-gold nanoparticles for a parallel colorimetric assay of six pesticides. <i>New Journal of Chemistry</i> , 2018 , 42, 9080-9090	3.6	27
113	Functionalized quantum dots with dopamine dithiocarbamate as the matrix for the quantification of efavirenz in human plasma and as affinity probes for rapid identification of microwave tryptic digested proteins in MALDI-TOF-MS. <i>Journal of Proteomics</i> , 2012 , 75, 2924-33	3.9	27
112	Colorimetric and fluorescence turn-on methods for the sensitive detection of bromelain using carbon dots functionalized gold nanoparticles as a dual probe. <i>RSC Advances</i> , 2016 , 6, 32025-32036	3.7	26
111	Applications of single-drop microextraction in analytical chemistry: A review. <i>Trends in Environmental Analytical Chemistry</i> , 2021 , 29, e00113	12	26
110	Gold-copper nanoshell dot-blot immunoassay for naked-eye sensitive detection of tuberculosis specific CFP-10 antigen. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 111-117	11.8	26
109	Fluorescent carbon dots derived from vancomycin for flutamide drug delivery and cell imaging. <i>New Journal of Chemistry</i> , 2016 , 40, 7075-7083	3.6	25
108	One-pot synthesis of gold nanoparticles by using 4-aminoantipyrine as a novel reducing and capping agent for simultaneous colorimetric sensing of four triptan-family drugs. <i>Analytical Methods</i> , 2014 , 6, 5972-5980	3.2	25

107	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, The</i> , 2021 , 146, 1489-1513	5.3	25
106	Cysteine-capped ZnSe quantum dots as affinity and accelerating probes for microwave enzymatic digestion of proteins via direct matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2247-52	2.2	23
105	Exploring the ability of water soluble carbon dots as matrix for detecting neurological disorders using MALDI-TOF MS. <i>International Journal of Mass Spectrometry</i> , 2015 , 393, 25-33	1.9	22
104	One pot synthesis of fluorescent gold nanoclusters from Curcuma longa extract for independent detection of Cd ²⁺ , Zn ²⁺ and Cu ²⁺ ions with high sensitivity. <i>Journal of Molecular Liquids</i> , 2020 , 304, 112697	6	22
103	Investigation of silicon doping into carbon dots for improved fluorescence properties for selective detection of Fe ³⁺ ion. <i>Optical Materials</i> , 2019 , 96, 109374	3.3	21
102	Simultaneous colorimetric detection of four drugs in their pharmaceutical formulations using unmodified gold nanoparticles as a probe. <i>RSC Advances</i> , 2015 , 5, 19924-19932	3.7	21
101	A molecular assembly of piperidine carboxylic acid dithiocarbamate on gold nanoparticles for the selective and sensitive detection of Al ³⁺ ion in water samples. <i>RSC Advances</i> , 2015 , 5, 33468-33477	3.7	21
100	Rapid discriminative detection of dengue viruses via loop mediated isothermal amplification. <i>Talanta</i> , 2018 , 190, 391-396	6.2	21
99	Recent progress on solution and materials chemistry for the removal of hydrogen sulfide from various gas plants. <i>Journal of Molecular Liquids</i> , 2020 , 297, 111886	6	21
98	Chicken egg white and L-cysteine as cooperative ligands for effective encapsulation of Zn-doped silver nanoclusters for sensing and imaging applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 559, 35-42	5.1	21
97	Fluorescence detection of Fe ³⁺ ion using ultra-small fluorescent carbon dots derived from pineapple (<i>Ananas comosus</i>): Development of miniaturized analytical method. <i>Journal of Molecular Structure</i> , 2020 , 1216, 128343	3.4	20
96	Semiconductor Nanomaterials-Based Fluorescence Spectroscopic and Matrix-Assisted Laser Desorption/Ionization (MALDI) Mass Spectrometric Approaches to Proteome Analysis. <i>Materials</i> , 2013 , 6, 5763-5795	3.5	20
95	Microchip-Based Capillary Electrophoresis for DNA Analysis in Modern Biotechnology: A Review. <i>Separation and Purification Reviews</i> , 2009 , 38, 242-288	7.3	20
94	Dithiocarbamate-calix[4]arene functionalized gold nanoparticles as a selective and sensitive colorimetric probe for assay of metsulfuron-methyl herbicide via non-covalent interactions. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 1044-1055	8.5	20
93	Surface modified quantum dots as fluorescent probes for biomolecule recognition. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 447-59	1.3	19
92	Comparison of single-drop microextraction with microvolume pipette extraction directly coupled with capillary electrophoresis for extraction and separation of tricyclic antidepressant drugs. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 2071-2076	6.3	19
91	Surface-assisted laser desorption-ionization mass spectrometry of oligosaccharides using magnesium oxide nanoparticles as a matrix. <i>Mikrochimica Acta</i> , 2013 , 180, 405-413	5.8	19
90	Identification of multiply charged proteins and amino acid clusters by liquid nitrogen assisted spray ionization mass spectrometry. <i>Talanta</i> , 2012 , 97, 539-49	6.2	19

89	Designing of glutathione-lactose derivative for the fabrication of gold nanoclusters with red fluorescence: Sensing of Al ³⁺ and Cu ²⁺ ions with two different mechanisms. <i>Optical Materials</i> , 2020 , 100, 109704	3.3	19
88	Semiconductor cadmium sulphide nanoparticles as matrices for peptides and as co-matrices for the analysis of large proteins in matrix-assisted laser desorption/ionization reflectron and linear time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 271-80	2.2	18
87	Novel peptides functionalized gold nanoparticles decorated tungsten disulfide nanoflowers as the electrochemical sensing platforms for the norovirus in an oyster. <i>Food Control</i> , 2020 , 114, 107225	6.2	17
86	Comparison of different electrode materials and modification for power enhancement in benthic microbial fuel cells (BMFCs). <i>Chemical Engineering Research and Design</i> , 2018 , 117, 11-21	5.5	17
85	Performance of polypyrrole coated metal oxide composite electrodes for benthic microbial fuel cell (BMFC). <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 102757	6.8	17
84	Multi-functional groups of dithiocarbamate derivative assembly on gold nanoparticles for competitive detection of diafenthuron. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 796-805	8.5	16
83	Ascorbic acid-functionalized Ag NPs as a probe for colorimetric sensing of glutathione. <i>Applied Nanoscience (Switzerland)</i> , 2015 , 5, 747-753	3.3	16
82	Photo-induced reactions for disassembling of co-loaded photosensitizer and drug molecules from upconversion-mesoporous silica nanoparticles: An effective synergistic cancer therapy. <i>Materials Science and Engineering C</i> , 2020 , 110, 110545	8.3	16
81	2,3,4-Trihydroxy benzophenone as a novel reducing agent for one-step synthesis of size-optimized gold nanoparticles and their application in colorimetric sensing of adenine at nanomolar concentration. <i>RSC Advances</i> , 2016 , 6, 11099-11108	3.7	16
80	Electrostatically self-assembled azides on zinc sulfide nanoparticles as multifunctional nanoprobe for peptide and protein analysis in MALDI-TOF MS. <i>Talanta</i> , 2010 , 82, 540-7	6.2	16
79	Recent Advances in Titania-based Composites for Photocatalytic Degradation of Indoor Volatile Organic Compounds. <i>Asian Journal of Atmospheric Environment</i> , 2017 , 11, 217-234	1.3	16
78	Performance enhancement of benthic microbial fuel cell by cerium coated electrodes. <i>Electrochimica Acta</i> , 2019 , 295, 58-66	6.7	16
77	Nano-Vehicles for Drug Delivery Using Low-Cost Cationic Surfactants: A Drug Induced Structural Transitions. <i>ChemistrySelect</i> , 2018 , 3, 9454-9463	1.8	16
76	Facile synthesis of carbon dots from <i>Tagetes erecta</i> as a precursor for determination of chlorpyrifos via fluorescence turn-off and quinalphos via fluorescence turn-on mechanisms. <i>Chemosphere</i> , 2021 , 279, 130515	8.4	16
75	Rapid enrichment of phosphopeptides by BaTiO ₃ nanoparticles after microwave-assisted tryptic digest of phosphoproteins, and their identification by MALDI-MS. <i>Mikrochimica Acta</i> , 2012 , 179, 83-90	5.8	15
74	Single drop microextraction coupled with matrix-assisted laser desorption/ionization mass spectrometry for rapid and direct analysis of hydrophobic peptides from biological samples in high salt solution. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 307-15	2.2	15
73	Surface modifications and analytical applications of graphene oxide: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 144, 116448	14.6	15
72	Ractopamine as a novel reagent for the fabrication of gold nanoparticles: Colorimetric sensing of cysteine and Hg ²⁺ ion with different spectral characteristics. <i>Microchemical Journal</i> , 2020 , 158, 105212	4.8	14

71	Effect of cerium oxide nanoparticles coating on the electrodes of benthic microbial fuel cell. <i>Separation Science and Technology</i> , 2019 , 54, 213-223	2.5	14
70	Glutathione-capped <i>Syzygium cumini</i> carbon dot-amalgamated agarose hydrogel film for naked-eye detection of heavy metal ions. <i>Journal of Analytical Science and Technology</i> , 2020 , 11,	3.4	14
69	Pepsin mediated synthesis of blue fluorescent copper nanoclusters for sensing of flutamide and chloramphenicol drugs. <i>Microchemical Journal</i> , 2021 , 164, 105947	4.8	14
68	Electrospray ionization tandem mass spectrometry for rapid, sensitive and direct detection of melamine in dairy products. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 138-144	6.3	12
67	Assembly of 6-aza-2-thiothymine on gold nanoparticles for selective and sensitive colorimetric detection of pencycuron in water and food samples. <i>Talanta</i> , 2019 , 205, 120087	6.2	12
66	Surface-modified TiO ₂ nanoparticles as affinity probes and as matrices for the rapid analysis of phosphopeptides and proteins in MALDI-TOF-MS. <i>Journal of Separation Science</i> , 2010 , 33, 3400-8	3.4	12
65	Perspectives of magnetic nature carbon dots in analytical chemistry: From separation to detection and bioimaging. <i>Trends in Environmental Analytical Chemistry</i> , 2022 , 33, e00153	12	12
64	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⁺). <i>Journal of Molecular Liquids</i> , 2020 , 312, 113409	6	12
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