

Suresh Kumar Kailasa

List of Publications by Year in descending order

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Version: 2024-02-01

196
papers

8,920
citations

34100

52
h-index

62593

80
g-index

203
all docs

203
docs citations

203
times ranked

7984
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.	7.8	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.	7.3	342
3	Review of nanomaterials as sorbents in solid-phase extraction for environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 347-369.	11.4	240
4	Preparation of multicolor emitting carbon dots for HeLa cell imaging. <i>New Journal of Chemistry</i> , 2014, 38, 6152-6160.	2.8	215
5	Phytochemical-assisted synthetic approaches for silver nanoparticles antimicrobial applications: A review. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 326-339.	14.7	163
6	Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review. <i>Biosensors and Bioelectronics</i> , 2018, 121, 205-222.	10.1	163
7	Nanomaterial-based electrochemical sensors for arsenic - A review. <i>Biosensors and Bioelectronics</i> , 2017, 95, 106-116.	10.1	157
8	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.	11.4	152
9	Tuning of carbon dots emission color for sensing of Fe ³⁺ ion and bioimaging applications. <i>Materials Science and Engineering C</i> , 2019, 98, 834-842.	7.3	151
10	Cu-nanoflower decorated gold nanoparticles-graphene oxide nanofiber as electrochemical biosensor for glucose detection. <i>Materials Science and Engineering C</i> , 2020, 107, 110273.	7.3	138
11	Imaging of Bacterial and Fungal Cells Using Fluorescent Carbon Dots Prepared from <i>Carica papaya</i> Juice. <i>Journal of Fluorescence</i> , 2015, 25, 803-810.	2.5	137
12	A critical review of ferrate(VI)-based remediation of soil and groundwater. <i>Environmental Research</i> , 2018, 160, 420-448.	7.5	126
13	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.	14.7	119
14	One-step synthesis of fluorescent carbon dots for imaging bacterial and fungal cells. <i>Analytical Methods</i> , 2015, 7, 2373-2378.	2.7	113
15	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.	3.6	113
16	Green synthesis of multi-color emissive carbon dots from <i>Manilkara zapota</i> fruits for bioimaging of bacterial and fungal cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 191, 150-155.	3.8	113
17	Fluorescence sensing of Cu ²⁺ ion and imaging of fungal cell by ultra-small fluorescent carbon dots derived from <i>Acacia concinna</i> seeds. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 47-54.	7.8	110
18	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018, 187, 131-147.	9.3	105

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19	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, 9681-9688.	6.5	104
20	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.	10.1	101
21	Visual detection of arginine, histidine and lysine using quercetin-functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 1917-1929.	5.0	89
22	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.	7.8	87
23	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.	10.1	84
24	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.	4.3	79
25	One-pot synthesis of dopamine dithiocarbamate functionalized gold nanoparticles for quantitative analysis of small molecules and phosphopeptides in SALDI- and MALDI-MS. <i>Analyst</i> , 2012, 137, 1629.	3.5	77
26	Facile green synthesis of carbon dots from <i>Pyrus pyrifolia</i> fruit for assaying of Al ³⁺ ion via chelation enhanced fluorescence mechanism. <i>Journal of Molecular Liquids</i> , 2018, 264, 9-16.	4.9	76
27	Microwave assisted synthesis of tyrosine protected gold nanoparticles for dual (colorimetric and) Tj ETQq1 1 0.784314 rgBT /Overloc <i>Bioelectronics</i> , 2017, 88, 71-77.	10.1	75
28	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.	2.9	75
29	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.	4.7	75
30	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
31	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.	7.8	73
32	Colorimetric Detection of Copper in Water Samples Using Dopamine Dithiocarbamate-Functionalized Au Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4414-4420.	3.7	70
33	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.	2.5	70
34	Surface modifications and analytical applications of graphene oxide: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116448.	11.4	66
35	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.	7.8	65
36	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115646.	11.4	65

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37	Acid Oxidation of Muskmelon Fruit for the Fabrication of Carbon Dots with Specific Emission Colors for Recognition of Hg ²⁺ Ions and Cell Imaging. ACS Omega, 2019, 4, 19332-19340.	3.5	64
38	Surface modification of silver nanoparticles with dopamine dithiocarbamate for selective colorimetric sensing of mancozeb in environmental samples. Sensors and Actuators B: Chemical, 2014, 200, 219-226.	7.8	63
39	Simple and sensitive colorimetric sensing of Cd ²⁺ ion using chitosan dithiocarbamate functionalized gold nanoparticles as a probe. Sensors and Actuators B: Chemical, 2015, 220, 850-858.	7.8	63
40	Citrate-modified silver nanoparticles as a colorimetric probe for simultaneous detection of four triptan-family drugs. Sensors and Actuators B: Chemical, 2014, 197, 254-263.	7.8	62
41	Recent developments on fluorescent hybrid nanomaterials for metal ions sensing and bioimaging applications: A review. Journal of Molecular Liquids, 2021, 333, 115950.	4.9	60
42	Dopamine dithiocarbamate functionalized silver nanoparticles as colorimetric sensors for the detection of cobalt ion. Analytical Methods, 2013, 5, 1818.	2.7	59
43	Sensitive and selective colorimetric sensing of Fe ³⁺ ion by using p-amino salicylic acid dithiocarbamate functionalized gold nanoparticles. New Journal of Chemistry, 2014, 38, 1503-1511.	2.8	59
44	Trypsin mediated one-pot reaction for the synthesis of red fluorescent gold nanoclusters: Sensing of multiple analytes (carbidopa, dopamine, Cu ²⁺ , Co ²⁺ and Hg ²⁺ ions). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 215, 209-217.	3.9	59
45	Nanomaterial-based miniaturized extraction and preconcentration techniques coupled to matrix-assisted laser desorption/ionization mass spectrometry for assaying biomolecules. TrAC - Trends in Analytical Chemistry, 2015, 65, 54-72.	11.4	57
46	Perspectives of magnetic nature carbon dots in analytical chemistry: From separation to detection and bioimaging. Trends in Environmental Analytical Chemistry, 2022, 33, e00153.	10.3	57
47	Cyclen dithiocarbamate-functionalized silver nanoparticles as a probe for colorimetric sensing of thiram and paraquat pesticides via host-guest chemistry. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	56
48	4-Amino nicotinic acid mediated synthesis of gold nanoparticles for visual detection of arginine, histidine, methionine and tryptophan. Sensors and Actuators B: Chemical, 2016, 222, 780-789.	7.8	56
49	Applications of single-drop microextraction in analytical chemistry: A review. Trends in Environmental Analytical Chemistry, 2021, 29, e00113.	10.3	56
50	Amylase protected gold nanoclusters as chemo- and bio- sensor for nanomolar detection of deltamethrin and glutathione. Sensors and Actuators B: Chemical, 2019, 281, 812-820.	7.8	55
51	Fluorescence turn-off detection of spermine in biofluids using pepsin mediated synthesis of gold nanoclusters as a probe. Journal of Molecular Liquids, 2019, 280, 18-24.	4.9	54
52	Molecular assembly of 3-mercaptopropionic acid and guanidine acetic acid on silver nanoparticles for selective colorimetric detection of triazophos in water and food samples. Sensors and Actuators B: Chemical, 2016, 233, 486-495.	7.8	53
53	Influence of ligand chemistry on silver nanoparticles for colorimetric detection of Cr ³⁺ and Hg ²⁺ ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 195, 120-127.	3.9	53
54	Ascorbic acid functionalized gold nanoparticles as a probe for colorimetric and visual read-out determination of dichlorvos in environmental samples. Analytical Methods, 2014, 6, 9007-9014.	2.7	52

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55	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.	2.7	52
56	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.	5.4	52
57	Biomolecules as promising ligands in the synthesis of metal nanoclusters: Sensing, bioimaging and catalytic applications. <i>Trends in Environmental Analytical Chemistry</i> , 2021, 32, e00140.	10.3	52
58	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.	2.8	51
59	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.	2.8	50
60	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.	7.3	50
61	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.	4.9	50
62	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.	5.0	47
63	Drug-Induced Micelle-Vesicle Transition of a Cationic Gemini Surfactant: Potential Applications in Drug Delivery. <i>ChemPhysChem</i> , 2018, 19, 865-872.	2.1	47
64	Antimicrobial activity of silver nanoparticles. , 2019, , 461-484.		47
65	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, 527-534.	5.5	46
66	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.	2.8	44
67	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, 1176-1182.	5.5	43
68	Surface modified BaTiO ₃ nanoparticles as the matrix for phospholipids and as extracting probes for LLME of hydrophobic proteins in Escherichia coli by MALDI-MS. <i>Talanta</i> , 2013, 114, 283-290.	5.5	43
69	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.	3.5	42
70	Review on the biomedical and sensing applications of nanomaterial-incorporated hydrogels. <i>Materials Today Chemistry</i> , 2022, 23, 100746.	3.5	42
71	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, 1115-1125.	3.7	41
72	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.	7.8	41

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73	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.	7.8	41
74	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.	2.8	41
75	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.	11.4	41
76	One pot synthesis of fluorescent gold nanoclusters from <i>Curcuma longa</i> 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.	4.9	41
77	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.	3.6	40
78	Tuning of gold nanoclusters sensing applications with bovine serum albumin and bromelain for detection of Hg ²⁺ ion and lambda-cyhalothrin via fluorescence turn-off and on mechanisms. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2781-2791.	3.7	40
79	High resolution detection of high mass proteins up to 80,000Da via multifunctional CdS quantum dots in laser desorption/ionization mass spectrometry. <i>Talanta</i> , 2010, 83, 178-184.	5.5	39
80	Malonamide dithiocarbamate functionalized gold nanoparticles for colorimetric sensing of Cu ²⁺ and Hg ²⁺ ions. <i>RSC Advances</i> , 2015, 5, 4245-4255.	3.6	39
81	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.	3.6	39
82	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.	3.5	38
83	Influence of doping ion, capping agent and pH on the fluorescence properties of zinc sulfide quantum dots: Sensing of Cu ²⁺ and Hg ²⁺ ions and their biocompatibility with cancer and fungal cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 210, 212-221.	3.9	38
84	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.	8.2	38
85	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.	3.5	36
86	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.	7.8	36
87	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.	10.1	36
88	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.	11.4	36
89	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.	3.6	35
90	Fluorescent carbon dots derived from vancomycin for flutamide drug delivery and cell imaging. <i>New Journal of Chemistry</i> , 2016, 40, 7075-7083.	2.8	35

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91	Synthesis of Water Dispersible Fluorescent Carbon Nanocrystals from Syzygium cumini Fruits for the Detection of Fe ³⁺ Ion in Water and Biological Samples and Imaging of Fusarium avenaceum Cells. Journal of Fluorescence, 2017, 27, 125-134.	2.5	35
92	Pepsin mediated synthesis of blue fluorescent copper nanoclusters for sensing of glutamide and chloramphenicol drugs. Microchemical Journal, 2021, 164, 105947.	4.5	35
93	Review on MXenes-based nanomaterials for sustainable opportunities in energy storage, sensing and electrocatalytic reactions. Journal of Molecular Liquids, 2021, 342, 117524.	4.9	35
94	4-Aminothiophenol functionalized gold nanoparticles as colorimetric sensors for the detection of cobalt using UV-Visible spectrometry. Research on Chemical Intermediates, 2013, 39, 771-779.	2.7	34
95	Electrospray ionization tandem mass spectrometric studies of copper and iron complexes with tobramycin. International Journal of Mass Spectrometry, 2013, 338, 23-29.	1.5	34
96	Recent developments in nanoparticle-based MALDI mass spectrometric analysis of phosphoproteomes. Mikrochimica Acta, 2014, 181, 853-864.	5.0	34
97	Investigation of silicon doping into carbon dots for improved fluorescence properties for selective detection of Fe ³⁺ ion. Optical Materials, 2019, 96, 109374.	3.6	34
98	Green synthesis of carbon dots from Calotropis procera leaves for trace level identification of isoprothiolane. Microchemical Journal, 2021, 167, 106272.	4.5	34
99	Recent developments in carbon dot-based green analytical methods: new opportunities in fluorescence assays of pesticides, drugs and biomolecules. New Journal of Chemistry, 2022, 46, 14287-14308.	2.8	34
100	Fluorescence enhancement of bovine serum albumin gold nanoclusters from La ³⁺ ion: Detection of four divalent metal ions (Hg ²⁺ , Cu ²⁺ , Pb ²⁺ and Cd ²⁺). Journal of Molecular Liquids, 2021, 336, 116239.	4.9	33
101	Rapid discriminative detection of dengue viruses via loop mediated isothermal amplification. Talanta, 2018, 190, 391-396.	5.5	32
102	Ractopamine as a novel reagent for the fabrication of gold nanoparticles: Colorimetric sensing of cysteine and Hg ²⁺ ion with different spectral characteristics. Microchemical Journal, 2020, 158, 105212.	4.5	32
103	Recent progress on the modifications of ultra-small perovskite nanomaterials for sensing applications. TrAC - Trends in Analytical Chemistry, 2021, 144, 116432.	11.4	32
104	Lysozyme-Decorated Gold and Molybdenum Bimetallic Nanoclusters for the Selective Detection of Bilirubin as a Jaundice Biomarker. ACS Applied Nano Materials, 2021, 4, 11949-11959.	5.0	31
105	Progress on boron nitride nanostructure materials: properties, synthesis and applications in hydrogen storage and analytical chemistry. Journal of Nanostructure in Chemistry, 2023, 13, 1-41.	9.1	31
106	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.	3.6	30
107	Ligand exchange reactions on citrate-gold nanoparticles for a parallel colorimetric assay of six pesticides. New Journal of Chemistry, 2018, 42, 9080-9090.	2.8	30
108	Colorimetric and fluorescence "turn-on" methods for the sensitive detection of bromelain using carbon dots functionalized gold nanoparticles as a dual probe. RSC Advances, 2016, 6, 32025-32036.	3.6	29

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109	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.	5.5	29
110	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, 2247-2252.	1.5	28
111	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, 2924-2933.	2.4	27
112	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.	2.7	27
113	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.	5.6	27
114	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.	4.7	27
115	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.	7.3	26
116	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.	3.6	26
117	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.	1.5	25
118	Glutathione-capped Syzygium cumini carbon dot-amalgamated agarose hydrogel film for naked-eye detection of heavy metal ions. <i>Journal of Analytical Science and Technology</i> , 2020, 11, .	2.1	25
119	Applications of upconversion nanoparticles in analytical and biomedical sciences: a review. <i>Analyst</i> , 2022, 147, 3155-3179.	3.5	25
120	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.	3.6	24
121	Facile synthesis of highly blue fluorescent tyrosine coated molybdenum oxide quantum dots for the detection of imidacloprid pesticide. <i>Journal of Molecular Liquids</i> , 2020, 319, 114329.	4.9	24
122	Ionic liquid-based cationic vesicles: A de novo system to judiciously improve the solubility, stability and antimicrobial activity of curcumin. <i>Journal of Molecular Liquids</i> , 2021, 341, 117396.	4.9	24
123	Microchip-Based Capillary Electrophoresis for DNA Analysis in Modern Biotechnology: A Review. <i>Separation and Purification Reviews</i> , 2009, 38, 242-288.	5.5	23
124	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.	3.6	23
125	Performance of polypyrrole coated metal oxide composite electrodes for benthic microbial fuel cell (BMFC). <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 102757.	6.7	23
126	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.	7.8	22

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127	Performance enhancement of benthic microbial fuel cell by cerium coated electrodes. <i>Electrochimica Acta</i> , 2019, 295, 58-66.	5.2	22
128	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.	4.9	22
129	Surface-assisted laser desorption-ionization mass spectrometry of oligosaccharides using magnesium oxide nanoparticles as a matrix. <i>Mikrochimica Acta</i> , 2013, 180, 405-413.	5.0	21
130	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.	5.8	21
131	Ascorbic acid-functionalized Ag NPs as a probe for colorimetric sensing of glutathione. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 747-753.	3.1	21
132	Simple hydrothermal approach for synthesis of fluorescent molybdenum disulfide quantum dots: Sensing of Cr ³⁺ ion and cellular imaging. <i>Materials Science and Engineering C</i> , 2020, 111, 110778.	7.3	21
133	Trypsin encapsulated gold-silver bimetallic nanoclusters for recognition of quinalphos via fluorescence quenching and of Zn ²⁺ and Cd ²⁺ ions via fluorescence enhancement. <i>Journal of Molecular Liquids</i> , 2021, 327, 114830.	4.9	21
134	Functionalization of gold nanoparticles using guanidine thiocyanate for sensitive and selective visual detection of Cd ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129685.	7.8	21
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