Suresh Kumar Kailasa

List of Publications by Year
in descending order

196	8,920	34105 52	62596 80
papers	citations	h-index	g-index

203	203	203	7984
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-step hydrothermal approach to fabricate carbon dots from apple juice for imaging of mycobacterium and fungal cells. Sensors and Actuators B: Chemical, 2015, 213, 434-443.	7.8	394
2	One-pot green synthesis of carbon dots by using Saccharum officinarum juice for fluorescent imaging of bacteria (Escherichia coli) and yeast (Saccharomyces cerevisiae) cells. Materials Science and Engineering C, 2014, 38, 20-27.	7.3	342
3	Review of nanomaterials as sorbents in solid-phase extraction for environmental samples. TrAC - Trends in Analytical Chemistry, 2018, 108, 347-369.	11.4	240
4	Preparation of multicolor emitting carbon dots for HeLa cell imaging. New Journal of Chemistry, 2014, 38, 6152-6160.	2.8	215
5	Phytochemical-assisted synthetic approaches for silver nanoparticles antimicrobial applications: A review. Advances in Colloid and Interface Science, 2018, 256, 326-339.	14.7	163
6	Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review. Biosensors and Bioelectronics, 2018, 121, 205-222.	10.1	163
7	Nanomaterial-based electrochemical sensors for arsenic - A review. Biosensors and Bioelectronics, 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. TrAC - Trends in Analytical Chemistry, 2018, 105, 106-120.	11.4	152
9	Tuning of carbon dots emission color for sensing of Fe3+ ion and bioimaging applications. Materials Science and Engineering C, 2019, 98, 834-842.	7.3	151
10	Cu-nanoflower decorated gold nanoparticles-graphene oxide nanofiber as electrochemical biosensor for glucose detection. Materials Science and Engineering C, 2020, 107, 110273.	7.3	138
11	Imaging of Bacterial and Fungal Cells Using Fluorescent Carbon Dots Prepared from Carica papaya Juice. Journal of Fluorescence, 2015, 25, 803-810.	2.5	137
12	A critical review of ferrate(VI)-based remediation of soil and groundwater. Environmental Research, 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. Advances in Colloid and Interface Science, 2020, 278, 102123.	14.7	119
14	One-step synthesis of fluorescent carbon dots for imaging bacterial and fungal cells. Analytical Methods, 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. RSC Advances, 2016, 6, 12169-12179.	3.6	113
16	Green synthesis of multi-color emissive carbon dots from Manilkara zapota fruits for bioimaging of bacterial and fungal cells. Journal of Photochemistry and Photobiology B: Biology, 2019, 191, 150-155.	3.8	113
17	Fluorescence sensing of Cu2+ ion and imaging of fungal cell by ultra-small fluorescent carbon dots derived from Acacia concinna seeds. Sensors and Actuators B: Chemical, 2018, 277, 47-54.	7.8	110
18	Biofiltration of hydrogen sulfide: Trends and challenges. Journal of Cleaner Production, 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. Analytical Chemistry, 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. Biosensors and Bioelectronics, 2016, 80, 243-248.	10.1	101
21	Visual detection of arginine, histidine and lysine using quercetin-functionalized gold nanoparticles. Mikrochimica Acta, 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. Sensors and Actuators B: Chemical, 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. Biosensors and Bioelectronics, 2019, 123, 223-229.	10.1	84
24	Critical role of water stability in metalâ€“organic frameworks and advanced modification strategies for the extension of their applicability. Environmental Science: Nano, 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. Analyst, The, 2012, 137, 1629.	3.5	77
26	Facile green synthesis of carbon dots from Pyrus pyrifolia fruit for assaying of Al3+ ion via chelation enhanced fluorescence mechanism. Journal of Molecular Liquids, 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 Bioelectronics, 2017, 88, 71-77.	10.1	75
28	Synthesis of fluorescent carbon dots using Daucus carota subsp. sativus roots for mitomycin drug delivery. Optik, 2018, 158, 893-900.	2.9	75
29	Ultra-small two dimensional MXene nanosheets for selective and sensitive fluorescence detection of Ag+ and Mn2+ ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 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 MALDIâ€TOF MS. Proteomics, 2009, 9, 2656-2667.	2.2	74
31	Bifunctionalization of silver nanoparticles with 6-mercaptonicotinic acid and melamine for simultaneous colorimetric sensing of Cr3+ and Ba2+ ions. Sensors and Actuators B: Chemical, 2014, 195, 562-571.	7.8	73
32	Colorimetric Detection of Copper in Water Samples Using Dopamine Dithiocarbamate-Functionalized Au Nanoparticles. Industrial & Engineering Chemistry Research, 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. Journal of Fluorescence, 2017, 27, 111-124.	2.5	70
34	Surface modifications and analytical applications of graphene oxide: A review. TrAC - Trends in Analytical Chemistry, 2021, 144, 116448.	11.4	66
35	Influence of molecular assembly and NaCl concentration on gold nanoparticles for colorimetric detection of cysteine and glutathione. Sensors and Actuators B: Chemical, 2015, 212, 526-535.	7.8	65
36	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. TrAC - Trends in Analytical Chemistry, 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 Hg²⁺ 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 Cd2+ 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 Fe³⁺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, Cu2+, Co2+ and Hg2+ 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 hostâ€“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-mercaptopropinonic 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 Cr3+ and Hg2+ 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. Analytical Methods, 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. Biomaterials Science, 2019, 7, 5187-5196.	5.4	52
57	Biomolecules as promising ligands in the synthesis of metal nanoclusters: Sensing, bioimaging and catalytic applications. Trends in Environmental Analytical Chemistry, 2021, 32, e00140.	10.3	52
58	Microwave-assisted synthesis of water-soluble Eu³⁺ hybrid carbon dots with enhanced fluorescence for the sensing of Hg²⁺ ions and imaging of fungal cells. New Journal of Chemistry, 2018, 42, 6125-6133.	2.8	51
59	One-step eco-friendly approach for the fabrication of synergistically engineered fluorescent copper nanoclusters: sensing of Hg²⁺ ion and cellular uptake and bioimaging properties. New Journal of Chemistry, 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. Materials Science and Engineering C, 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. Journal of Molecular Liquids, 2020, 297, 111886.	4.9	50
62	Selective visual detection of Pb(II) ion via gold nanoparticles coated with a dithiocarbamate-modified 4â€²-aminobenzo-18-crown-6. Mikrochimica Acta, 2014, 181, 1905-1915.	5.0	47
63	Drugâ€Induced Micelleâ€toâ€Vesicle Transition of a Cationic Gemini Surfactant: Potential Applications in Drug Delivery. ChemPhysChem, 2018, 19, 865-872.	2.1	47
64	Antimicrobial activity of silver nanoparticles. , 2019, , 461-484.		47
65	Surface modified silver selinide nanoparticles as extracting probes to improve peptide/protein detection via nanoparticles-based liquid phase microextraction coupled with MALDI mass spectrometry. Talanta, 2010, 83, 527-534.	5.5	46
66	Functionalization of silver nanoparticles with 5-sulfoanthranilic acid dithiocarbamate for selective colorimetric detection of Mn²⁺and Cd²⁺ions. New Journal of Chemistry, 2016, 40, 4566-4574.	2.8	44
67	Nanoparticle-single drop microextraction as multifunctional and sensitive nanoprobes: Binary matrix approach for gold nanoparticles modified with (4-mercaptophenyliminomethyl)-2-methoxyphenol for peptide and protein analysis in MALDI-TOF MS. Talanta, 2010, 81, 1176-1182.	5.5	43
68	Surface modified BaTiO3 nanoparticles as the matrix for phospholipids and as extracting probes for LLME of hydrophobic proteins in Escherichia coli by MALDIâ€“MS. Talanta, 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. Analyst, The, 2021, 146, 1489-1513.	3.5	42
70	Review on the biomedical and sensing applications of nanomaterial-incorporated hydrogels. Materials Today Chemistry, 2022, 23, 100746.	3.5	42
71	Multifunctional ZrO2 nanoparticles and ZrO2-SiO2 nanorods for improved MALDI-MS analysis of cyclodextrins, peptides, and phosphoproteins. Analytical and Bioanalytical Chemistry, 2010, 396, 1115-1125.	3.7	41
72	Development of p-nitroaniline dithiocarbamate capped gold nanoparticles-based microvolume UVâ€“vis spectrometric method for facile and selective detection of quinalphos insecticide in environmental samples. Sensors and Actuators B: Chemical, 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. Sensors and Actuators B: Chemical, 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 As³⁺ ions in real samples. New Journal of Chemistry, 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. TrAC - Trends in Analytical Chemistry, 2019, 113, 256-279.	11.4	41
76	One pot synthesis of fluorescent gold nanoclusters from Curcuma longa extract for independent detection of Cd2+, Zn2+ and Cu2+ ions with high sensitivity. Journal of Molecular Liquids, 2020, 304, 112697.	4.9	41
77	Mg²⁺ ion as a tuner for colorimetric sensing of glyphosate with improved sensitivity via the aggregation of 2-mercapto-5-nitrobenzimidazole capped silver nanoparticles. RSC Advances, 2016, 6, 47741-47752.	3.6	40
78	Tuning of gold nanoclusters sensing applications with bovine serum albumin and bromelain for detection of Hg2+ ion and lambda-cyhalothrin via fluorescence turn-off and on mechanisms. Analytical and Bioanalytical Chemistry, 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. Talanta, 2010, 83, 178-184.	5.5	39
80	Malonamide dithiocarbamate functionalized gold nanoparticles for colorimetric sensing of Cu²⁺ and Hg²⁺ ions. RSC Advances, 2015, 5, 4245-4255.	3.6	39
81	Fluorescence detection of Fe3+ ion using ultra-small fluorescent carbon dots derived from pineapple (Ananas comosus): Development of miniaturized analytical method. Journal of Molecular Structure, 2020, 1216, 128343.	3.6	39
82	Dispersive liquidâ€“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. Analyst, The, 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 Cu2+ and Hg2+ ions and their biocompatibility with cancer and fungal cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 210, 212-221.	3.9	38
84	Facile synthesis of carbon dots from Tagetes erecta as a precursor for determination of chlorpyrifos via fluorescence turn-off and quinalphos via fluorescence turn-on mechanisms. Chemosphere, 2021, 279, 130515.	8.2	38
85	Interference free detection for small molecules: Probing the Mn2+-doped effect and cysteine capped effect on the ZnS nanoparticles for coccidiostats and peptide analysis in SALDI-TOF MS. Analyst, The, 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. Sensors and Actuators B: Chemical, 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. Biosensors and Bioelectronics, 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. TrAC - Trends in Analytical Chemistry, 2022, 153, 116607.	11.4	36
89	Dicoumarol assisted synthesis of water dispersible gold nanoparticles for colorimetric sensing of cysteine and lysozyme in biofluids. RSC Advances, 2015, 5, 39182-39191.	3.6	35
90	Fluorescent carbon dots derived from vancomycin for flutamide drug delivery and cell imaging. New Journal of Chemistry, 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 Fe3+ 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 flutamide 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 UVâ€“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 Fe3+ 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 La3+ ion: Detection of four divalent metal ions (Hg2+, Cu2+, Pb2+ and Cd2+). 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 Hg2+ 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 â€œturn-onâ€•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. Food Control, 2020, 114, 107225.	5.5	29
110	Cysteineâ€capped ZnSe quantum dots as affinity and accelerating probes for microwave enzymatic digestion of proteins via direct matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometric analysis. Rapid Communications in Mass Spectrometry, 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. Journal of Proteomics, 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. Analytical Methods, 2014, 6, 5972-5980.	2.7	27
113	Comparison of different electrode materials and modification for power enhancement in benthic microbial fuel cells (BMFCs). Chemical Engineering Research and Design, 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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 35-42.	4.7	27
115	Photo-induced reactions for disassembling of coloaded photosensitizer and drug molecules from upconversion-mesoporous silica nanoparticles: An effective synergistic cancer therapy. Materials Science and Engineering C, 2020, 110, 110545.	7.3	26
116	Designing of glutathione-lactose derivative for the fabrication of gold nanoclusters with red fluorescence: Sensing of Al3+and Cu2+ ions with two different mechanisms. Optical Materials, 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. International Journal of Mass Spectrometry, 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. Journal of Analytical Science and Technology, 2020, 11, .	2.1	25
119	Applications of upconversion nanoparticles in analytical and biomedical sciences: a review. Analyst, The, 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. RSC Advances, 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. Journal of Molecular Liquids, 2020, 319, 114329.	4.9	24
122	Ionic liquid-based catanionic vesicles: A de novo system to judiciously improve the solubility, stability and antimicrobial activity of curcumin. Journal of Molecular Liquids, 2021, 341, 117396.	4.9	24
123	Microchipâ€Based Capillary Electrophoresis for DNA Analysis in Modern Biotechnology: A Review. Separation and Purification Reviews, 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 Al³⁺ion in water samples. RSC Advances, 2015, 5, 33468-33477.	3.6	23
125	Performance of polypyrrole coated metal oxide composite electrodes for benthic microbial fuel cell (BMFC). Journal of Environmental Chemical Engineering, 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. Sensors and Actuators B: Chemical, 2016, 237, 1044-1055.	7.8	22

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127	Performance enhancement of benthic microbial fuel cell by cerium coated electrodes. Electrochimica Acta, 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 (Al3+, Fe3+ and Cr3+). Journal of Molecular Liquids, 2020, 312, 113409.	4.9	22
129	Surface-assisted laser desorption-ionization mass spectrometry of oligosaccharides using magnesium oxide nanoparticles as a matrix. Mikrochimica Acta, 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. Journal of Industrial and Engineering Chemistry, 2014, 20, 2071-2076.	5.8	21
131	Ascorbic acid-functionalized Ag NPs as a probe for colorimetric sensing of glutathione. Applied Nanoscience (Switzerland), 2015, 5, 747-753.	3.1	21
132	Simple hydrothermal approach for synthesis of fluorescent molybdenum disulfide quantum dots: Sensing of Cr3+ ion and cellular imaging. Materials Science and Engineering C, 2020, 111, 110778.	7.3	21
133	Trypsin encapsulated gold-silver bimetallic nanoclusters for recognition of quinalphos via fluorescence quenching and of Zn2+ and Cd2+ ions via fluorescence enhancement. Journal of Molecular Liquids, 2021, 327, 114830.	4.9	21
134	Functionalization of gold nanoparticles using guanidine thiocyanate for sensitive and selective visual detection of Cd2+. Sensors and Actuators B: Chemical, 2021, 334, 129685.	7.8	21
135	Semiconductor cadmium sulphide nanoparticles as matrices for peptides and as coâ€matrices for the analysis of large proteins in matrixâ€assisted laser desorption/ionization reflectron and linear timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 271-280.	1.5	20
136	Identification of multiply charged proteins and amino acid clusters by liquid nitrogen assisted spray ionization mass spectrometry. Talanta, 2012, 97, 539-549.	5.5	20
137	Semiconductor Nanomaterials-Based Fluorescence Spectroscopic and Matrix-Assisted Laser Desorption/Ionization (MALDI) Mass Spectrometric Approaches to Proteome Analysis. Materials, 2013, 6, 5763-5795.	2.9	20
138	Multi-functional groups of dithiocarbamate derivative assembly on gold nanoparticles for competitive detection of diafenthiuron. Sensors and Actuators B: Chemical, 2017, 244, 796-805.	7.8	20
139	Recent Advances in Titania-based Composites for Photocatalytic Degradation of Indoor Volatile Organic Compounds. Asian Journal of Atmospheric Environment, 2017, 11, 217-234.	1.1	20
140	Surface Modified Quantum Dots as Fluorescent Probes for Biomolecule Recognition. Journal of Nanoscience and Nanotechnology, 2014, 14, 447-459.	0.9	19
141	Assembly of 6-aza-2-thiothymine on gold nanoparticles for selective and sensitive colorimetric detection of pencycuron in water and food samples. Talanta, 2019, 205, 120087.	5.5	19
142	Progress of electrospray ionization and rapid evaporative ionization mass spectrometric techniques for the broad-range identification of microorganisms. Analyst, The, 2019, 144, 1073-1103.	3.5	19
143	One-pot fabrication of amino acid and peptide stabilized gold nanoclusters for the measurement of the lead in plasma samples using chemically modified cellulose paper. Sensors and Actuators B: Chemical, 2020, 322, 128603.	7.8	19
144	Present status of hybrid materials for potable water decontamination: a review. Environmental Science: Water Research and Technology, 2020, 6, 3214-3248.	2.4	19

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145	Chicken egg white mediated synthesis of platinum nanoclusters for the selective detection of carbidopa. Optical Materials, 2020, 107, 110085.	3.6	19
146	Electrostatically self-assembled azides on zinc sulfide nanoparticles as multifunctional nanoprobes for peptide and protein analysis in MALDI-TOF MS. Talanta, 2010, 82, 540-547.	5.5	18
147	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. RSC Advances, 2016, 6, 11099-11108.	3.6	18
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