Huan-Tsung Chang

List of Publications by Year
in descending order

399 papers	25,233 citations	81 h-index	142 g-index
		5876	9553
418 all docs	418 docs citations	418 times ranked	22964 citing authors

#	Article	IF	Citations
1	Fluorescent Gold Nanoclusters: Recent Advances in Sensing and Imaging. Analytical Chemistry, 2015, 87, 216-229.	3.2	725
2	Synthesis of Highly Fluorescent Gold Nanoparticles for Sensing Mercury(II). Angewandte Chemie - International Edition, 2007, 46, 6824-6828.	7.2	690
3	Aptamer-Modified Gold Nanoparticles for Colorimetric Determination of Platelet-Derived Growth Factors and Their Receptors. Analytical Chemistry, 2005, 77, 5735-5741.	3.2	530
4	Synthesis of high-quality carbon nanodots from hydrophilic compounds: role of functional groups. Chemical Communications, 2012, 48, 3984.	2.2	468
5	Detection of Mercury(II) Ions Using Colorimetric Gold Nanoparticles on Paper-Based Analytical Devices. Analytical Chemistry, 2014, 86, 6843-6849.	3.2	452
6	Selective Gold-Nanoparticle-Based â€œTurn-Onâ€•Fluorescent Sensors for Detection of Mercury(II) in Aqueous Solution. Analytical Chemistry, 2006, 78, 8332-8338.	3.2	449
7	Photoluminescent carbon nanodots: synthesis, physicochemical properties and analytical applications. Materials Today, 2015, 18, 447-458.	8.3	416
8	Synthesis and analytical applications of photoluminescent carbon nanodots. Green Chemistry, 2012, 14, 917.	4.6	404
9	Detection of mercury(ii) based on Hg2+â€“DNA complexes inducing the aggregation of gold nanoparticles. Chemical Communications, 2008, , 2242.	2.2	373
10	Gold nanoparticle probes for the detection of mercury, lead and copper ions. Analyst, The, 2011, 136, 863-871.	1.7	353
11	Silver nanoclusters as fluorescent probes for selective and sensitive detection of copper ions. Chemical Communications, 2010, 46, 1257.	2.2	352
12	Highly Selective DNA-Based Sensor for Lead(II) and Mercury(II) Ions. Analytical Chemistry, 2009, 81, 2383-2387.	3.2	339
13	Parameters for selective colorimetric sensing of mercury(ii) in aqueous solutions using mercaptopropionic acid-modified gold nanoparticles. Chemical Communications, 2007, , 1215-1217.	2.2	318
14	Oligonucleotide-Based Fluorescence Probe for Sensitive and Selective Detection of Mercury(II) in Aqueous Solution. Analytical Chemistry, 2008, 80, 3716-3721.	3.2	307
15	Nanoparticle-based mass spectrometry for the analysis of biomolecules. Chemical Society Reviews, 2011, 40, 1269-1281.	18.7	295
16	Cancer Cell Targeting Using Multiple Aptamers Conjugated on Nanorods. Analytical Chemistry, 2008, 80, 567-572.	3.2	291
17	Electrocatalytic sulfur electrodes for CdS/CdSe quantum dot-sensitized solar cells. Chemical Communications, 2010, 46, 5485.	2.2	272
18	Use of Fluorescent DNA-Templated Gold/Silver Nanoclusters for the Detection of Sulfide Ions. Analytical Chemistry, 2011, 83, 9450-9455.	3.2	271

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19	Carbon dots prepared from ginger exhibiting efficient inhibition of human hepatocellular carcinoma cells. Journal of Materials Chemistry B, 2014, 2, 4564.	2.9	258
20	Analysis of Adenosine Triphosphate and Glutathione through Gold Nanoparticles Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2007, 79, 4852-4859.	3.2	256
21	Selfâ€Assembly of Antimicrobial Peptides on Gold Nanodots: Against Multidrugâ€Resisted Bacteria and Woundâ€Healing Application. Advanced Functional Materials, 2015, 25, 7189-7199.	7.8	249
22	Quantum Dotâ€“Sensitized Solar Cells Featuring CuS/CoS Electrodes Provide 4.1% Efficiency. Advanced Energy Materials, 2011, 1, 259-264.	10.2	246
23	Quantum dot-sensitized solar cells incorporating nanomaterials. Chemical Communications, 2011, 47, 9561.	2.2	242
24	Excellent oxidation resistive MXene aqueous ink for micro-supercapacitor application. Energy Storage Materials, 2020, 25, 563-571.	9.5	235
25	Controllable Red, Green, Blue (RGB) and Bright White Upconversion Luminescence of Lu₂O₃:Yb³⁺/Er³⁺/Tm³⁺ Nanocrystals through Single Laser Excitation at 980â€...nm. Chemistry - A European Journal, 2009, 15, 4649-4655.	1.7	231
26	Detection of Copper Ions Through Recovery of the Fluorescence of DNA-Templated Copper/Silver Nanoclusters in the Presence of Mercaptopropionic Acid. Analytical Chemistry, 2010, 82, 8566-8572.	3.2	231
27	Carbon nanodots prepared from o-phenylenediamine for sensing of Cu²⁺ions in cells. Nanoscale, 2014, 6, 13119-13125.	2.8	219
28	Selective Photothermal Therapy for Mixed Cancer Cells Using Aptamer-Conjugated Nanorods. Langmuir, 2008, 24, 11860-11865.	1.6	214
29	Synthesis of Fluorescent Carbohydrate-Protected Au Nanodots for Detection of Concanavalin A and Escherichia coli. Analytical Chemistry, 2009, 81, 875-882.	3.2	211
30	Nile Red-Adsorbed Gold Nanoparticle Matrixes for Determining Aminothiols through Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2006, 78, 1485-1493.	3.2	210
31	Colorimetric Assay for Lead Ions Based on the Leaching of Gold Nanoparticles. Analytical Chemistry, 2009, 81, 9433-9439.	3.2	209
32	Synthesis of Graphene-ZnO-Au Nanocomposites for Efficient Photocatalytic Reduction of Nitrobenzene. Environmental Science & Technology, 2013, 47, 6688-6695.	4.6	204
33	Gold nanodot-based luminescent sensor for the detection of hydrogen peroxide and glucose. Chemical Communications, 2009, , 3437.	2.2	200
34	Bioconjugated Gold Nanodots and Nanoparticles for Protein Assays Based on Photoluminescence Quenching. Analytical Chemistry, 2008, 80, 1497-1504.	3.2	196
35	Extremely high inhibition activity of photoluminescent carbon nanodots toward cancer cells. Journal of Materials Chemistry B, 2013, 1, 1774.	2.9	192
36	Nile Red-Adsorbed Gold Nanoparticles for Selective Determination of Thiols Based on Energy Transfer and Aggregation. Analytical Chemistry, 2004, 76, 3727-3734.	3.2	182

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37	Fluorescent gold and silver nanoclusters for the analysis of biopolymers and cell imaging. Journal of Materials Chemistry, 2012, 22, 12972.	6.7	174
38	Synthesis of Dumbbell-Shaped Auâ˜'Ag Coreâ˜'Shell Nanorods by Seed-Mediated Growth under Alkaline Conditions. Langmuir, 2004, 20, 6089-6092.	1.6	173
39	Aptamer-Functionalized Gold Nanoparticles for Turn-On Light Switch Detection of Platelet-Derived Growth Factor. Analytical Chemistry, 2007, 79, 4798-4804.	3.2	159
40	Electrochemical synthesis of photoluminescent carbon nanodots from glycine for highly sensitive detection of hemoglobin. Green Chemistry, 2014, 16, 2509.	4.6	159
41	Colorimetric determination of urinary adenosine using aptamer-modified gold nanoparticles. Biosensors and Bioelectronics, 2008, 23, 1749-1753.	5.3	156
42	Fluorescence Detection of Lead(II) Ions Through Their Induced Catalytic Activity of DNAzymes. Analytical Chemistry, 2011, 83, 225-230.	3.2	156
43	Fluorescent silver nanoclusters stabilized by DNA scaffolds. Chemical Communications, 2014, 50, 9800.	2.2	155
44	Supercapacitors incorporating hollow cobalt sulfide hexagonal nanosheets. Journal of Power Sources, 2011, 196, 7874-7877.	4.0	147
45	Control over Surface DNA Density on Gold Nanoparticles Allows Selective and Sensitive Detection of Mercury(II). Langmuir, 2008, 24, 8346-8350.	1.6	146
46	Photoluminescent organosilane-functionalized carbon dots as temperature probes. Chemical Communications, 2013, 49, 1639.	2.2	146
47	Recent Advances and Sensing Applications of Carbon Dots. Small Methods, 2020, 4, 1900387.	4.6	145
48	One-step synthesis of biofunctional carbon quantum dots for bacterial labeling. Biosensors and Bioelectronics, 2015, 68, 1-6.	5.3	141
49	Preparation of Fluorescent Tellurium Nanowires at Room Temperature. Crystal Growth and Design, 2008, 8, 351-357.	1.4	136
50	Plant leaf-derived graphene quantum dots and applications for white LEDs. New Journal of Chemistry, 2014, 38, 4946-4951.	1.4	134
51	Carbon nanotubes/cobalt sulfide composites as potential high-rate and high-efficiency supercapacitors. Journal of Power Sources, 2012, 215, 43-47.	4.0	129
52	One-pot synthesis of fluorescent oligonucleotide Ag nanoclusters for specific and sensitive detection of DNA. Biosensors and Bioelectronics, 2011, 26, 2431-2435.	5.3	128
53	Enzyme Mimics of Au/Ag Nanoparticles for Fluorescent Detection of Acetylcholine. Analytical Chemistry, 2012, 84, 9706-9712.	3.2	127
54	Determination of catecholamines in single adrenal medullary cells by capillary electrophoresis and laser-induced native fluorescence. Analytical Chemistry, 1995, 67, 1079-1083.	3.2	120

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55	Aptamer-based fluorescence sensor for rapid detection of potassium ions in urine. Chemical Communications, 2008, , 1461.	2.2	117
56	Porous palladium copper nanoparticles for the electrocatalytic oxidation of methanol in direct methanol fuel cells. Journal of Materials Chemistry A, 2013, 1, 4773.	5.2	117
57	Fluorescent Gold Nanodots Based Sensor Array for Proteins Discrimination. Analytical Chemistry, 2015, 87, 4253-4259.	3.2	115
58	Separation of Long Double-Stranded DNA by Nanoparticle-Filled Capillary Electrophoresis. Analytical Chemistry, 2004, 76, 192-196.	3.2	114
59	Peroxidase-mimic bismuthâ€“gold nanoparticles for determining the activity of thrombin and drug screening. Chemical Communications, 2012, 48, 7952.	2.2	114
60	Label-free colorimetric detection of picomolar thrombin in blood plasma using a gold nanoparticle-based assay. Biosensors and Bioelectronics, 2010, 25, 1922-1927.	5.3	108
61	Synthesis of wavelength-tunable luminescent gold and gold/silver nanodots. Journal of Materials Chemistry, 2009, 19, 755-759.	6.7	106
62	Poly(ethyleneoxide) for high resolution and high-speed separation of DNA by capillary electrophoresis. Biomedical Applications, 1995, 669, 113-123.	1.7	105
63	Selective Colorimetric Detection of Hydrogen Sulfide Based on Primary Amine-Active Ester Cross-Linking of Gold Nanoparticles. Analytical Chemistry, 2015, 87, 7267-7273.	3.2	105
64	Photo-assisted synthesis of highly fluorescent ZnSe(S) quantum dots in aqueous solution. Journal of Materials Chemistry, 2007, 17, 2661.	6.7	104
65	Logic Control of Enzyme-Like Gold Nanoparticles for Selective Detection of Lead and Mercury Ions. Analytical Chemistry, 2014, 86, 2065-2072.	3.2	104
66	Carbon Dot-Mediated Synthesis of Manganese Oxide Decorated Graphene Nanosheets for Supercapacitor Application. ACS Sustainable Chemistry and Engineering, 2016, 4, 3008-3016.	3.2	104
67	Photoluminescent C-dots@RGO Probe for Sensitive and Selective Detection of Acetylcholine. Analytical Chemistry, 2013, 85, 3263-3270.	3.2	103
68	Photoluminescent graphene quantum dots for in vivo imaging of apoptotic cells. Nanoscale, 2015, 7, 2504-2510.	2.8	100
69	Electricalâ€Polarizationâ€Induced Ultrahigh Responsivity Photodetectors Based on Graphene and Graphene Quantum Dots. Advanced Functional Materials, 2016, 26, 620-628.	7.8	98
70	Proteinâ^'Protein Interaction Studies Based on Molecular Aptamers by Affinity Capillary Electrophoresis. Analytical Chemistry, 2004, 76, 6973-6981.	3.2	97
71	Using a Layer-by-Layer Assembly Technique to Fabricate Multicolored-Light-Emitting Films of CdSe@CdS and CdTe Quantum Dots. Advanced Materials, 2006, 18, 1381-1386.	11.1	97
72	Logical regulation of the enzyme-like activity of gold nanoparticles by using heavy metal ions. Nanoscale, 2013, 5, 8227.	2.8	97

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73	Determining estrogens using surface-assisted laser desorption/ionization mass spectrometry with silver nanoparticles as the matrix. Journal of the American Society for Mass Spectrometry, 2008, 19, 1343-1346.	1.2	95
74	Catalytic gold nanoparticles for fluorescent detection of mercury(II) and lead(II) ions. Analytica Chimica Acta, 2012, 745, 124-130.	2.6	91
75	A simple strategy for improving the energy conversion of multilayered CdTe quantum dot-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 2349.	6.7	90
76	Determining enediol compounds in tea using surface-assisted laser desorption/ionization mass spectrometry with titanium dioxide nanoparticle matrices. Rapid Communications in Mass Spectrometry, 2007, 21, 2023-2030.	0.7	89
77	Aptamer-modified gold nanoparticles for targeting breast cancer cells through light scattering. Journal of Nanoparticle Research, 2009, 11, 775-783.	0.8	86
78	Highly Stretchable and Sensitive Photodetectors Based on Hybrid Graphene and Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2016, 8, 466-471.	4.0	86
79	Wrinkled 2D Materials: A Versatile Platform for Lowâ€Threshold Stretchable Random Lasers. Advanced Materials, 2017, 29, 1703549.	11.1	85
80	Gold nanoparticles as sensitive optical probes. Analyst, The, 2016, 141, 1611-1626.	1.7	84
81	Gold Nanoparticleâ€“Aluminum Oxide Adsorbent for Efficient Removal of Mercury Species from Natural Waters. Environmental Science & Technology, 2012, 46, 2724-2730.	4.6	82
82	Photoassisted Synthesis of CdSe and Coreâ”Shell CdSe/CdS Quantum Dots. Langmuir, 2005, 21, 728-734.	1.6	79
83	Facile Synthesis of Catalytically Active Platinum Nanosponges, Nanonetworks, and Nanodendrites. Chemistry - A European Journal, 2009, 15, 4656-4662.	1.7	78
84	Fluorescent Carbon Dots for Selective Labeling of Subcellular Organelles. ACS Omega, 2020, 5, 11248-11261.	1.6	78
85	Nanomaterial-based surface-assisted laser desorption/ionization mass spectrometry of peptides and proteins. Journal of the American Society for Mass Spectrometry, 2010, 21, 1204-1207.	1.2	77
86	On-Line Concentration and Separation of Proteins by Capillary Electrophoresis Using Polymer Solutions. Analytical Chemistry, 2000, 72, 4805-4811.	3.2	75
87	Fluorescence detection of mercury(II) and lead(II) ions using aptamer/reporter conjugates. Talanta, 2011, 84, 324-329.	2.9	75
88	Antibacterial Activities of Tellurium Nanomaterials. Chemistry - an Asian Journal, 2012, 7, 930-934.	1.7	74
89	Signal Amplified Gold Nanoparticles for Cancer Diagnosis on Paper-Based Analytical Devices. ACS Sensors, 2018, 3, 174-182.	4.0	73
90	Capillary electrophoresis-based separation techniques for the analysis of proteins. Electrophoresis, 2006, 27, 3503-3522.	1.3	72

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91	One-pot synthesis of fluorescent BSAâ€“Ce/Au nanoclusters as ratiometric pH probes. Chemical Communications, 2014, 50, 8571.	2.2	72
92	The isomeric effect of mercaptobenzoic acids on the preparation and fluorescence properties of copper nanoclusters. Chemical Communications, 2015, 51, 11983-11986.	2.2	71
93	Detection of Proteins and Proteinâ˜Ligand Complexes Using HgTe Nanostructure Matrixes in Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 4543-4550.	3.2	70
94	Control of synthesis and optical properties of DNA templated silver nanoclusters by varying DNA length and sequence. RSC Advances, 2011, 1, 802.	1.7	69
95	Photoluminescent AuCu bimetallic nanoclusters as pH sensors and catalysts. Nanoscale, 2014, 6, 3503.	2.8	69
96	Synthesis of photoluminescent carbon dots for the detection of cobalt ions. RSC Advances, 2015, 5, 2285-2291.	1.7	69
97	Nanomaterials and chip-based nanostructures for capillary electrophoretic separations of DNA. Electrophoresis, 2005, 26, 320-330.	1.3	68
98	Growth of various Auâ€“Ag nanocomposites from gold seeds in amino acid solutions. Nanotechnology, 2006, 17, 4885-4894.	1.3	67
99	Synthesis of copper nanowire decorated reduced graphene oxide for electro-oxidation of methanol. Journal of Materials Chemistry A, 2013, 1, 5973.	5.2	67
100	Size-tunable copper nanocluster aggregates and their application in hydrogen sulfide sensing on paper-based devices. Scientific Reports, 2016, 6, 24882.	1.6	66
101	Synergistically dual-functional nano eye-drops for simultaneous anti-inflammatory and anti-oxidative treatment of dry eye disease. Nanoscale, 2019, 11, 5580-5594.	2.8	66
102	Highly adhesive carbon quantum dots from biogenic amines for prevention of biofilm formation. Chemical Engineering Journal, 2020, 386, 123913.	6.6	64
103	Synthesis of enzyme mimics of iron telluride nanorods for the detection of glucose. Chemical Communications, 2012, 48, 4079.	2.2	61
104	Visual detection of cyanide ions by membrane-based nanozyme assay. Biosensors and Bioelectronics, 2018, 102, 510-517.	5.3	61
105	Fluorescence detection of single nucleotide polymorphisms using a universal molecular beacon. Nucleic Acids Research, 2008, 36, e123-e123.	6.5	60
106	DNA functionalized gold nanoparticles for bioanalysis. Analytical Methods, 2009, 1, 14.	1.3	60
107	Synthesis of Photoluminescent Au NDâ€“PNIPAM Hybrid Microgel for the Detection of Hg²⁺. ACS Applied Materials & Interfaces, 2013, 5, 4383-4388.	4.0	60
108	Optical and Electrochemical Applications of Siliconâ€“Carbon Dots/Silicon Dioxide Nanocomposites. ACS Nano, 2015, 9, 312-319.	7.3	60

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109	Facet- and structure-dependent catalytic activity of cuprous oxide/polypyrrole particles towards the efficient reduction of carbon dioxide to methanol. Nanoscale, 2018, 10, 11869-11880.	2.8	60
110	Nanoparticle-filled capillary electrophoresis for the separation of long DNA molecules in the presence of hydrodynamic and electrokinetic forces. Electrophoresis, 2005, 26, 3069-3075.	1.3	59
111	Analysis of biologically active amines by CE. Electrophoresis, 2006, 27, 4792-4807.	1.3	59
112	Synthesis of fluorescent and photovoltaic Cu₂O nanocubes. Nanotechnology, 2008, 19, 025604.	1.3	59
113	Synthesis and characterization of Au coreâ€“Auâ€“Ag shell nanoparticles from gold seeds: Impacts of glycine concentration and pH. Journal of Colloid and Interface Science, 2006, 301, 145-154.	5.0	58
114	Silver nanoclusters as fluorescent nanosensors for selective and sensitive nitrite detection. Analytical Methods, 2016, 8, 2628-2633.	1.3	58
115	Carbonized nanogels for simultaneous antibacterial and antioxidant treatment of bacterial keratitis. Chemical Engineering Journal, 2021, 411, 128469.	6.6	58
116	Preparation of Goldâ˜Tellurium Hybrid Nanomaterials for Surface-Enhanced Raman Spectroscopy. Langmuir, 2008, 24, 365-367.	1.6	57
117	Immobilization of aptamer-modified gold nanoparticles on BiOCl nanosheets: Tunable peroxidase-like activity by protein recognition. Biosensors and Bioelectronics, 2016, 75, 181-187.	5.3	57
118	Synthesis and catalysis of copper sulfide/carbon nanodots for oxygen reduction in direct methanol fuel cells. Applied Catalysis B: Environmental, 2013, 132-133, 363-369.	10.8	56
119	Improved separation of double-stranded DNA fragments by capillary electrophoresis using poly(ethylene oxide) solution containing colloids. Electrophoresis, 2003, 24, 2896-2902.	1.3	55
120	Analysis of double-stranded DNA by microchip capillary electrophoresis using polymer solutions containing gold nanoparticles. Journal of Chromatography A, 2003, 1014, 47-55.	1.8	55
121	Discontinuous electrolyte systems for improved detection of biologically active amines and acids by capillary electrophoresis with laser-induced native fluorescence detection. Electrophoresis, 2005, 26, 187-195.	1.3	55
122	Synthesis of Fluorescent Gold Nanodotâ€“Liposome Hybrids for Detection of Phospholipase C and Its Inhibitor. Analytical Chemistry, 2013, 85, 8834-8840.	3.2	55
123	Laser-induced fluorescence technique for DNA and proteins separated by capillary electrophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 793, 37-48.	1.2	54
124	Accurate quantitation of glutathione in cell lysates through surface-assisted laser desorption/ionization mass spectrometry using gold nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 530-537.	1.7	53
125	CdHgTe and CdTe quantum dot solar cells displaying an energy conversion efficiency exceeding 2%. Solar Energy Materials and Solar Cells, 2010, 94, 2046-2051.	3.0	53
126	Characterization and application to the detection of single-stranded DNA binding protein of fluorescent DNA-templated copper/silver nanoclusters. Analyst, The, 2011, 136, 3623.	1.7	53

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127	Separation of double-stranded DNA fragments by capillary electrophoresis: Impacts of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	52
128	Aptamerâ€Conjugated Nanoparticles Efficiently Control the Activity of Thrombin. Advanced Functional Materials, 2010, 20, 3175-3182.	7.8	51
129	Using photoluminescent gold nanodots to detect hemoglobin in diluted blood samples. Biosensors and Bioelectronics, 2013, 43, 38-44.	5.3	51
130	Electrochemical synthesis of carbon dots with a Stokes shift of 309Ânm for sensing of Fe3+ and ascorbic acid. Dyes and Pigments, 2021, 185, 108878.	2.0	51
131	Electrophoretic Separation of Small DNA Fragments in the Presence of Electroosmotic Flow Using Poly(ethylene oxide) Solutions. Analytical Chemistry, 1999, 71, 2033-2036.	3.2	50
132	On-line concentration of trace proteins by pH junctions in capillary electrophoresis with UV absorption detection. Journal of Chromatography A, 2002, 979, 261-270.	1.8	49
133	Determination of glycine, glutamine, glutamate, and Î³-aminobutyric acid in cerebrospinal fluids by capillary electrophoresis with light-emitting diode-induced fluorescence detection. Analytica Chimica Acta, 2005, 538, 143-150.	2.6	49
134	Fluorescence detection of single-nucleotide polymorphisms using a thymidine-based molecular beacon. Biosensors and Bioelectronics, 2009, 24, 2541-2546.	5.3	49
135	Determination of aristolochic acid in Chinese herbal medicine by capillary electrophoresis with laser-induced fluorescence detection. Journal of Chromatography A, 2006, 1105, 127-134.	1.8	48
136	Ligand effect on the luminescence of gold nanodots and its application for detection of total mercury ions in biological samples. RSC Advances, 2013, 3, 4588.	1.7	48
137	Photoluminescence sensing systems based on copper, gold and silver nanomaterials. Coordination Chemistry Reviews, 2016, 320-321, 129-138.	9.5	48
138	Silica nanoparticles for separation of biologically active amines by capillary electrophoresis with laser-induced native fluorescence detection. Electrophoresis, 2005, 26, 2643-2651.	1.3	47
139	Highly efficient inhibition of human immunodeficiency virus type 1 reverse transcriptase by aptamers functionalized gold nanoparticles. Nanoscale, 2013, 5, 2756.	2.8	47
140	Green synthesis of catalytic gold/bismuth oxyiodide nanocomposites with oxygen vacancies for treatment of bacterial infections. Nanoscale, 2018, 10, 11808-11819.	2.8	47
141	Quantification of captopril in urine through surface-assisted laser desorption/ionization mass spectrometry using 4-mercaptobenzoic acid-capped gold nanoparticles as an internal standard. Journal of the American Society for Mass Spectrometry, 2010, 21, 864-867.	1.2	46
142	Disassembly mediated fluorescence recovery of gold nanodots for selective sulfide sensing. Nanoscale, 2013, 5, 4683.	2.8	46
143	Enrichment and fluorescence enhancement of adenosine using aptamerâ€“gold nanoparticles, PDGF aptamer, and Oligreen. Talanta, 2010, 81, 493-498.	2.9	45
144	Molecularly Imprinted Aptamers of Gold Nanoparticles for the Enzymatic Inhibition and Detection of Thrombin. Langmuir, 2012, 28, 8944-8951.	1.6	45

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145	Improved Separation of Microheterogeneities and Isoforms of Proteins by Capillary Electrophoresis Using Segmental Filling with SDS and PEO in the Background Electrolyte. Analytical Chemistry, 2002, 74, 4828-4834.	3.2	44
146	Stacking, derivatization, and separation by capillary electrophoresis of amino acids from cerebrospinal fluids. Electrophoresis, 2006, 27, 1922-1931.	1.3	44
147	Photoassisted Synthesis of Luminescent Mannoseâ€“Au Nanodots for the Detection of Thyroglobulin in Serum. Chemistry - an Asian Journal, 2010, 5, 334-341.	1.7	44
148	Peroxidase mimicking DNAâ€“gold nanoparticles for fluorescence detection of the lead ions in blood. Analyst, The, 2012, 137, 5222.	1.7	44
149	Biomedical Applications of DNAâ€Conjugated Gold Nanoparticles. ChemBioChem, 2016, 17, 1052-1062.	1.3	44
150	Detection of urinary spermine by using silver-gold/silver chloride nanozymes. Analytica Chimica Acta, 2018, 1009, 89-97.	2.6	44
151	On-column preconcentration and separation of DNA fragments using polymer solutions in the presence of electroosmotic flow. Electrophoresis, 2000, 21, 2904-2910.	1.3	43
152	Immunoaffinity capillary electrophoresis: Determination of binding constant and stoichiometry for antibody-antigen interaction. Electrophoresis, 2002, 23, 836-846.	1.3	43
153	Copper Sulfide Nanoassemblies for Catalytic and Photoresponsive Eradication of Bacteria from Infected Wounds. ACS Applied Materials & Interfaces, 2021, 13, 7865-7878.	4.0	43
154	CE with sequential light-emitting diode-induced fluorescence and electro-chemiluminescence detections for the determination of amino acids and alkaloids. Electrophoresis, 2007, 28, 1092-1099.	1.3	42
155	Fluorescence and interactions with thiol compounds of Nile Red-adsorbed gold nanoparticles. Journal of Colloid and Interface Science, 2007, 307, 340-348.	5.0	42
156	Protein A-conjugated luminescent gold nanodots as a label-free assay for immunoglobulin G in plasma. Analyst, The, 2011, 136, 1177.	1.7	42
157	Polymer/reduced graphene oxide functionalized sponges as superabsorbents for oil removal and recovery. Marine Pollution Bulletin, 2017, 114, 888-895.	2.3	42
158	Polydopamine-coated gold nanostar for combined antitumor and antiangiogenic therapy in multidrug-resistant breast cancer. Nanotheranostics, 2019, 3, 266-283.	2.7	41
159	Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient. Journal of Chromatography A, 1992, 608, 65-72.	1.8	40
160	Using a Functional Nanogold Membrane Coupled with Laser Desorption/Ionization Mass Spectrometry to Detect Lead Ions in Biofluids. Advanced Functional Materials, 2011, 21, 4448-4455.	7.8	40
161	Analysis of amino acids and biogenic amines in breast cancer cells by capillary electrophoresis using polymer solutions containing sodium dodecyl sulfate. Journal of Chromatography A, 2010, 1217, 582-587.	1.8	39
162	Detection of hydrogen sulfide through photoluminescence quenching of penicillamine-copper nanocluster aggregates. Nanotechnology, 2014, 25, 195502.	1.3	39

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163	Gold and Silver Nanomaterialâ€Based Optical Sensing Systems. Particle and Particle Systems Characterization, 2014, 31, 917-942.	1.2	39
164	Controlled synthesis of Se-supported Au/Pd nanoparticles with photo-assisted electrocatalytic activity and their application in self-powered sensing systems. Nano Energy, 2016, 22, 564-571.	8.2	39
165	Tuning the photoluminescence of metal nanoclusters for selective detection of multiple heavy metal ions. Sensors and Actuators B: Chemical, 2020, 321, 128539.	4.0	38
166	Light-emitting diode-based indirect fluorescence detection for simultaneous determination of anions and cations in capillary electrophoresis. Journal of Chromatography A, 2003, 1017, 215-224.	1.8	37
167	Gold Nanoparticles Presenting Hybridized Selfâ€Assembled Aptamers That Exhibit Enhanced Inhibition of Thrombin. Angewandte Chemie - International Edition, 2011, 50, 7660-7665.	7.2	37
168	Synthesis of aluminum oxide supported fluorescent gold nanodots for the detection of silver ions. Nanoscale, 2013, 5, 4691.	2.8	37
169	Determination of tertiary amines based on pH junctions and field amplification in capillary electrophoresis with electrochemiluminescence detection. Electrophoresis, 2005, 26, 2984-2990.	1.3	36
170	Selective growth of gold nanoparticles onto tellurium nanowires via a green chemical route. Journal of Materials Chemistry, 2008, 18, 2569.	6.7	36
171	Palladium copper nanosponges for electrocatalytic reduction of oxygen and glucose detection. Journal of Materials Chemistry A, 2015, 3, 9675-9681.	5.2	36
172	Branched DNA Junction-Enhanced Isothermal Circular Strand Displacement Polymerization for Intracellular Imaging of MicroRNAs. Analytical Chemistry, 2018, 90, 13891-13899.	3.2	36
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