Youyu Zhang

List of Publications by Year
in descending order

247 papers	11,659 citations	25014 57 h-index	43868 91 g-index
248 all docs	248 docs citations	248 times ranked	12271 citing authors

#	Article	IF	Citations
1	Electrochemical Synthesis of Carbon Nanodots Directly from Alcohols. Chemistry - A European Journal, 2014, 20, 4993-4999.	1.7	290
2	One-pot electrochemical synthesis of functionalized fluorescent carbon dots and their selective sensing for mercury ion. Analytica Chimica Acta, 2015, 866, 69-74.	2.6	244
3	Green synthesis of carbon dots with down- and up-conversion fluorescent properties for sensitive detection of hypochlorite with a dual-readout assay. Analyst, The, 2013, 138, 6551.	1.7	241
4	Universal Ti₃C₂ MXenes Based Self-Standard Ratiometric Fluorescence Resonance Energy Transfer Platform for Highly Sensitive Detection of Exosomes. Analytical Chemistry, 2018, 90, 12737-12744.	3.2	230
5	A double signal amplification platform for ultrasensitive and simultaneous detection of ascorbic acid, dopamine, uric acid and acetaminophen based on a nanocomposite of ferrocene thiolate stabilized Fe3O4@Au nanoparticles with graphene sheet. Biosensors and Bioelectronics, 2013, 48, 75-81.	5.3	222
6	Nanosensor Composed of Nitrogen-Doped Carbon Dots and Gold Nanoparticles for Highly Selective Detection of Cysteine with Multiple Signals. Analytical Chemistry, 2015, 87, 2195-2203.	3.2	217
7	Recent Advances in the Development of Water Oxidation Electrocatalysts at Mild pH. Small, 2019, 15, e1805103.	5.2	206
8	Upconversion nanoparticle-based fluorescence resonance energy transfer assay for organophosphorus pesticides. Biosensors and Bioelectronics, 2015, 68, 168-174.	5.3	194
9	A Label-Free Silicon Quantum Dots-Based Photoluminescence Sensor for Ultrasensitive Detection of Pesticides. Analytical Chemistry, 2013, 85, 11464-11470.	3.2	182
10	Multifunctional Electrochemical Platforms Based on the Michael Addition/Schiff Base Reaction of Polydopamine Modified Reduced Graphene Oxide: Construction and Application. ACS Applied Materials & Interfaces, 2015, 7, 17935-17946.	4.0	171
11	Ultrasensitive and simultaneous detection of hydroquinone, catechol and resorcinol based on the electrochemical co-reduction prepared Au-Pd nanoflower/reduced graphene oxide nanocomposite. Electrochimica Acta, 2017, 231, 677-685.	2.6	167
12	Simultaneous Visualization of Endogenous Homocysteine, Cysteine, Glutathione, and their Transformation through Different Fluorescence Channels. Angewandte Chemie - International Edition, 2019, 58, 4557-4561.	7.2	159
13	Sensitive Electrochemical Aptamer Biosensor for Dynamic Cell Surface N-Glycan Evaluation Featuring Multivalent Recognition and Signal Amplification on a Dendrimerâ€“Graphene Electrode Interface. Analytical Chemistry, 2014, 86, 4278-4286.	3.2	158
14	Ultrasensitive electrochemical aptasensor for thrombin based on the amplification of aptamerâ€“AuNPsâ€“HRP conjugates. Biosensors and Bioelectronics, 2011, 26, 2297-2303.	5.3	142
15	A new turn-on fluorescent probe for selective detection of glutathione and cysteine in living cells. Chemical Communications, 2013, 49, 4640.	2.2	142
16	A quadruplet electrochemical platform for ultrasensitive and simultaneous detection of ascorbic acid, dopamine, uric acid and acetaminophen based on a ferrocene derivative functional Au NPs/carbon dots nanocomposite and graphene. Analytica Chimica Acta, 2016, 903, 69-80.	2.6	142
17	High fluorescence S, N co-doped carbon dots as an ultra-sensitive fluorescent probe for the determination of uric acid. Talanta, 2016, 155, 62-69.	2.9	131
18	Label-free Si quantum dots as photoluminescence probes for glucose detection. Chemical Communications, 2013, 49, 612-614.	2.2	125

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19	A Study of Depletion Layer Effects on Equivalent Circuit Parameters Using an Electrochemical Quartz Crystal Impedance System. Analytical Chemistry, 1999, 71, 4649-4656.	3.2	116
20	A Mesoporous Rod-like g-C₃N₅ Synthesized by Salt-Guided Strategy: As a Superior Photocatalyst for Degradation of Organic Pollutant. ACS Sustainable Chemistry and Engineering, 2019, 7, 625-631.	3.2	114
21	Gold nanoclusters as switch-off fluorescent probe for detection of uric acid based on the inner filter effect of hydrogen peroxide-mediated enlargement of gold nanoparticles. Biosensors and Bioelectronics, 2017, 91, 734-740.	5.3	113
22	One-step electrochemical synthesis of ultrathin graphitic carbon nitride nanosheets and their application to the detection of uric acid. Chemical Communications, 2015, 51, 12251-12253.	2.2	112
23	Scanning Electrochemical Microscopy in Combination with Piezoelectric Quartz Crystal Impedance Analysis for Studying the Growth and Electrochemistry as Well as Microetching of Poly(o-phenylenediamine) Thin Films. Journal of Physical Chemistry B, 2005, 109, 4053-4063.	1.2	105
24	Development of a new atropine sulfate bulk acoustic wave sensor based on a molecularly imprinted electrosynthesized copolymer of aniline with o-phenylenediamine. Analytica Chimica Acta, 2000, 423, 221-228.	2.6	102
25	Polyamidoamine Dendrimer and Oleic Acid-Functionalized Graphene as Biocompatible and Efficient Gene Delivery Vectors. ACS Applied Materials & Interfaces, 2014, 6, 8173-8183.	4.0	102
26	Upconversion ratiometric fluorescence and colorimetric dual-readout assay for uric acid. Biosensors and Bioelectronics, 2016, 86, 664-670.	5.3	101
27	Rapid and highly-sensitive uric acid sensing based on enzymatic catalysis-induced upconversion inner filter effect. Biosensors and Bioelectronics, 2016, 86, 109-114.	5.3	101
28	2D titanium carbide MXenes as emerging optical biosensing platforms. Biosensors and Bioelectronics, 2021, 171, 112730.	5.3	101
29	Room-temperature ionic liquids/multi-walled carbon nanotubes/chitosan composite electrode for electrochemical analysis of NADH. Electrochimica Acta, 2007, 52, 6630-6637.	2.6	97
30	Facile Preparation of MnO₂ Quantum Dots with Enhanced Fluorescence via Microenvironment Engineering with the Assistance of Some Reductive Biomolecules. ACS Applied Materials & Interfaces, 2020, 12, 15919-15927.	4.0	96
31	A sensitive electrochemical sensor for bisphenol A on the basis of the AuPd incorporated carboxylic multi-walled carbon nanotubes. Food Chemistry, 2019, 292, 253-259.	4.2	95
32	Photoinduced Charge Separation via the Double-Electron Transfer Mechanism in Nitrogen Vacancies g-C₃N₅/BiOBr for the Photoelectrochemical Nitrogen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 38266-38274.	4.0	94
33	A double signal electrochemical human immunoglobulin G immunosensor based on gold nanoparticles-polydopamine functionalized reduced graphene oxide as a sensor platform and AgNPs/carbon nanocomposite as signal probe and catalytic substrate. Biosensors and Bioelectronics, 2016, 77, 1078-1085.	5.3	93
34	Synergistic Electrocatalytic Nitrogen Reduction Enabled by Confinement of Nanosized Au Particles onto a Two-Dimensional Ti₃C₂ Substrate. ACS Applied Materials & Interfaces, 2019, 11, 25758-25765.	4.0	92
35	Hairpin DNA Switch for Ultrasensitive Spectrophotometric Detection of DNA Hybridization Based on Gold Nanoparticles and Enzyme Signal Amplification. Analytical Chemistry, 2010, 82, 6440-6446.	3.2	90
36	Ti3C2/Cu2O heterostructure based signal-off photoelectrochemical sensor for high sensitivity detection of glucose. Biosensors and Bioelectronics, 2019, 142, 111535.	5.3	90

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37	A facile and simple method for synthesis of graphene oxide quantum dots from black carbon. Green Chemistry, 2017, 19, 900-904.	4.6	87
38	Hydroxyl-rich C-dots synthesized by a one-pot method and their application in the preparation of noble metal nanoparticles. Chemical Communications, 2015, 51, 7164-7167.	2.2	86
39	Water-dispersible silicon dots as a peroxidase mimetic for the highly-sensitive colorimetric detection of glucose. Chemical Communications, 2014, 50, 6771-6774.	2.2	85
40	Onâ€“offâ€“on fluorescent silicon nanoparticles for recognition of chromium(VI) and hydrogen sulfide based on the inner filter effect. Sensors and Actuators B: Chemical, 2017, 238, 196-203.	4.0	84
41	Sensitive fluorescent detection of H2O2 and glucose in human serum based on inner filter effect of squaric acid-iron(III) on the fluorescence of upconversion nanoparticle. Talanta, 2017, 164, 580-587.	2.9	82
42	In vitro study on the individual and synergistic cytotoxicity of adriamycin and selenium nanoparticles against Bel7402 cells with a quartz crystal microbalance. Biosensors and Bioelectronics, 2009, 24, 2268-2272.	5.3	81
43	Improved GFP gene transfection mediated by polyamidoamine dendrimer-functionalized multi-walled carbon nanotubes with high biocompatibility. Colloids and Surfaces B: Biointerfaces, 2011, 84, 206-213.	2.5	81
44	A dual-signal colorimetric and near-infrared fluorescence probe for the detection of exogenous and endogenous hydrogen peroxide in living cells. Sensors and Actuators B: Chemical, 2019, 280, 120-128.	4.0	80
45	Synergetic signal amplification based on electrochemical reduced graphene oxide-ferrocene derivative hybrid and gold nanoparticles as an ultra-sensitive detection platform for bisphenol A. Analytica Chimica Acta, 2015, 853, 249-257.	2.6	78
46	Direct Quantification and Visualization of Homocysteine, Cysteine, and Glutathione in Alzheimerâ€™s and Parkinsonâ€™s Disease Model Tissues. Analytical Chemistry, 2021, 93, 9878-9886.	3.2	77
47	Self-Catalyzed Surface Reaction-Induced Fluorescence Resonance Energy Transfer on Cysteine-Stabilized MnO₂ Quantum Dots for Selective Detection of Dopamine. Analytical Chemistry, 2021, 93, 3586-3593.	3.2	74
48	An ESIPT-based fluorescent probe for highly selective and ratiometric detection of mercury(<scp>ii</scp>) in solution and in cells. Analyst, The, 2015, 140, 2778-2784.	1.7	71
49	Graphitic carbon nitride nanodots: As reductant for the synthesis of silver nanoparticles and its biothiols biosensing application. Biosensors and Bioelectronics, 2017, 89, 411-416.	5.3	71
50	Glutathione regulation-based dual-functional upconversion sensing-platform for acetylcholinesterase activity and cadmium ions. Biosensors and Bioelectronics, 2017, 87, 545-551.	5.3	70
51	Highly sensitive and selective dopamine biosensor based on a phenylethynyl ferrocene/graphene nanocomposite modified electrode. Analyst, The, 2012, 137, 4577.	1.7	67
52	A novel dual-impedance-analysis EQCM systemâ€”investigation of bovine serum albumin adsorption on gold and platinum electrode surfaces. Journal of Colloid and Interface Science, 2003, 262, 107-115.	5.0	66
53	In situ growth of TiO2 nanowires on Ti3C2 MXenes nanosheets as highly sensitive luminol electrochemiluminescent nanoplatform for glucose detection in fruits, sweat and serum samples. Biosensors and Bioelectronics, 2021, 194, 113600.	5.3	65
54	Au/Metalâ€“Organic Framework Nanocapsules for Electrochemical Determination of Glutathione. ACS Applied Nano Materials, 2021, 4, 4853-4862.	2.4	64

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55	Sensitive detection of rutin with novel ferrocene benzyne derivative modified electrodes. Biosensors and Bioelectronics, 2013, 41, 275-281.	5.3	62
56	Electrochemically prepared oxygen and sulfur co-doped graphitic carbon nitride quantum dots for fluorescence determination of copper and silver ions and biothiols. Analytica Chimica Acta, 2018, 1027, 121-129.	2.6	62
57	Bifunctional colorimetric biosensors via regulation of the dual nanoenzyme activity of carbonized FeCo-ZIF. Sensors and Actuators B: Chemical, 2019, 290, 357-363.	4.0	62
58	Catalytic and peroxidase-like activity of carbon based-AuPd bimetallic nanocomposite produced using carbon dots as the reductant. Analytica Chimica Acta, 2016, 930, 23-30.	2.6	61
59	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K⁺ and pH in Lysosomes. Angewandte Chemie - International Edition, 2021, 60, 5453-5458.	7.2	61
60	An upconversion fluorescence resonance energy transfer nanosensor for one step detection of melamine in raw milk. Talanta, 2015, 136, 47-53.	2.9	58
61	Large scale preparation of graphene quantum dots from graphite oxide in pure water via one-step electrochemical tailoring. RSC Advances, 2015, 5, 29704-29707.	1.7	58
62	Colorimetric detection of ascorbic acid and alkaline phosphatase activity based on the novel oxidase mimetic of Feâ€“Co bimetallic alloy encapsulated porous carbon nanocages. Talanta, 2019, 202, 354-361.	2.9	58
63	Upconversion nanosensor for sensitive fluorescence detection of Sudan Iâ€“IV based on inner filter effect. Talanta, 2016, 148, 129-134.	2.9	56
64	A novel label-free fluorescent sensor for the detection of potassium ion based on DNAzyme. Talanta, 2012, 89, 57-62.	2.9	55
65	Enzymeâ€free Electrochemical Detection of Hydrogen Peroxide Based on the <scp>Threeâ€Dimensional</scp> Flowerâ€like Cuâ€based Metal Organic Frameworks and <scp>MXene</scp> Nanosheets^{â€}. Chinese Journal of Chemistry, 2021, 39, 2181-2187.	2.6	55
66	Biomass-derived oxygen-doped hollow carbon microtubes for electrocatalytic N₂-to-NH₃ fixation under ambient conditions. Chemical Communications, 2019, 55, 2684-2687.	2.2	54
67	Titanium carbide MXenes combined with red-emitting carbon dots as a unique turn-on fluorescent nanosensor for label-free determination of glucose. Journal of Materials Chemistry B, 2019, 7, 7729-7735.	2.9	54
68	Direct optical patterning of perovskite nanocrystals with ligand cross-linkers. Science Advances, 2022, 8, eabm8433.	4.7	54
69	Gold nanoparticle coupled with fluorophore for ultrasensitive detection of protamine and heparin. Talanta, 2013, 116, 951-957.	2.9	53
70	A novel colorimetric and fluorescent probe for simultaneous detection of SO32-/HSO3- and HSO4- by different emission channels and its bioimaging in living cells. Talanta, 2018, 176, 1-7.	2.9	53
71	Characterization of and biomolecule immobilization on the biocompatible multi-walled carbon nanotubes generated by functionalization with polyamidoamine dendrimers. Colloids and Surfaces B: Biointerfaces, 2010, 80, 18-25.	2.5	51
72	Ultrasensitive detection of cancer cells and glycan expression profiling based on a multivalent recognition and alkaline phosphatase-responsive electrogenerated chemiluminescence biosensor. Nanoscale, 2014, 6, 11196-11203.	2.8	51

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73	A novel multiple signal amplifying immunosensor based on the strategy of in situ-produced electroactive substance by ALP and carbon-based Ag-Au bimetallic as the catalyst and signal enhancer. Biosensors and Bioelectronics, 2017, 92, 457-464.	5.3	51
74	Group IV nanodots: Newly emerging properties and application in biomarkers sensing. TrAC - Trends in Analytical Chemistry, 2020, 131, 116007.	5.8	51
75	Polyoxometalate Nanostructures Decorated with CuO Nanoparticles for Sensing Ascorbic Acid and Fe²⁺ Ions. ACS Applied Nano Materials, 2021, 4, 8302-8313.	2.4	51
76	A near-infrared and colorimetric fluorescent probe for palladium detection and bioimaging. Dyes and Pigments, 2017, 137, 293-298.	2.0	50
77	Colorimetric determination of ascorbic acid and the activity of alkaline phosphatase based on the inhibition of the peroxidase-like activity of citric acid-capped Prussian Blue nanocubes. Mikrochimica Acta, 2019, 186, 123.	2.5	49
78	Group IV nanodots: synthesis, surface engineering and application in bioimaging and biotherapy. Journal of Materials Chemistry B, 2020, 8, 10290-10308.	2.9	49
79	Immobilization of Enzymes through One-Pot Chemical Preoxidation and Electropolymerization of Dithiols in Enzyme-Containing Aqueous Suspensions To Develop Biosensors with Improved Performance. Analytical Chemistry, 2008, 80, 5829-5838.	3.2	48
80	â€œTurn on-offâ€•fluorescent sensor for protamine and heparin based on label-free silicon quantum dots coupled with gold nanoparticles. Sensors and Actuators B: Chemical, 2015, 213, 131-138.	4.0	48
81	An ESIPT-based fluorescent probe for the detection of phosgene in the solution and gas phases. Talanta, 2019, 200, 78-83.	2.9	48
82	A novel method for the detection of point mutation in DNA using single-base-coded CdS nanoprobes. Biosensors and Bioelectronics, 2009, 24, 2339-2345.	5.3	47
83	Enzymatic-induced upconversion photoinduced electron transfer for sensing tyrosine in human serum. Biosensors and Bioelectronics, 2016, 77, 957-962.	5.3	47
84	A dual (colorimetric and fluorometric) detection scheme for glutathione and silver (I) based on the oxidase mimicking activity of MnO2 nanosheets. Mikrochimica Acta, 2019, 186, 498.	2.5	46
85	An reagentless glucose biosensor based on direct electrochemistry of glucose oxidase immobilized on poly(methylene blue) doped silica nanocomposites. Sensors and Actuators B: Chemical, 2012, 165, 126-132.	4.0	45
86	A turn-on red-emitting fluorescent probe for determination of copper(II) ions in food samples and living zebrafish. Food Chemistry, 2021, 343, 128513.	4.2	45
87	Sensitive and selective detection of chromium (VI) based on two-dimensional luminescence metal organic framework nanosheets via the mechanism integrating chemical oxidation-reduction and inner filter effect. Journal of Hazardous Materials, 2021, 419, 126443.	6.5	44
88	A new method for characterizing the growth and properties of polyaniline and poly(aniline-co-o-aminophenol) films with the combination of EQCM and in situ FTIR spectroelectrochemisty. Electrochimica Acta, 2006, 52, 342-352.	2.6	43
89	Estimation of pKa values for carboxylic acids, alcohols, phenols and amines using changes in the relative Gibbs free energy. Fluid Phase Equilibria, 2012, 313, 148-155.	1.4	43
90	Simultaneous electrochemical determination of dihydroxybenzene isomers based on the hydrophilic carbon nanoparticles and ferrocene-derivative mediator dual sensitized graphene composite. Electrochimica Acta, 2013, 92, 216-225.	2.6	43

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91	A cyclic signal amplification strategy to fluorescence and colorimetric dual-readout assay for the detection of H2O2-related analytes and application to colorimetric logic gate. Sensors and Actuators B: Chemical, 2018, 260, 908-917.	4.0	43
92	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K + and pH in Lysosomes. Angewandte Chemie, 2021, 133, 5513-5518.	1.6	43
93	Universal Nanoplatform for Formaldehyde Detection Based on the Oxidase-Mimicking Activity of MnO₂ Nanosheets and the In Situ Catalysis-Produced Fluorescence Species. Journal of Agricultural and Food Chemistry, 2021, 69, 7303-7312.	2.4	43
94	Regulation of the Structure of Zirconium-Based Porphyrinic Metalâ€“Organic Framework as Highly Electrochemiluminescence Sensing Platform for Thrombin. Analytical Chemistry, 2022, 94, 5707-5714.	3.2	43
95	Combined quartz crystal impedance and electrochemical impedance measurements during adsorption of bovine serum albumin onto bare and cysteine- or thiophenol-modified gold electrodes. Journal of Electroanalytical Chemistry, 1999, 478, 1-8.	1.9	42
96	Sensitive detection of hydrogen peroxide and nitrite based on silver/carbon nanocomposite synthesized by carbon dots as reductant via one step method. Electrochimica Acta, 2016, 211, 36-43.	2.6	42
97	BSA capped bi-functional fluorescent Cu nanoclusters as pH sensor and selective detection of dopamine. New Journal of Chemistry, 2018, 42, 1446-1456.	1.4	41
98	Silver ions enhanced AuNCs fluorescence as a turn-off nanoprobe for ultrasensitive detection of iodide. Talanta, 2018, 180, 144-149.	2.9	40
99	An electrochemical quartz crystal impedance study on cystine precipitation onto an Au electrode surface during cysteine oxidation in aqueous solution. Journal of Electroanalytical Chemistry, 2000, 484, 41-54.	1.9	39
100	Adsorption of bovine serum albumin and fibrinogen on hydrophilicity-controllable surfaces of polypyrrole doped with dodecyl benzene sulfonateâ€”A combined piezoelectric quartz crystal impedance and electrochemical impedance study. Polymer, 2006, 47, 3372-3381.	1.8	38
101	A simple fluorescent probe for the fast sequential detection of copper and biothiols based on a benzothiazole derivative. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 427-434.	2.0	38
102	A novel fluorescent probe for selective imaging of cellular cysteine with large Stokes shift and high quantum yield. Talanta, 2020, 210, 120612.	2.9	38
103	Development of a thickness shear mode acoustic sensor based on an electrosynthesized molecularly imprinted polymer using an underivatized amino acid as the template. Analyst, The, 2001, 126, 189-194.	1.7	37
104	Study of protein adsorption on polymer coatings surface by combining quartz crystal microbalance with electrochemical impedance methods. Sensors and Actuators B: Chemical, 2005, 108, 933-942.	4.0	37
105	Polyamidoamine dendrimerâ€functionalized carbon nanotubesâ€mediated GFP gene transfection for HeLa cells: Effects of different types of carbon nanotubes. Journal of Biomedical Materials Research - Part A, 2011, 99A, 231-239.	2.1	37
106	Label-free silicon quantum dots as fluorescent probe for selective and sensitive detection of copper ions. Talanta, 2014, 125, 372-377.	2.9	37
107	A ratiometric nanosensor based on conjugated polyelectrolyte-stabilized AgNPs for ultrasensitive fluorescent and colorimetric sensing of melamine. Talanta, 2016, 151, 68-74.	2.9	37
108	An electrochemical sensor for highly sensitive detection of copper ions based on a new molecular probe Pi-A decorated on graphene. Analytical Methods, 2017, 9, 618-624.	1.3	37

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109	Universal Multifunctional Nanoplatform Based on Target-Induced in Situ Promoting Au Seeds Growth to Quench Fluorescence of Upconversion Nanoparticles. ACS Sensors, 2017, 2, 1805-1813.	4.0	37
110	A fluorescent sensor for fast detection of peroxynitrite by removing of C=N in a benzothiazole derivative. Analytica Chimica Acta, 2018, 1014, 71-76.	2.6	37
111	Ambient electrocatalytic N₂ reduction to NH₃ by metal fluorides. Journal of Materials Chemistry A, 2019, 7, 17761-17765.	5.2	37
112	Enhanced electrochemical sensitivity towards acetaminophen determination using electroactive self-assembled ferrocene derivative polymer nanospheres with multi-walled carbon nanotubes. Electrochimica Acta, 2018, 272, 212-220.	2.6	36
113	Study of fibrinogen adsorption on hydroxyapatite and TiO2 surfaces by electrochemical piezoelectric quartz crystal impedance and FTIRâ€“ATR spectroscopy. Analytica Chimica Acta, 2007, 597, 58-66.	2.6	35
114	A novel label-free upconversion fluorescence resonance energy transfer-nanosensor for ultrasensitive detection of protamine and heparin. Analytical Biochemistry, 2015, 477, 28-34.	1.1	35
115	Colorimetric detection of hydrogen peroxide and lactate based on the etching of the carbon based Au-Ag bimetallic nanocomposite synthesized by carbon dots as the reductant and stabilizer. Analytica Chimica Acta, 2016, 947, 23-31.	2.6	35
116	Dynamic measurement of the surface stress induced by the attachment and growth of cells on Au electrode with a quartz crystal microbalance. Biosensors and Bioelectronics, 2009, 24, 1603-1609.	5.3	34
117	Apoferritin protein nanoparticles dually labeled with aptamer and horseradish peroxidase as a sensing probe for thrombin detection. Analytica Chimica Acta, 2013, 759, 53-60.	2.6	34
118	Fluorescence resonance energy transfer aptasensor for platelet-derived growth factor detection based on upconversion nanoparticles in 30% blood serum. Analytical Methods, 2013, 5, 699-704.	1.3	34
119	A dual-emission and mitochondria-targeted fluorescent probe for rapid detection of SO2 derivatives and its imaging in living cells. Talanta, 2019, 191, 428-434.	2.9	34
120	A novel biomimetic nanoenzyme based on ferrocene derivative polymer NPs coated with polydopamine. Talanta, 2019, 195, 265-271.	2.9	34
121	A tetraphenylimidazole-based fluorescent probe for the detection of hydrogen sulfide and its application in living cells. Analytica Chimica Acta, 2015, 879, 85-90.	2.6	33
122	A Comparative Study on the Viscoelasticity and Morphology of Polyaniline Films Galvanostatically Grown on Bare and 4-Aminothiophenol-Modified Gold Electrodes Using an Electrochemical Quartz Crystal Impedance System and SEM.. Analytical Sciences, 2001, 17, 613-620.	0.8	31
123	One-pot electrochemical synthesis of carbon dots/TiO2 nanocomposites with excellent visible light photocatalytic activity. Materials Letters, 2016, 173, 13-17.	1.3	31
124	Silver triangular nanoplates as an high efficiently FRET donor-acceptor of upconversion nanoparticles for ultrasensitive â€œTurn on-offâ€•protamine and trypsin sensor. Talanta, 2017, 174, 148-155.	2.9	31
125	A â€œturn-onâ€•fluorescent sensor for ultrasensitive detection of melamine based on a new fluorescence probe and AuNPs. Analyst, The, 2015, 140, 1155-1160.	1.7	30
126	A dual-signal colorimetric and ratiometric fluorescent nanoprobe for enzymatic determination of uric acid by using silicon nanoparticles. Mikrochimica Acta, 2019, 186, 754.	2.5	30

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127	A specific AIE and ESIPT fluorescent probe for peroxynitrite detection and imaging in living cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 222, 117230.	2.0	30
128	Electrocatalysis of N₂ to NH₃ by HKUSTâ€1 with High NH₃ Yield. Chemistry - an Asian Journal, 2020, 15, 1272-1276.	1.7	30
129	Simultaneous visualization and quantification of copper (II) ions in Alzheimer's disease by a near-infrared fluorescence probe. Biosensors and Bioelectronics, 2022, 198, 113858.	5.3	30
130	Fluorescence Quenching of Bovine Serum Albumin in Reversed Micelles by CdS Nanoparticles. Analytical Sciences, 2004, 20, 441-444.	0.8	29
131	Poly(methylene blue) doped silica nanocomposites with crosslinked cage structure: Electropolymerization, characterization and catalytic activity for reduction of dissolved oxygen. Electrochimica Acta, 2011, 56, 10055-10063.	2.6	29
132	A dual-signal readout sensor for highly sensitive detection of iodide ions in urine based on catalase-like reaction of iodide ions and N-doped C-dots. Sensors and Actuators B: Chemical, 2017, 250, 429-435.	4.0	29
133	A fluorescent probe for the specific detection of cysteine in human serum samples. Analytical Methods, 2019, 11, 3280-3285.	1.3	29
134	In situ monitoring of gold-surface adsorption and acidic denaturation of human serum albumin by an isolation-capacitance-adopted electrochemical quartz crystal impedance system. Analytica Chimica Acta, 2002, 464, 65-77.	2.6	28
135	EQCM and in situ FTIR spectroelectrochemistry study on the electrochemical oxidation of TMB and the effect of large-sized anions. Journal of Electroanalytical Chemistry, 2008, 622, 184-192.	1.9	28
136	A label-free fluorescent molecular switch for Cu2+ based on metal ion-triggered DNA-cleaving DNAzyme and DNA intercalator. New Journal of Chemistry, 2013, 37, 1252.	1.4	28
137	A new turn-on fluorescent sensor based on NBD for highly selective detection of Hg2+ in aqueous media and imaging in live cells. Analytical Methods, 2014, 6, 4797.	1.3	28
138	A simple and reversible fluorescent probe based on NBD for rapid detection of hypochlorite and its application for bioimaging. RSC Advances, 2015, 5, 79519-79524.	1.7	28
139	A dual-response near-infrared fluorescent probe for rapid detecting thiophenol and its application in water samples and bio-imaging. Talanta, 2019, 199, 355-360.	2.9	28
140	A simultaneous electrochemical impedance and quartz crystal microbalance study on antihuman immunoglobulin G adsorption and human immunoglobulin G reaction. Journal of Proteomics, 2005, 62, 191-205.	2.4	27
141	(4-Ferrocenylethyne) Phenylamine Functionalized Graphene Oxide Modified Electrode for Sensitive Nitrite Sensing. Electrochimica Acta, 2014, 116, 504-511.	2.6	27
142	A Novel Fluorescent Biosensor for Detection of Silver Ions Based on Upconversion Nanoparticles. Journal of Fluorescence, 2017, 27, 205-211.	1.3	27
143	A highly sensitive naked-eye fluorescent probe for trace hydrazine based on â€˜C-CNâ€™ bond cleavage. Analyst, The, 2018, 143, 4354-4358.	1.7	27
144	Synergistic electrocatalytic N₂ reduction using a PTCA nanorodâ€“rGO hybrid. Journal of Materials Chemistry A, 2019, 7, 12446-12450.	5.2	27

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145	Molecular structure regulation and enzyme cascade signal amplification strategy for upconversion ratiometric luminescent and colorimetric alkaline phosphatase detection. Analytica Chimica Acta, 2019, 1051, 160-168.	2.6	27
146	Fluorometric and Colorimetric Dual-Readout Assay for Histone Demethylase Activity Based on Formaldehyde Inhibition of Ag⁺-Triggered Oxidation of O-Phenylenediamine. Analytical Chemistry, 2020, 92, 9421-9428.	3.2	27
147	A â€˜â€˜naked-eyeâ€™â€™ colorimetric and ratiometric fluorescence probe for trace hydrazine. Analytical Methods, 2019, 11, 2591-2596.	1.3	26
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149	Visualization of endogenous Î²-galactosidase activity in living cells and zebrafish with a turn-on near-infrared fluorescent probe. Talanta, 2020, 217, 121098.	2.9	26
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