Xiaolin Huang

List of Publications by Year
in descending order

93 papers	5,472 citations	66234 42 h-index	85405 71 g-index
93 all docs	93 docs citations	93 times ranked	5387 citing authors

#	Article	IF	Citations
1	Ratiometric optical nanoprobes enable accurate molecular detection and imaging. Chemical Society Reviews, 2018, 47, 2873-2920.	18.7	579
2	Membrane-based lateral flow immunochromatographic strip with nanoparticles as reporters for detection: A review. Biosensors and Bioelectronics, 2016, 75, 166-180.	5.3	394
3	Immunochromatographic Assay for Ultrasensitive Detection of Aflatoxin B₁ in Maize by Highly Luminescent Quantum Dot Beads. ACS Applied Materials & Interfaces, 2014, 6, 14215-14222.	4.0	230
4	Supramolecular Polymer-Based Nanomedicine: High Therapeutic Performance and Negligible Long-Term Immunotoxicity. Journal of the American Chemical Society, 2018, 140, 8005-8019.	6.6	227
5	Manipulating Intratumoral Fenton Chemistry for Enhanced Chemodynamic and Chemodynamicâ€Synergized Multimodal Therapy. Advanced Materials, 2021, 33, e2104223.	11.1	210
6	Nanotechnology-Enhanced No-Wash Biosensors for in Vitro Diagnostics of Cancer. ACS Nano, 2017, 11, 5238-5292.	7.3	208
7	A Catalaseâ€Like Metalâ€Organic Framework Nanohybrid for O₂â€Evolving Synergistic Chemoradiotherapy. Angewandte Chemie - International Edition, 2019, 58, 8752-8756.	7.2	154
8	Glutathione-Responsive Self-Assembled Magnetic Gold Nanowreath for Enhanced Tumor Imaging and Imaging-Guided Photothermal Therapy. ACS Nano, 2018, 12, 8129-8137.	7.3	131
9	Magnetic Quantum Dot Nanobead-Based Fluorescent Immunochromatographic Assay for the Highly Sensitive Detection of Aflatoxin B₁ in Dark Soy Sauce. Analytical Chemistry, 2019, 91, 4727-4734.	3.2	108
10	Multicolor quantum dot nanobeads for simultaneous multiplex immunochromatographic detection of mycotoxins in maize. Sensors and Actuators B: Chemical, 2019, 291, 411-417.	4.0	107
11	Hybrid Nanomedicine Fabricated from Photosensitizerâ€Terminated Metalâ€“Organic Framework Nanoparticles for Photodynamic Therapy and Hypoxiaâ€Activated Cascade Chemotherapy. Small, 2019, 15, e1804131.	5.2	105
12	Fluorescent Ru(phen)₃²⁺-Doped Silica Nanoparticles-Based ICTS Sensor for Quantitative Detection of Enrofloxacin Residues in Chicken Meat. Analytical Chemistry, 2013, 85, 5120-5128.	3.2	103
13	Point-of-care COVID-19 diagnostics powered by lateral flow assay. TrAC - Trends in Analytical Chemistry, 2021, 145, 116452.	5.8	103
14	Size-Dependent Immunochromatographic Assay with Quantum Dot Nanobeads for Sensitive and Quantitative Detection of Ochratoxin A in Corn. Analytical Chemistry, 2017, 89, 7062-7068.	3.2	102
15	Emerging strategies to enhance the sensitivity of competitive ELISA for detection of chemical contaminants in food samples. TrAC - Trends in Analytical Chemistry, 2020, 126, 115861.	5.8	94
16	Gold nanoparticle-based dynamic light scattering immunoassay for ultrasensitive detection of Listeria monocytogenes in lettuces. Biosensors and Bioelectronics, 2015, 66, 184-190.	5.3	84
17	Emerging design strategies for constructing multiplex lateral flow test strip sensors. Biosensors and Bioelectronics, 2020, 157, 112168.	5.3	84
18	Emerging strategies to develop sensitive AuNP-based ICTS nanosensors. TrAC - Trends in Analytical Chemistry, 2019, 112, 147-160.	5.8	77

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19	â€œThree-in-oneâ€•Nanohybrids as Synergistic Nanoquenchers to Enhance No-Wash Fluorescence Biosensors for Ratiometric Detection of Cancer Biomarkers. Theranostics, 2018, 8, 3461-3473.	4.6	72
20	Dramatically Enhanced Immunochromatographic Assay Using Cascade Signal Amplification for Ultrasensitive Detection of Escherichia coli O157:H7 in Milk. Journal of Agricultural and Food Chemistry, 2020, 68, 1118-1125.	2.4	69
21	â€œThree-in-Oneâ€•Multifunctional Nanohybrids with Colorimetric Magnetic Catalytic Activities to Enhance Immunochromatographic Diagnosis. ACS Nano, 2022, 16, 3351-3361.	7.3	69
22	pHâ€Responsive Torpedoâ€Like Persistent Luminescence Nanoparticles for Autofluorescenceâ€Free Biosensing and Highâ€Level Information Encryption. Angewandte Chemie - International Edition, 2021, 60, 2398-2405.	7.2	68
23	Ultrasensitive fluorescence immunoassay for detection of ochratoxin A using catalase-mediated fluorescence quenching of CdTe QDs. Nanoscale, 2016, 8, 9390-9397.	2.8	66
24	Engineered gold nanoparticles as multicolor labels for simultaneous multi-mycotoxin detection on the immunochromatographic test strip nanosensor. Sensors and Actuators B: Chemical, 2020, 316, 128107.	4.0	63
25	Tailoring noble metal nanoparticle designs to enable sensitive lateral flow immunoassay. Theranostics, 2022, 12, 574-602.	4.6	63
26	Plasmonic Enzyme-Linked Immunosorbent Assay Using Nanospherical Brushes as a Catalase Container for Colorimetric Detection of Ultralow Concentrations of Listeria monocytogenes. ACS Applied Materials & Interfaces, 2015, 7, 28632-28639.	4.0	62
27	Novel fluorescent ELISA for the sensitive detection of zearalenone based on H2O2-sensitive quantum dots for signal transduction. Talanta, 2016, 158, 51-56.	2.9	62
28	Phage-free peptide ELISA for ochratoxin A detection based on biotinylated mimotope as a competing antigen. Talanta, 2016, 146, 394-400.	2.9	62
29	Nanospherical Brush as Catalase Container for Enhancing the Detection Sensitivity of Competitive Plasmonic ELISA. Analytical Chemistry, 2016, 88, 1951-1958.	3.2	61
30	Development of a rapid and sensitive quantum dot nanobead-based double-antigen sandwich lateral flow immunoassay and its clinical performance for the detection of SARS-CoV-2 total antibodies. Sensors and Actuators B: Chemical, 2021, 343, 130139.	4.0	61
31	Multi-branched gold nanoflower-embedded iron porphyrin for colorimetric immunosensor. Biosensors and Bioelectronics, 2018, 102, 9-16.	5.3	60
32	Synchronous Chemoradiation Nanovesicles by Xâ€Ray Triggered Cascade of Drug Release. Angewandte Chemie - International Edition, 2018, 57, 8463-8467.	7.2	59
33	Self-assembled colloidal gold superparticles to enhance the sensitivity of lateral flow immunoassays with sandwich format. Theranostics, 2020, 10, 3737-3748.	4.6	58
34	Effect of different-sized spherical gold nanoparticles grown layer by layer on the sensitivity of an immunochromatographic assay. RSC Advances, 2016, 6, 26178-26185.	1.7	57
35	A novel fluorescence immunoassay for the sensitive detection of Escherichia coli O157:H7 in milk based on catalase-mediated fluorescence quenching of CdTe quantum dots. Analytica Chimica Acta, 2016, 947, 50-57.	2.6	56
36	Biotinâ€“Streptavidin System-Mediated Ratiometric Multiplex Immunochromatographic Assay for Simultaneous and Accurate Quantification of Three Mycotoxins. Journal of Agricultural and Food Chemistry, 2019, 67, 9022-9031.	2.4	56

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37	Fluorescence ELISA for sensitive detection of ochratoxin A based on glucose oxidase-mediated fluorescence quenching of CdTe QDs. Analytica Chimica Acta, 2016, 936, 195-201.	2.6	55
38	Recent advances in colorimetry/fluorimetry-based dual-modal sensing technologies. Biosensors and Bioelectronics, 2021, 190, 113386.	5.3	53
39	Folic Acid Targeting for Efficient Isolation and Detection of Ovarian Cancer CTCs from Human Whole Blood Based on Two-Step Binding Strategy. ACS Applied Materials & Interfaces, 2018, 10, 14055-14062.	4.0	52
40	Ru(phen)32+ doped silica nanoparticle based immunochromatographic strip for rapid quantitative detection of Î²-agonist residues in swine urine. Talanta, 2013, 114, 160-166.	2.9	51
41	Supramolecular Recognitionâ€Mediated Layerâ€byâ€Layer Selfâ€Assembled Gold Nanoparticles for Customized Sensitivity in Paperâ€Based Strip Nanobiosensors. Small, 2019, 15, e1903861.	5.2	47
42	Cancer cell discrimination and dynamic viability monitoring through wash-free bioimaging using AIEgens. Chemical Science, 2020, 11, 7676-7684.	3.7	45
43	Plasmonic ELISA for naked-eye detection of ochratoxin A based on the tyramine-H2O2 amplification system. Sensors and Actuators B: Chemical, 2018, 259, 162-169.	4.0	42
44	Ensuring food safety using fluorescent nanoparticles-based immunochromatographic test strips. Trends in Food Science and Technology, 2021, 118, 658-678.	7.8	41
45	Two-step large-volume magnetic separation combined with PCR assay for sensitive detection of Listeria monocytogenes in pasteurized milk. Journal of Dairy Science, 2017, 100, 7883-7890.	1.4	39
46	AIEgens: An emerging fluorescent sensing tool to aid food safety and quality control. Comprehensive Reviews in Food Science and Food Safety, 2020, 19, 2297-2329.	5.9	39
47	Urease-induced metallization of gold nanorods for the sensitive detection of Salmonella enterica Choleraesuis through colorimetric ELISA. Journal of Dairy Science, 2019, 102, 1997-2007.	1.4	37
48	A novel magneto-gold nanohybrid-enhanced lateral flow immunoassay for ultrasensitive and rapid detection of ochratoxin A in grape juice. Food Chemistry, 2021, 336, 127710.	4.2	37
49	Effect of the tip length of multi-branched AuNFs on the detection performance of immunochromatographic assays. Analytical Methods, 2016, 8, 3316-3324.	1.3	36
50	Direct competitive ELISA enhanced by dynamic light scattering for the ultrasensitive detection of aflatoxin B1 in corn samples. Food Chemistry, 2021, 342, 128327.	4.2	36
51	Ultrasensitive direct competitive FLISA using highly luminescent quantum dot beads for tuning affinity of competing antigens to antibodies. Analytica Chimica Acta, 2017, 972, 94-101.	2.6	34
52	A Catalaseâ€Like Metalâ€Organic Framework Nanohybrid for O₂â€Evolving Synergistic Chemoradiotherapy. Angewandte Chemie, 2019, 131, 8844-8848.	1.6	33
53	Coreâ€“Shellâ€Heterostructured Magneticâ€“Plasmonic Nanoassemblies with Highly Retained Magneticâ€“Plasmonic Activities for Ultrasensitive Bioanalysis in Complex Matrix. Advanced Science, 2020, 7, 1902433.	5.6	31
54	Controlled copper in situ growth-amplified lateral flow sensors for sensitive, reliable, and field-deployable infectious disease diagnostics. Biosensors and Bioelectronics, 2021, 171, 112753.	5.3	29

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55	Fluorescence ELISA based on CAT-regulated fluorescence quenching of CdTe QDs for sensitive detection of FB₁. Analytical Methods, 2018, 10, 5797-5802.	1.3	28
56	Gold Nanoflower-Enhanced Dynamic Light Scattering Immunosensor for the Ultrasensitive No-Wash Detection of Escherichia coli O157:H7 in Milk. Journal of Agricultural and Food Chemistry, 2019, 67, 9104-9111.	2.4	28
57	Controllable self-assembled plasmonic vesicle-based three-dimensional SERS platform for picomolar detection of hydrophobic contaminants. Nanoscale, 2018, 10, 13202-13211.	2.8	25
58	Wash-free detection and bioimaging by AIEgens. Materials Chemistry Frontiers, 2021, 5, 723-743.	3.2	25
59	AIEgen for cancer discrimination. Materials Science and Engineering Reports, 2021, 146, 100649.	14.8	23
60	Dual-mode fluorescent and colorimetric immunoassay for the ultrasensitive detection of alpha-fetoprotein in serum samples. Analytica Chimica Acta, 2018, 1038, 112-119.	2.6	21
61	Quantum bead-based fluorescence-linked immunosorbent assay for ultrasensitive detection of aflatoxin M1 in pasteurized milk, yogurt, and milk powder. Journal of Dairy Science, 2019, 102, 3985-3993.	1.4	21
62	Gold nanoparticleâ€“decorated metal organic frameworks on immunochromatographic assay for human chorionic gonadotropin detection. Mikrochimica Acta, 2020, 187, 640.	2.5	21
63	Hydrazide-assisted directional antibody conjugation of gold nanoparticles to enhance immunochromatographic assay. Analytica Chimica Acta, 2021, 1168, 338623.	2.6	20
64	Plasmonic ELISA based on DNA-directed gold nanoparticle growth for Cronobacter detection in powdered infant formula samples. Journal of Dairy Science, 2019, 102, 10877-10886.	1.4	19
65	Natural enzyme-free colorimetric immunoassay for human chorionic gonadotropin detection based on the Ag+-triggered catalytic activity of cetyltrimethylammonium bromide-coated gold nanoparticles. Sensors and Actuators B: Chemical, 2020, 305, 127439.	4.0	18
66	Fluorescence immunoassay based on the enzyme cleaving ss-DNA to regulate the synthesis of histone-ds-poly(AT) templated copper nanoparticles. Nanoscale, 2018, 10, 19890-19897.	2.8	17
67	Integrated magneto-fluorescence nanobeads for ultrasensitive glycoprotein detection using antibody coupled boronate-affinity recognition. Chemical Communications, 2019, 55, 10312-10315.	2.2	17
68	A Gold Growth-Based Plasmonic ELISA for the Sensitive Detection of Fumonisin B1 in Maize. Toxins, 2019, 11, 323.	1.5	17
69	Comparison of three sample addition methods in competitive and sandwich colloidal gold immunochromatographic assay. Analytica Chimica Acta, 2020, 1094, 90-98.	2.6	16
70	Magnetic beads carrying poly(acrylic acid) brushes as â€œnanobody containersâ€• for immunoaffinity purification of aflatoxin B1 from corn samples. RSC Advances, 2015, 5, 77380-77387.	1.7	15
71	Integrated gold superparticles into lateral flow immunoassays for the rapid and sensitive detection of Escherichia coli O157:H7 in milk. Journal of Dairy Science, 2020, 103, 6940-6949.	1.4	15
72	A Universal Boronateâ€Affinity Crosslinkingâ€Amplified Dynamic Light Scattering Immunoassay for Pointâ€ofâ€Care Glycoprotein Detection. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15

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73	pHâ€Responsive Torpedoâ€Like Persistent Luminescence Nanoparticles for Autofluorescenceâ€Free Biosensing and Highâ€Level Information Encryption. Angewandte Chemie, 2021, 133, 2428-2435.	1.6	14
74	Gold Nanobeads with Enhanced Absorbance for Improved Sensitivity in Competitive Lateral Flow Immunoassays. Foods, 2021, 10, 1488.	1.9	13
75	Dynamic light scattering immunosensor based on metal-organic framework mediated gold growth strategy for the ultra-sensitive detection of alpha-fetoprotein. Sensors and Actuators B: Chemical, 2021, 341, 130030.	4.0	12
76	Eco-Friendly Fluorescent ELISA Based on Bifunctional Phage for Ultrasensitive Detection of Ochratoxin A in Corn. Foods, 2021, 10, 2429.	1.9	12
77	Avoiding the self-nucleation interference: a pH-regulated gold in situ growth strategy to enable ultrasensitive immunochromatographic diagnostics. Theranostics, 2022, 12, 2801-2810.	4.6	12
78	Integrated nanoparticle size with membrane porosity for improved analytical performance in sandwich immunochromatographic assay. Analytica Chimica Acta, 2021, 1141, 136-143.	2.6	10
79	A self-luminous bifunctional bacteria directed fluorescent immunosensor for the simultaneous detection and quantification of three pathogens in milk. Sensors and Actuators B: Chemical, 2021, 338, 129757.	4.0	10
80	Low-sample-consumption and ultrasensitive detection of procalcitonin by boronate affinity recognition-enhanced dynamic light scattering biosensor. Biosensors and Bioelectronics, 2022, 200, 113914.	5.3	9
81	Ultrasensitive dynamic light scattering immunosensing platform for NT-proBNP detection using boronate affinity amplification. Journal of Nanobiotechnology, 2022, 20, 21.	4.2	8
82	Fluorescence immunoassay through histone-ds-poly(AT)-templated copper nanoparticles as signal transductors for the sensitive detection of Salmonella choleraesuis in milk. Journal of Dairy Science, 2019, 102, 6047-6055.	1.4	7
83	Boronate affinity-assisted oriented antibody conjugation on quantum dot nanobeads for improved detection performance in lateral flow immunoassay. Microchemical Journal, 2021, 171, 106822.	2.3	7
84	Oxygen Quenching-Resistant Nanoaggregates with Aggregation-Induced Delayed Fluorescence for Time-Resolved Mapping of Intracellular Microviscosity. ACS Nano, 2022, 16, 6176-6184.	7.3	7
85	Ratiometric Monitoring of Biogenic Amines by a Simple Ammonia-Response Aiegen. Foods, 2022, 11, 932.	1.9	6
86	An amphiphilic-ligand-modified gold nanoflower probe for enhancing the stability of lateral flow immunoassays in dried distillers grains. RSC Advances, 2019, 9, 36670-36679.	1.7	5
87	Covalent organic framework-gold nanoparticle heterostructures amplified dynamic light scattering immunosensor for ultrasensitive detection of NT-proBNP in whole blood. Sensors and Actuators B: Chemical, 2022, 364, 131872.	4.0	5
88	Synchronous Chemoradiation Nanovesicles by Xâ€Ray Triggered Cascade of Drug Release. Angewandte Chemie, 2018, 130, 8599-8603.	1.6	4
89	Hyperbranched Gold Plasmonic Blackbodies Enhanced Immunochromatographic Test Strip for the Sensitive Detection of Aflatoxin B1 in Maize Sample. Food Analytical Methods, 2021, 14, 2017-2025.	1.3	4
90	Light scattering intensity as signal transducer to enhance the performance of immunoassay for Cronobacter detection in powdered infant formula. Sensors and Actuators B: Chemical, 2021, 344, 130312.	4.0	4

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91	Magneticâ€“Plasmonic Nanoassemblies: Coreâ€“Shellâ€Heterostructured Magneticâ€“Plasmonic Nanoassemblies with Highly Retained Magneticâ€“Plasmonic Activities for Ultrasensitive Bioanalysis in Complex Matrix (Adv. Sci. 2/2020). Advanced Science, 2020, 7, 2070011.	5.6	1
92	Amphiphilic ligand modified gold nanocarriers to amplify lanthanide loading for ultrasensitive DELFIA detection ofCronobacter. Analyst, The, 2020, 145, 249-256.	1.7	0
93	A Universal Boronateâ€Affinity Crosslinkingâ€Amplified Dynamic Light Scattering Immunoassay for Pointâ€ofâ€Care Glycoprotein Detection. Angewandte Chemie, 2022, 134, .	1.6	0