

Xiaolin Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

3,328

citations

32

h-index

56

g-index

93

ext. papers

4,370

ext. citations

9.5

avg, IF

5.83

L-index

#	Paper	IF	Citations
88	Ultrasensitive dynamic light scattering immunosensing platform for NT-proBNP detection using boronate affinity amplification.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 21	9.4	1
87	"Three-in-One" Multifunctional Nanohybrids with Colorimetric Magnetic Catalytic Activities to Enhance Immunochromatographic Diagnosis.. <i>ACS Nano</i> , 2022 ,	16.7	10
86	Tailoring noble metal nanoparticle designs to enable sensitive lateral flow immunoassay.. <i>Theranostics</i> , 2022 , 12, 574-602	12.1	5
85	Avoiding the self-nucleation interference: a pH-regulated gold growth strategy to enable ultrasensitive immunochromatographic diagnostics.. <i>Theranostics</i> , 2022 , 12, 2801-2810	12.1	1
84	Covalent organic framework-gold nanoparticle heterostructures amplified dynamic light scattering immunosensor for ultrasensitive detection of NT-proBNP in whole blood. <i>Sensors and Actuators B: Chemical</i> , 2022 , 364, 131872	8.5	0
83	AI Egen for cancer discrimination. <i>Materials Science and Engineering Reports</i> , 2021 , 146, 100649	30.9	3
82	Low-sample-consumption and ultrasensitive detection of procalcitonin by boronate affinity recognition-enhanced dynamic light scattering biosensor.. <i>Biosensors and Bioelectronics</i> , 2021 , 200, 113914 ^{11.8}	11.8	1
81	Point-of-care COVID-19 diagnostics powered by lateral flow assay. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 145, 116452	14.6	17
80	Ensuring food safety using fluorescent nanoparticles-based immunochromatographic test strips. <i>Trends in Food Science and Technology</i> , 2021 , 118, 658-658	15.3	9
79	Hyperbranched Gold Plasmonic Blackbodies Enhanced Immunochromatographic Test Strip for the Sensitive Detection of Aflatoxin B1 in Maize Sample. <i>Food Analytical Methods</i> , 2021 , 14, 2017-2025	3.4	2
78	Gold Nanobeads with Enhanced Absorbance for Improved Sensitivity in Competitive Lateral Flow Immunoassays. <i>Foods</i> , 2021 , 10,	4.9	4
77	A self-luminous bifunctional bacteria directed fluorescent immunosensor for the simultaneous detection and quantification of three pathogens in milk. <i>Sensors and Actuators B: Chemical</i> , 2021 , 338, 129757	8.5	1
76	Hydrazide-assisted directional antibody conjugation of gold nanoparticles to enhance immunochromatographic assay. <i>Analytica Chimica Acta</i> , 2021 , 1168, 338623	6.6	3
75	A novel magneto-gold nanohybrid-enhanced lateral flow immunoassay for ultrasensitive and rapid detection of ochratoxin A in grape juice. <i>Food Chemistry</i> , 2021 , 336, 127710	8.5	13
74	pH-Responsive Torpedo-Like Persistent Luminescence Nanoparticles for Autofluorescence-Free Biosensing and High-Level Information Encryption. <i>Angewandte Chemie</i> , 2021 , 133, 2428-2435	3.6	13
73	pH-Responsive Torpedo-Like Persistent Luminescence Nanoparticles for Autofluorescence-Free Biosensing and High-Level Information Encryption. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2398-2405	16.4	23
72	Integrated nanoparticle size with membrane porosity for improved analytical performance in sandwich immunochromatographic assay. <i>Analytica Chimica Acta</i> , 2021 , 1141, 136-143	6.6	4

71	Direct competitive ELISA enhanced by dynamic light scattering for the ultrasensitive detection of aflatoxin B in corn samples. <i>Food Chemistry</i> , 2021 , 342, 128327	8.5	14
70	Controlled copper in situ growth-amplified lateral flow sensors for sensitive, reliable, and field-deployable infectious disease diagnostics. <i>Biosensors and Bioelectronics</i> , 2021 , 171, 112753	11.8	11
69	Wash-free detection and bioimaging by AIEgens. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 723-743	7.8	10
68	Dynamic light scattering immunosensor based on metal-organic framework mediated gold growth strategy for the ultra-sensitive detection of alpha-fetoprotein. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 130030	8.5	2
67	Manipulating Intratumoral Fenton Chemistry for Enhanced Chemodynamic and Chemodynamic-Synergized Multimodal Therapy. <i>Advanced Materials</i> , 2021 , 33, e2104223	24	30
66	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. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130139	8.5	9
65	Recent advances in colorimetry/fluorimetry-based dual-modal sensing technologies. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113386	11.8	12
64	Light scattering intensity as signal transducer to enhance the performance of immunoassay for Cronobacter detection in powdered infant formula. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130312	8.5	1
63	Boronate affinity-assisted oriented antibody conjugation on quantum dot nanobeads for improved detection performance in lateral flow immunoassay. <i>Microchemical Journal</i> , 2021 , 171, 106822	4.8	0
62	Gold nanoparticle-decorated metal organic frameworks on immunochromatographic assay for human chorionic gonadotropin detection. <i>Mikrochimica Acta</i> , 2020 , 187, 640	5.8	7
61	Emerging strategies to enhance the sensitivity of competitive ELISA for detection of chemical contaminants in food samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 126, 115861	14.6	32
60	AIEgens: An emerging fluorescent sensing tool to aid food safety and quality control. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 2297-2329	16.4	10
59	Self-assembled colloidal gold superparticles to enhance the sensitivity of lateral flow immunoassays with sandwich format. <i>Theranostics</i> , 2020 , 10, 3737-3748	12.1	27
58	Magnetic Plasmonic Nanoassemblies: Core-Shell-Heterostructured Magnetic Plasmonic Nanoassemblies with Highly Retained Magnetic Plasmonic Activities for Ultrasensitive Bioanalysis in Complex Matrix (Adv. Sci. 2/2020). <i>Advanced Science</i> , 2020 , 7, 2070011	13.6	1
57	Engineered gold nanoparticles as multicolor labels for simultaneous multi-mycotoxin detection on the immunochromatographic test strip nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128107	8.5	31
56	Cancer cell discrimination and dynamic viability monitoring through wash-free bioimaging using AIEgens. <i>Chemical Science</i> , 2020 , 11, 7676-7684	9.4	26
55	Emerging design strategies for constructing multiplex lateral flow test strip sensors. <i>Biosensors and Bioelectronics</i> , 2020 , 157, 112168	11.8	40
54	Integrated gold superparticles into lateral flow immunoassays for the rapid and sensitive detection of Escherichia coli O157:H7 in milk. <i>Journal of Dairy Science</i> , 2020 , 103, 6940-6949	4	9

53	Core-Shell-Heterostructured Magnetic-Plasmonic Nanoassemblies with Highly Retained Magnetic-Plasmonic Activities for Ultrasensitive Bioanalysis in Complex Matrix. <i>Advanced Science</i> , 2020 , 7, 1902433	13.6	16
52	Natural enzyme-free colorimetric immunoassay for human chorionic gonadotropin detection based on the Ag ⁺ -triggered catalytic activity of cetyltrimethylammonium bromide-coated gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127439	8.5	14
51	Dramatically Enhanced Immunochromatographic Assay Using Cascade Signal Amplification for Ultrasensitive Detection of O157:H7 in Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 1118-1125	17.5	40
50	Comparison of three sample addition methods in competitive and sandwich colloidal gold immunochromatographic assay. <i>Analytica Chimica Acta</i> , 2020 , 1094, 90-98	6.6	8
49	Emerging strategies to develop sensitive AuNP-based ICTS nanosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 112, 147-160	14.6	50
48	Fluorescence immunoassay through histone-ds-poly(AT)-templated copper nanoparticles as signal transducers for the sensitive detection of Salmonella choleraesuis in milk. <i>Journal of Dairy Science</i> , 2019 , 102, 6047-6055	4	7
47	Multicolor quantum dot nanobeads for simultaneous multiplex immunochromatographic detection of mycotoxins in maize. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 411-417	8.5	68
46	A Catalase-Like Metal-Organic Framework Nanohybrid for O ₂ -Evolving Synergistic Chemoradiotherapy. <i>Angewandte Chemie</i> , 2019 , 131, 8844-8848	3.6	22
45	A Catalase-Like Metal-Organic Framework Nanohybrid for O ₂ -Evolving Synergistic Chemoradiotherapy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8752-8756	16.4	88
44	Magnetic Quantum Dot Nanobead-Based Fluorescent Immunochromatographic Assay for the Highly Sensitive Detection of Aflatoxin B in Dark Soy Sauce. <i>Analytical Chemistry</i> , 2019 , 91, 4727-4734	7.8	72
43	Quantum bead-based fluorescence-linked immunosorbent assay for ultrasensitive detection of aflatoxin M in pasteurized milk, yogurt, and milk powder. <i>Journal of Dairy Science</i> , 2019 , 102, 3985-3993	4	13
42	Integrated magneto-fluorescence nanobeads for ultrasensitive glycoprotein detection using antibody coupled boronate-affinity recognition. <i>Chemical Communications</i> , 2019 , 55, 10312-10315	5.8	8
41	Gold Nanoflower-Enhanced Dynamic Light Scattering Immunosensor for the Ultrasensitive No-Wash Detection of O157:H7 in Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 9104-9111	5.7	16
40	Biotin-Streptavidin System-Mediated Ratiometric Multiplex Immunochromatographic Assay for Simultaneous and Accurate Quantification of Three Mycotoxins. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 9022-9031	5.7	32
39	A Gold Growth-Based Plasmonic ELISA for the Sensitive Detection of Fumonisin B in Maize. <i>Toxins</i> , 2019 , 11,	4.9	13
38	Amphiphilic ligand modified gold nanocarriers to amplify lanthanide loading for ultrasensitive DELFIA detection of Cronobacter. <i>Analyst, The</i> , 2019 , 145, 249-256	5	
37	Supramolecular Recognition-Mediated Layer-by-Layer Self-Assembled Gold Nanoparticles for Customized Sensitivity in Paper-Based Strip Nanobiosensors. <i>Small</i> , 2019 , 15, e1903861	11	19
36	Plasmonic ELISA based on DNA-directed gold nanoparticle growth for Cronobacter detection in powdered infant formula samples. <i>Journal of Dairy Science</i> , 2019 , 102, 10877-10886	4	14

35	An amphiphilic-ligand-modified gold nanoflower probe for enhancing the stability of lateral flow immunoassays in dried distillers grains.. <i>RSC Advances</i> , 2019 , 9, 36670-36679	3.7	3
34	Hybrid Nanomedicine Fabricated from Photosensitizer-Terminated Metal-Organic Framework Nanoparticles for Photodynamic Therapy and Hypoxia-Activated Cascade Chemotherapy. <i>Small</i> , 2019 , 15, e1804131	11	84
33	Urease-induced metallization of gold nanorods for the sensitive detection of Salmonella enterica Choleraesuis through colorimetric ELISA. <i>Journal of Dairy Science</i> , 2019 , 102, 1997-2007	4	26
32	Folic Acid Targeting for Efficient Isolation and Detection of Ovarian Cancer CTCs from Human Whole Blood Based on Two-Step Binding Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14035-14062	8.5	39
31	Ratiometric optical nanoprobe enable accurate molecular detection and imaging. <i>Chemical Society Reviews</i> , 2018 , 47, 2873-2920	58.5	394
30	Multi-branched gold nanoflower-embedded iron porphyrin for colorimetric immunosensor. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 9-16	11.8	45
29	"Three-in-one" Nanohybrids as Synergistic Nanoquenchers to Enhance No-Wash Fluorescence Biosensors for Ratiometric Detection of Cancer Biomarkers. <i>Theranostics</i> , 2018 , 8, 3461-3473	12.1	51
28	Glutathione-Responsive Self-Assembled Magnetic Gold Nanowreath for Enhanced Tumor Imaging and Imaging-Guided Photothermal Therapy. <i>ACS Nano</i> , 2018 , 12, 8129-8137	16.7	95
27	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8463-8467	16.4	42
26	Supramolecular Polymer-Based Nanomedicine: High Therapeutic Performance and Negligible Long-Term Immunotoxicity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8005-8019	16.4	168
25	Controllable self-assembled plasmonic vesicle-based three-dimensional SERS platform for picomolar detection of hydrophobic contaminants. <i>Nanoscale</i> , 2018 , 10, 13202-13211	7.7	18
24	Plasmonic ELISA for naked-eye detection of ochratoxin A based on the tyramine-H ₂ O ₂ amplification system. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 162-169	8.5	33
23	Fluorescence ELISA based on CAT-regulated fluorescence quenching of CdTe QDs for sensitive detection of FB1. <i>Analytical Methods</i> , 2018 , 10, 5797-5802	3.2	18
22	Fluorescence immunoassay based on the enzyme cleaving ss-DNA to regulate the synthesis of histone-ds-poly(AT) templated copper nanoparticles. <i>Nanoscale</i> , 2018 , 10, 19890-19897	7.7	15
21	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie</i> , 2018 , 130, 8599-8603	3.6	4
20	Dual-mode fluorescent and colorimetric immunoassay for the ultrasensitive detection of alpha-fetoprotein in serum samples. <i>Analytica Chimica Acta</i> , 2018 , 1038, 112-119	6.6	14
19	Ultrasensitive direct competitive FLISA using highly luminescent quantum dot beads for tuning affinity of competing antigens to antibodies. <i>Analytica Chimica Acta</i> , 2017 , 972, 94-101	6.6	27
18	Nanotechnology-Enhanced No-Wash Biosensors for in Vitro Diagnostics of Cancer. <i>ACS Nano</i> , 2017 , 11, 5238-5292	16.7	156

17	Size-Dependent Immunochromatographic Assay with Quantum Dot Nanobeads for Sensitive and Quantitative Detection of Ochratoxin A in Corn. <i>Analytical Chemistry</i> , 2017 , 89, 7062-7068	7.8	76
16	Two-step large-volume magnetic separation combined with PCR assay for sensitive detection of <i>Listeria monocytogenes</i> in pasteurized milk. <i>Journal of Dairy Science</i> , 2017 , 100, 7883-7890	4	30
15	Phage-free peptide ELISA for ochratoxin A detection based on biotinylated mimotope as a competing antigen. <i>Talanta</i> , 2016 , 146, 394-400	6.2	44
14	Membrane-based lateral flow immunochromatographic strip with nanoparticles as reporters for detection: A review. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 166-80	11.8	302
13	A novel fluorescence immunoassay for the sensitive detection of <i>Escherichia coli</i> O157:H7 in milk based on catalase-mediated fluorescence quenching of CdTe quantum dots. <i>Analytica Chimica Acta</i> , 2016 , 947, 50-57	6.6	47
12	Novel fluorescent ELISA for the sensitive detection of zearalenone based on H ₂ O ₂ -sensitive quantum dots for signal transduction. <i>Talanta</i> , 2016 , 158, 51-56	6.2	46
11	Nanospherical Brush as Catalase Container for Enhancing the Detection Sensitivity of Competitive Plasmonic ELISA. <i>Analytical Chemistry</i> , 2016 , 88, 1951-8	7.8	54
10	Effect of the tip length of multi-branched AuNFs on the detection performance of immunochromatographic assays. <i>Analytical Methods</i> , 2016 , 8, 3316-3324	3.2	20
9	Effect of different-sized spherical gold nanoparticles grown layer by layer on the sensitivity of an immunochromatographic assay. <i>RSC Advances</i> , 2016 , 6, 26178-26185	3.7	40
8	Fluorescence ELISA for sensitive detection of ochratoxin A based on glucose oxidase-mediated fluorescence quenching of CdTe QDs. <i>Analytica Chimica Acta</i> , 2016 , 936, 195-201	6.6	41
7	Ultrasensitive fluorescence immunoassay for detection of ochratoxin A using catalase-mediated fluorescence quenching of CdTe QDs. <i>Nanoscale</i> , 2016 , 8, 9390-7	7.7	52
6	Magnetic beads carrying poly(acrylic acid) brushes as nanobody containers for immunoaffinity purification of aflatoxin B ₁ from corn samples. <i>RSC Advances</i> , 2015 , 5, 77380-77387	3.7	14
5	Gold nanoparticle-based dynamic light scattering immunoassay for ultrasensitive detection of <i>Listeria monocytogenes</i> in lettuces. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 184-90	11.8	64
4	Plasmonic Enzyme-Linked Immunosorbent Assay Using Nanospherical Brushes as a Catalase Container for Colorimetric Detection of Ultralow Concentrations of <i>Listeria monocytogenes</i> . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28632-9	9.5	53
3	Immunochromatographic assay for ultrasensitive detection of aflatoxin B ₁ in maize by highly luminescent quantum dot beads. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14215-22	9.5	193
2	Ru(phen) ₃ (2+) doped silica nanoparticle based immunochromatographic strip for rapid quantitative detection of agonist residues in swine urine. <i>Talanta</i> , 2013 , 114, 160-6	6.2	44
1	Fluorescent Ru(phen) ₃ (2+)-doped silica nanoparticles-based ICTS sensor for quantitative detection of enrofloxacin residues in chicken meat. <i>Analytical Chemistry</i> , 2013 , 85, 5120-8	7.8	91