

Xiaolin Huang

List of Publications by Year in descending order

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97
papers

5,095
citations

71102

41
h-index

91884

69
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all docs

98
docs citations

98
times ranked

5075
citing authors

#	ARTICLE	IF	CITATIONS
1	Ratiometric optical nanoprobe enable accurate molecular detection and imaging. <i>Chemical Society Reviews</i> , 2018, 47, 2873-2920.	38.1	579
2	Membrane-based lateral flow immunochromatographic strip with nanoparticles as reporters for detection: A review. <i>Biosensors and Bioelectronics</i> , 2016, 75, 166-180.	10.1	394
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, 14215-14222.	8.0	230
4	Supramolecular Polymer-Based Nanomedicine: High Therapeutic Performance and Negligible Long-Term Immunotoxicity. <i>Journal of the American Chemical Society</i> , 2018, 140, 8005-8019.	13.7	227
5	Nanotechnology-Enhanced No-Wash Biosensors for <i>in Vitro</i> Diagnostics of Cancer. <i>ACS Nano</i> , 2017, 11, 5238-5292.	14.6	208
6	Glutathione-Responsive Self-Assembled Magnetic Gold Nanowreath for Enhanced Tumor Imaging and Imaging-Guided Photothermal Therapy. <i>ACS Nano</i> , 2018, 12, 8129-8137.	14.6	131
7	Magnetic Quantum Dot Nanobead-Based Fluorescent Immunochromatographic Assay for the Highly Sensitive Detection of Aflatoxin B ₁ in Dark Soy Sauce. <i>Analytical Chemistry</i> , 2019, 91, 4727-4734.	6.5	108
8	Multicolor quantum dot nanobeads for simultaneous multiplex immunochromatographic detection of mycotoxins in maize. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 411-417.	7.8	107
9	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, 5120-5128.	6.5	103
10	Point-of-care COVID-19 diagnostics powered by lateral flow assay. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 145, 116452.	11.4	103
11	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.	6.5	102
12	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.	11.4	94
13	Large-volume immunomagnetic separation combined with multiplex PCR assay for simultaneous detection of <i>Listeria monocytogenes</i> and <i>Listeria ivanovii</i> in lettuce. <i>Food Control</i> , 2016, 59, 601-608.	5.5	89
14	Gold nanoparticle-based dynamic light scattering immunoassay for ultrasensitive detection of <i>Listeria monocytogenes</i> in lettuces. <i>Biosensors and Bioelectronics</i> , 2015, 66, 184-190.	10.1	84
15	Emerging design strategies for constructing multiplex lateral flow test strip sensors. <i>Biosensors and Bioelectronics</i> , 2020, 157, 112168.	10.1	84
16	Emerging strategies to develop sensitive AuNP-based ICTS nanosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 112, 147-160.	11.4	77
17	“Three-in-one” Nanohybrids as Synergistic Nanoquencher to Enhance No-Wash Fluorescence Biosensors for Ratiometric Detection of Cancer Biomarkers. <i>Theranostics</i> , 2018, 8, 3461-3473.	10.0	72
18	Dramatically Enhanced Immunochromatographic Assay Using Cascade Signal Amplification for Ultrasensitive Detection of <i>Escherichia coli</i> O157:H7 in Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1118-1125.	5.2	69

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19	“Three-in-One” Multifunctional Nanohybrids with Colorimetric Magnetic Catalytic Activities to Enhance Immunochromatographic Diagnosis. <i>ACS Nano</i> , 2022, 16, 3351-3361.	14.6	69
20	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.	13.8	68
21	Ultrasensitive fluorescence immunoassay for detection of ochratoxin A using catalase-mediated fluorescence quenching of CdTe QDs. <i>Nanoscale</i> , 2016, 8, 9390-9397.	5.6	66
22	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.	7.8	63
23	Tailoring noble metal nanoparticle designs to enable sensitive lateral flow immunoassay. <i>Theranostics</i> , 2022, 12, 574-602.	10.0	63
24	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, 28632-28639.	8.0	62
25	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.	5.5	62
26	Phage-free peptide ELISA for ochratoxin A detection based on biotinylated mimotope as a competing antigen. <i>Talanta</i> , 2016, 146, 394-400.	5.5	62
27	Nanospherical Brush as Catalase Container for Enhancing the Detection Sensitivity of Competitive Plasmonic ELISA. <i>Analytical Chemistry</i> , 2016, 88, 1951-1958.	6.5	61
28	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.	7.8	61
29	Multi-branched gold nanoflower-embedded iron porphyrin for colorimetric immunosensor. <i>Biosensors and Bioelectronics</i> , 2018, 102, 9-16.	10.1	60
30	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8463-8467.	13.8	59
31	Self-assembled colloidal gold superparticles to enhance the sensitivity of lateral flow immunoassays with sandwich format. <i>Theranostics</i> , 2020, 10, 3737-3748.	10.0	58
32	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.	3.6	57
33	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.	5.4	56
34	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.	5.2	56
35	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.	5.4	55
36	Recent advances in colorimetry/fluorimetry-based dual-modal sensing technologies. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113386.	10.1	53

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37	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, 14055-14062.	8.0	52
38	Ru(phen) ₃ ²⁺ doped silica nanoparticle based immunochromatographic strip for rapid quantitative detection of β -agonist residues in swine urine. <i>Talanta</i> , 2013, 114, 160-166.	5.5	51
39	Supramolecular Recognition-Mediated Layer-by-Layer Self-Assembled Gold Nanoparticles for Customized Sensitivity in Paper-Based Strip Nanobiosensors. <i>Small</i> , 2019, 15, e1903861.	10.0	47
40	Cancer cell discrimination and dynamic viability monitoring through wash-free bioimaging using AIEgens. <i>Chemical Science</i> , 2020, 11, 7676-7684.	7.4	45
41	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.	7.8	42
42	Ensuring food safety using fluorescent nanoparticles-based immunochromatographic test strips. <i>Trends in Food Science and Technology</i> , 2021, 118, 658-678.	15.1	41
43	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.	3.4	39
44	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.	11.7	39
45	Urease-induced metallization of gold nanorods for the sensitive detection of <i>Salmonella enterica</i> <i>Choleraesuis</i> through colorimetric ELISA. <i>Journal of Dairy Science</i> , 2019, 102, 1997-2007.	3.4	37
46	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.	8.2	37
47	Effect of the tip length of multi-branched AuNFs on the detection performance of immunochromatographic assays. <i>Analytical Methods</i> , 2016, 8, 3316-3324.	2.7	36
48	Direct competitive ELISA enhanced by dynamic light scattering for the ultrasensitive detection of aflatoxin B ₁ in corn samples. <i>Food Chemistry</i> , 2021, 342, 128327.	8.2	36
49	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.	5.4	34
50	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.	11.2	31
51	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.	10.1	29
52	Fluorescence ELISA based on CAT-regulated fluorescence quenching of CdTe QDs for sensitive detection of FB ₁ . <i>Analytical Methods</i> , 2018, 10, 5797-5802.	2.7	28
53	Gold Nanoflower-Enhanced Dynamic Light Scattering Immunosensor for the Ultrasensitive No-Wash Detection of <i>Escherichia coli</i> O157:H7 in Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9104-9111.	5.2	28
54	Controllable self-assembled plasmonic vesicle-based three-dimensional SERS platform for picomolar detection of hydrophobic contaminants. <i>Nanoscale</i> , 2018, 10, 13202-13211.	5.6	25

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55	Wash-free detection and bioimaging by AIEgens. <i>Materials Chemistry Frontiers</i> , 2021, 5, 723-743.	5.9	25
56	AIEgen for cancer discrimination. <i>Materials Science and Engineering Reports</i> , 2021, 146, 100649.	31.8	23
57	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.	5.4	21
58	Quantum bead-based fluorescence-linked immunosorbent assay for ultrasensitive detection of aflatoxin M1 in pasteurized milk, yogurt, and milk powder. <i>Journal of Dairy Science</i> , 2019, 102, 3985-3993.	3.4	21
59	Gold nanoparticle-decorated metal organic frameworks on immunochromatographic assay for human chorionic gonadotropin detection. <i>Mikrochimica Acta</i> , 2020, 187, 640.	5.0	21
60	Hydrazide-assisted directional antibody conjugation of gold nanoparticles to enhance immunochromatographic assay. <i>Analytica Chimica Acta</i> , 2021, 1168, 338623.	5.4	20
61	Plasmonic ELISA based on DNA-directed gold nanoparticle growth for <i>Cronobacter</i> detection in powdered infant formula samples. <i>Journal of Dairy Science</i> , 2019, 102, 10877-10886.	3.4	19
62	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.	7.8	18
63	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.	5.6	17
64	Integrated magneto-fluorescence nanobeads for ultrasensitive glycoprotein detection using antibody coupled boronate-affinity recognition. <i>Chemical Communications</i> , 2019, 55, 10312-10315.	4.1	17
65	A Gold Growth-Based Plasmonic ELISA for the Sensitive Detection of Fumonisin B1 in Maize. <i>Toxins</i> , 2019, 11, 323.	3.4	17
66	Comparison of three sample addition methods in competitive and sandwich colloidal gold immunochromatographic assay. <i>Analytica Chimica Acta</i> , 2020, 1094, 90-98.	5.4	16
67	Magnetic beads carrying poly(acrylic acid) brushes as nanobody containers for immunoaffinity purification of aflatoxin B1 from corn samples. <i>RSC Advances</i> , 2015, 5, 77380-77387.	3.6	15
68	Integrated gold superparticles into lateral flow immunoassays for the rapid and sensitive detection of <i>Escherichia coli</i> O157:H7 in milk. <i>Journal of Dairy Science</i> , 2020, 103, 6940-6949.	3.4	15
69	A Universal Boronate-Affinity Crosslinking-Amplified Dynamic Light Scattering Immunoassay for Point-of-Care Glycoprotein Detection. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
70	SCCNN: A Diagnosis Method for Hepatocellular Carcinoma and Intrahepatic Cholangiocarcinoma Based on Siamese Cross Contrast Neural Network. <i>IEEE Access</i> , 2020, 8, 85271-85283.	4.2	14
71	Gold Nanobeads with Enhanced Absorbance for Improved Sensitivity in Competitive Lateral Flow Immunoassays. <i>Foods</i> , 2021, 10, 1488.	4.3	13
72	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.	7.8	12

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73	Eco-Friendly Fluorescent ELISA Based on Bifunctional Phage for Ultrasensitive Detection of Ochratoxin A in Corn. Foods, 2021, 10, 2429.	4.3	12
74	Avoiding the self-nucleation interference: a pH-regulated gold <i>in situ</i> growth strategy to enable ultrasensitive immunochromatographic diagnostics. Theranostics, 2022, 12, 2801-2810.	10.0	12
75	A multi-scale feedback ratio analysis of heartbeat interval series in healthy vs. cardiac patients. Medical Engineering and Physics, 2014, 36, 1693-1698.	1.7	11
76	Integrated nanoparticle size with membrane porosity for improved analytical performance in sandwich immunochromatographic assay. Analytica Chimica Acta, 2021, 1141, 136-143.	5.4	10
77	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.	7.8	10
78	Stress Wave Propagation through Rock Joints Filled with Viscoelastic Medium Considering Different Water Contents. Applied Sciences (Switzerland), 2020, 10, 4797.	2.5	9
79	Low-sample-consumption and ultrasensitive detection of procalcitonin by boronate affinity recognition-enhanced dynamic light scattering biosensor. Biosensors and Bioelectronics, 2022, 200, 113914.	10.1	9
80	EEG based topography analysis in string recognition task. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 531-539.	2.6	8
81	Brain Connectivity Variation Topography Associated with Working Memory. PLoS ONE, 2016, 11, e0165168.	2.5	8
82	Ultrasensitive dynamic light scattering immunosensing platform for NT-proBNP detection using boronate affinity amplification. Journal of Nanobiotechnology, 2022, 20, 21.	9.1	8
83	Fluorescence immunoassay through histone-ds-poly(AT)-templated copper nanoparticles as signal transducers for the sensitive detection of Salmonella choleraesuis in milk. Journal of Dairy Science, 2019, 102, 6047-6055.	3.4	7
84	Boronate affinity-assisted oriented antibody conjugation on quantum dot nanobeads for improved detection performance in lateral flow immunoassay. Microchemical Journal, 2021, 171, 106822.	4.5	7
85	Multifractal analysis of resting state fMRI series in default mode network: age and gender effects. Science Bulletin, 2014, 59, 3107-3113.	1.7	6
86	Ratiometric Monitoring of Biogenic Amines by a Simple Ammonia-Response Aiegen. Foods, 2022, 11, 932.	4.3	6
87	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.	3.6	5
88	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.	2.6	4
89	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.	7.8	4
90	Common Interferences Removal from Dense Multichannel EEG Using Independent Component Decomposition. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-9.	1.3	3

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91	Progressive Failure Characteristics of Brittle Rock under High-Strain-Rate Compression Using the Bonded Particle Model. <i>Materials</i> , 2020, 13, 3943.	2.9	3
92	Nearest Neighbor Method to Estimate Internal Target for Real-Time Tumor Tracking. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381878659.	1.9	2
93	Intensive Care Unit False Alarm Identification Based on Convolution Neural Network. <i>IEEE Access</i> , 2021, 9, 81841-81854.	4.2	2
94	A Noninvasive Body Setup Method for Radiotherapy by Using a Multimodal Image Fusion Technique. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 1187-1193.	1.9	1
95	Multifractal Sensitive Frequency Analysis of Mice ECG Signals Based on Downsampling Approach. , 2011, , .		0
96	Multiscale multifractal analysis of 12-lead ECG signals of mice based on wavelet transform and coarse-grained approach. , 2011, , .		0
97	Amphiphilic ligand modified gold nanocarriers to amplify lanthanide loading for ultrasensitive DELFIA detection of <i>Cronobacter</i> . <i>Analyst</i> , The, 2020, 145, 249-256.	3.5	0