Yunlei Xianyu

List of Publications by Year
in descending order

60 papers	4,079 citations	117625 34 h-index	128289 60 g-index
60 all docs	60 docs citations	60 times ranked	5420 citing authors

#	Article	IF	Citations
1	Surface Modification of Gold Nanoparticles with Small Molecules for Biochemical Analysis. Accounts of Chemical Research, 2017, 50, 310-319.	15.6	380
2	Point-of-care biochemical assays using gold nanoparticle-implemented microfluidics. Chemical Society Reviews, 2014, 43, 6239-6253.	38.1	290
3	Gold nanoclusters-assisted delivery of NGF siRNA for effective treatment of pancreatic cancer. Nature Communications, 2017, 8, 15130.	12.8	246
4	Recent advances in gold nanoparticles-based biosensors for food safety detection. Biosensors and Bioelectronics, 2021, 179, 113076.	10.1	193
5	One-Step Detection of Pathogens and Viruses: Combining Magnetic Relaxation Switching and Magnetic Separation. ACS Nano, 2015, 9, 3184-3191.	14.6	182
6	A Plasmonic Nanosensor for Immunoassay via Enzyme-Triggered Click Chemistry. ACS Nano, 2014, 8, 12741-12747.	14.6	176
7	Nanomaterials for Ultrasensitive Protein Detection. Advanced Materials, 2013, 25, 3802-3819.	21.0	174
8	Size-based hydrodynamic rare tumor cell separation in curved microfluidic channels. Biomicrofluidics, 2013, 7, 011802.	2.4	129
9	Magnetic particles-enabled biosensors for point-of-care testing. TrAC - Trends in Analytical Chemistry, 2018, 106, 213-224.	11.4	127
10	Detection of the nanomolar level of total Cr[(<scp>iii</scp>) and (<scp>vi</scp>)] by functionalized gold nanoparticles and a smartphone with the assistance of theoretical calculation models. Nanoscale, 2015, 7, 2042-2049.	5.6	113
11	A dual-readout chemiluminescent-gold lateral flow test for multiplex and ultrasensitive detection of disease biomarkers in real samples. Nanoscale, 2016, 8, 15205-15212.	5.6	93
12	Functionalized Gold Nanoclusters Identify Highly Reactive Oxygen Species in Living Organisms. Advanced Functional Materials, 2018, 28, 1702026.	14.9	92
13	A Dispersion-Dominated Chromogenic Strategy for Colorimetric Sensing of Glutathione at the Nanomolar Level Using Gold Nanoparticles. Small, 2015, 11, 5510-5514.	10.0	90
14	A microfluidic origami chip for synthesis of functionalized polymeric nanoparticles. Nanoscale, 2013, 5, 5262.	5.6	85
15	Horseradish Peroxidase-Mediated, Iodide-Catalyzed Cascade Reaction for Plasmonic Immunoassays. Analytical Chemistry, 2015, 87, 10688-10692.	6.5	83
16	Click Chemistry-Mediated Nanosensors for Biochemical Assays. Theranostics, 2016, 6, 969-985.	10.0	83
17	Nanocrystalline Cellulose-Assisted Generation of Silver Nanoparticles for Nonenzymatic Glucose Detection and Antibacterial Agent. Biomacromolecules, 2016, 17, 2472-2478.	5.4	83
18	Controllable Assembly of Enzymes for Multiplexed Labâ€onâ€aâ€Chip Bioassays with a Tunable Detection Range. Angewandte Chemie - International Edition, 2018, 57, 7503-7507.	13.8	77

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19	A microfluidic tubing method and its application for controlled synthesis of polymeric nanoparticles. Lab on A Chip, 2014, 14, 1673-1677.	6.0	75
20	Double-Enzymes-Mediated Bioluminescent Sensor for Quantitative and Ultrasensitive Point-of-Care Testing. Analytical Chemistry, 2017, 89, 5422-5427.	6.5	72
21	When nano meets plants: A review on the interplay between nanoparticles and plants. Nano Today, 2021, 38, 101143.	11.9	70
22	Gold Nanomaterialsâ€Implemented Wearable Sensors for Healthcare Applications. Advanced Functional Materials, 2022, 32, .	14.9	70
23	Enzymatic Assay for Cu(II) with Horseradish Peroxidase and Its Application in Colorimetric Logic Gate. Analytical Chemistry, 2013, 85, 7029-7032.	6.5	65
24	Culturing Primary Human Osteoblasts on Electrospun Poly(lactic-co-glycolic acid) and Poly(lactic-co-glycolic acid)/Nanohydroxyapatite Scaffolds for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2013, 5, 5921-5926.	8.0	61
25	Iodideâ€Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. Angewandte Chemie - International Edition, 2021, 60, 9891-9896.	13.8	55
26	An ultrasensitive, non-enzymatic glucose assay via gold nanorod-assisted generation of silver nanoparticles. Nanoscale, 2013, 5, 6303.	5.6	53
27	Bioorthogonal Reaction-Mediated ELISA Using Peroxide Test Strip as Signal Readout for Point-of-Care Testing. Analytical Chemistry, 2017, 89, 6113-6119.	6.5	51
28	Covalent Organic Framework-Incorporated Nanofibrous Membrane as an Intelligent Platform for Wound Dressing. ACS Applied Materials & Interfaces, 2022, 14, 8680-8692.	8.0	51
29	Cascade Reaction-Mediated Assembly of Magnetic/Silver Nanoparticles for Amplified Magnetic Biosensing. Analytical Chemistry, 2018, 90, 6906-6912.	6.5	48
30	One-step detection of pathogens and cancer biomarkers by the naked eye based on aggregation of immunomagnetic beads. Nanoscale, 2016, 8, 1100-1107.	5.6	44
31	Broad-Range Magnetic Relaxation Switching Bioassays Using Click Chemistry-Mediated Assembly of Polystyrene Beads and Magnetic Nanoparticles. ACS Sensors, 2019, 4, 1942-1949.	7.8	42
32	Colorimetric Logic Gates through Molecular Recognition and Plasmonic Nanoparticles. Small, 2014, 10, 4833-4838.	10.0	41
33	Background Signal-Free Magnetic Bioassay for Food-Borne Pathogen and Residue of Veterinary Drug via Mn(VII)/Mn(II) Interconversion. ACS Sensors, 2019, 4, 2771-2777.	7.8	39
34	Arrayâ€Based Biosensors for Bacteria Detection: From the Perspective of Recognition. Small, 2021, 17, e2006230.	10.0	37
35	Direct Transverse Relaxation Time Biosensing Strategy for Detecting Foodborne Pathogens through Enzyme-Mediated Solâ€“Gel Transition of Hydrogels. Analytical Chemistry, 2021, 93, 6613-6619.	6.5	37
36	Amplified Magnetic Resonance Sensing via Enzyme-Mediated Click Chemistry and Magnetic Separation. Analytical Chemistry, 2019, 91, 15555-15562.	6.5	36

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37	Peptide-Mediated Controllable Cross-Linking of Gold Nanoparticles for Immunoassays with Tunable Detection Range. Analytical Chemistry, 2018, 90, 8234-8240.	6.5	35
38	Dietary exposure of copper and zinc oxides nanoparticles affect the fitness, enzyme activity, and microbial community of the model insect, silkworm Bombyx mori. Science of the Total Environment, 2022, 813, 152608.	8.0	31
39	Versatile T₁-Based Chemical Analysis Platform Using Fe³⁺/Fe²⁺ Interconversion. Analytical Chemistry, 2018, 90, 1234-1240.	6.5	30
40	Cyclodextrin metalâ€“organic framework by ultrasound-assisted rapid synthesis for caffeic acid loading and antibacterial application. Ultrasonics Sonochemistry, 2022, 86, 106003.	8.2	29
41	Enzyme-Free Amplification Strategy for Biosensing Using Fe³⁺â€“Poly(glutamic acid) Coordination Chemistry. Analytical Chemistry, 2018, 90, 4725-4732.	6.5	27
42	Microfluidicsâ€Implemented Biochemical Assays: From the Perspective of Readout. Small, 2020, 16, e1903388.	10.0	27
43	Gd3+-nanoparticle-enhanced multivalent biosensing that combines magnetic relaxation switching and magnetic separation. Biosensors and Bioelectronics, 2020, 155, 112106.	10.1	25
44	Nanobody and Nanozymeâ€Enabled Immunoassays with Enhanced Specificity and Sensitivity. Small Methods, 2022, 6, e2101576.	8.6	23
45	Fe-T₁ Sensor Based on Coordination Chemistry for Sensitive and Versatile Bioanalysis. Analytical Chemistry, 2018, 90, 9148-9155.	6.5	22
46	T₁-Mediated Nanosensor for Immunoassay Based on an Activatable MnO₂ Nanoassembly. Analytical Chemistry, 2018, 90, 2765-2771.	6.5	21
47	Horseradish peroxidase-catalyzed formation of polydopamine for ultra-sensitive magnetic relaxation sensing of aflatoxin B1. Journal of Hazardous Materials, 2021, 419, 126403.	12.4	21
48	A New Strategy for Microbial Taxonomic Identification through Microâ€Biosynthetic Gold Nanoparticles and Machine Learning. Advanced Materials, 2022, 34, e2109365.	21.0	21
49	Versatile Biosensing Toolkit Using an Electronic Particle Counter. Analytical Chemistry, 2021, 93, 6178-6187.	6.5	20
50	Point-of-Care Detection of Î²-Lactamase in Milk with a Universal Fluorogenic Probe. Analytical Chemistry, 2016, 88, 5605-5609.	6.5	19
51	Nanoscale materials and approaches for optical glucose assays. Current Opinion in Chemical Engineering, 2014, 4, 144-151.	7.8	15
52	Polydimethylsiloxane Membranes Incorporating Metalâ€“Organic Frameworks for the Sustained Release of Antibacterial Agents. ACS Applied Materials & Interfaces, 2022, 14, 12662-12673.	8.0	15
53	Nanoparticles-Enabled Surface-Enhanced Imaging Ellipsometry for Amplified Biosensing. Analytical Chemistry, 2019, 91, 6769-6774.	6.5	13
54	A bio-inspired plasmonic nanosensor for angiotensin-converting enzyme through peptide-mediated assembly of gold nanoparticles. Biosensors and Bioelectronics, 2022, 195, 113621.	10.1	12

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55	Controllable Assembly of Enzymes for Multiplexed Labâ€onâ€aâ€Chip Bioassays with a Tunable Detection Range. Angewandte Chemie, 2018, 130, 7625-7629.	2.0	10
56	Plasmonic sensing of Î²-glucuronidase activity via silver mirror reaction on gold nanostars. Biosensors and Bioelectronics, 2021, 190, 113430.	10.1	7
57	Iodideâ€Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. Angewandte Chemie, 2021, 133, 9979-9984.	2.0	4
58	Carbon nanotubeâ€“mediated antibody-free suspension array for determination of typical endocrine-disrupting chemicals. Mikrochimica Acta, 2020, 187, 202.	5.0	3
59	A colorimetric sensing strategy for detecting 10-hydroxy-2-decenoic acid in royal jelly based on Ag(I)-tetramethylbenzidine. Sensors and Actuators B: Chemical, 2022, 354, 131241.	7.8	3
60	A Versatile Sensing Toolkit for Highly Sensitive Detection through the Electrical Conductivity of Gold Nanoparticles. Advanced Materials Technologies, 2022, 7, .	5.8	3