

Yiping Chen

List of Publications by Year in descending order

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78
papers

2,836
citations

172207

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189595

50
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79
all docs

79
docs citations

79
times ranked

3404
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Modification of Gold Nanoparticles with Small Molecules for Biochemical Analysis. <i>Accounts of Chemical Research</i> , 2017, 50, 310-319.	7.6	380
2	One-Step Detection of Pathogens and Viruses: Combining Magnetic Relaxation Switching and Magnetic Separation. <i>ACS Nano</i> , 2015, 9, 3184-3191.	7.3	182
3	Quantitative Detection of MicroRNA in One Step <i>via</i> Next Generation Magnetic Relaxation Switch Sensing. <i>ACS Nano</i> , 2016, 10, 6685-6692.	7.3	127
4	Magnetic particles-enabled biosensors for point-of-care testing. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 106, 213-224.	5.8	127
5	A dual-readout chemiluminescent-gold lateral flow test for multiplex and ultrasensitive detection of disease biomarkers in real samples. <i>Nanoscale</i> , 2016, 8, 15205-15212.	2.8	93
6	Horseradish Peroxidase-Mediated, Iodide-Catalyzed Cascade Reaction for Plasmonic Immunoassays. <i>Analytical Chemistry</i> , 2015, 87, 10688-10692.	3.2	83
7	Click Chemistry-Mediated Nanosensors for Biochemical Assays. <i>Theranostics</i> , 2016, 6, 969-985.	4.6	83
8	Controllable Assembly of Enzymes for Multiplexed Lab-on-a-Chip Bioassays with a Tunable Detection Range. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7503-7507.	7.2	77
9	Double-Enzymes-Mediated Bioluminescent Sensor for Quantitative and Ultrasensitive Point-of-Care Testing. <i>Analytical Chemistry</i> , 2017, 89, 5422-5427.	3.2	72
10	Skiving stacked sheets of paper into test paper for rapid and multiplexed assay. <i>Science Advances</i> , 2017, 3, eaao4862.	4.7	71
11	Streptavidin-biotin-peroxidase nanocomplex-amplified microfluidics immunoassays for simultaneous detection of inflammatory biomarkers. <i>Analytica Chimica Acta</i> , 2017, 982, 138-147.	2.6	66
12	A Fluoroimmunoassay Based on Quantum Dot-Streptavidin Conjugate for the Detection of Chlorpyrifos. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8895-8903.	2.4	54
13	Catalyst-free aerobic oxidation of aldehydes into acids in water under mild conditions. <i>Green Chemistry</i> , 2017, 19, 5708-5713.	4.6	52
14	Bioorthogonal Reaction-Mediated ELISA Using Peroxide Test Strip as Signal Readout for Point-of-Care Testing. <i>Analytical Chemistry</i> , 2017, 89, 6113-6119.	3.2	51
15	Cascade Reaction-Mediated Assembly of Magnetic/Silver Nanoparticles for Amplified Magnetic Biosensing. <i>Analytical Chemistry</i> , 2018, 90, 6906-6912.	3.2	48
16	One-step multiplexed detection of foodborne pathogens: Combining a quantum dot-mediated reverse assaying strategy and magnetic separation. <i>Biosensors and Bioelectronics</i> , 2016, 86, 996-1002.	5.3	46
17	One-step detection of pathogens and cancer biomarkers by the naked eye based on aggregation of immunomagnetic beads. <i>Nanoscale</i> , 2016, 8, 1100-1107.	2.8	44
18	Label-Free Sandwich Imaging Ellipsometry Immunosensor for Serological Detection of Procalcitonin. <i>Analytical Chemistry</i> , 2018, 90, 8002-8010.	3.2	44

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19	An enzyme-mediated competitive colorimetric sensor based on Au@Ag bimetallic nanoparticles for highly sensitive detection of disease biomarkers. <i>Analyst</i> , 2017, 142, 2954-2960.	1.7	42
20	Broad-Range Magnetic Relaxation Switching Bioassays Using Click Chemistry-Mediated Assembly of Polystyrene Beads and Magnetic Nanoparticles. <i>ACS Sensors</i> , 2019, 4, 1942-1949.	4.0	42
21	Simultaneous and Ultrasensitive Detection of Foodborne Bacteria by Gold Nanoparticles-Amplified Microcantilever Array Biosensor. <i>Frontiers in Chemistry</i> , 2019, 7, 232.	1.8	41
22	Background Signal-Free Magnetic Bioassay for Food-Borne Pathogen and Residue of Veterinary Drug via Mn(VII)/Mn(II) Interconversion. <i>ACS Sensors</i> , 2019, 4, 2771-2777.	4.0	39
23	One-step and DNA amplification-free detection of <i>Listeria monocytogenes</i> in ham samples: Combining magnetic relaxation switching and DNA hybridization reaction. <i>Food Chemistry</i> , 2021, 338, 127837.	4.2	38
24	Direct Transverse Relaxation Time Biosensing Strategy for Detecting Foodborne Pathogens through Enzyme-Mediated Sol-Gel Transition of Hydrogels. <i>Analytical Chemistry</i> , 2021, 93, 6613-6619.	3.2	37
25	Photonic crystal fiber-based immunosensor for high-performance detection of alpha fetoprotein. <i>Biosensors and Bioelectronics</i> , 2017, 91, 431-435.	5.3	36
26	Magnetic Lateral Flow Strip for the Detection of Cocaine in Urine by Naked Eyes and Smart Phone Camera. <i>Sensors</i> , 2017, 17, 1286.	2.1	36
27	Amplified Magnetic Resonance Sensing via Enzyme-Mediated Click Chemistry and Magnetic Separation. <i>Analytical Chemistry</i> , 2019, 91, 15555-15562.	3.2	36
28	Peptide-Mediated Controllable Cross-Linking of Gold Nanoparticles for Immunoassays with Tunable Detection Range. <i>Analytical Chemistry</i> , 2018, 90, 8234-8240.	3.2	35
29	Double-enzymes-mediated Fe ²⁺ /Fe ³⁺ conversion as magnetic relaxation switch for pesticide residues sensing. <i>Journal of Hazardous Materials</i> , 2021, 403, 123619.	6.5	34
30	Versatile T ₁ -Based Chemical Analysis Platform Using Fe ³⁺ /Fe ²⁺ Interconversion. <i>Analytical Chemistry</i> , 2018, 90, 1234-1240.	3.2	30
31	Enzyme-Free Amplification Strategy for Biosensing Using Fe ³⁺ -Poly(glutamic acid) Coordination Chemistry. <i>Analytical Chemistry</i> , 2018, 90, 4725-4732.	3.2	27
32	Highly sensitive magnetic relaxation sensing method for aflatoxin B1 detection based on Au NP-assisted triple self-assembly cascade signal amplification. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113489.	5.3	27
33	Fibroblast growth factor 21 is required for the therapeutic effects of <i>Lactobacillus rhamnosus</i> GG against fructose-induced fatty liver in mice. <i>Molecular Metabolism</i> , 2019, 29, 145-157.	3.0	26
34	Optical Fiber-Mediated Immunosensor with a Tunable Detection Range for Multiplexed Analysis of Veterinary Drug Residues. <i>ACS Sensors</i> , 2019, 4, 1864-1872.	4.0	26
35	A Highly Sensitive Capillary-Based Immunosensor by Combining with Peroxidase Nanocomplex-Mediated Signal Amplification for Detection of Procalcitonin in Human Serum. <i>ACS Omega</i> , 2019, 4, 6210-6217.	1.6	26
36	Cu-T ₁ Sensor for Versatile Analysis. <i>Analytical Chemistry</i> , 2018, 90, 2833-2838.	3.2	25

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37	Click Reaction-Mediated T^{2+} Immunosensor for Ultrasensitive Detection of Pesticide Residues via Brush-like Nanostructure-Triggered Coordination Chemistry. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9942-9949.	2.4	25
38	Gd ³⁺ -nanoparticle-enhanced multivalent biosensing that combines magnetic relaxation switching and magnetic separation. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112106.	5.3	25
39	Magnetic Relaxation Switching Immunoassay Based on Hydrogen Peroxide-Mediated Assembly of Ag@Au@Fe ₃ O ₄ Nanoprobe for Detection of Aflatoxin B1. <i>Small</i> , 2021, 17, e2104596.	5.2	23
40	Fe-T ₁ Sensor Based on Coordination Chemistry for Sensitive and Versatile Bioanalysis. <i>Analytical Chemistry</i> , 2018, 90, 9148-9155.	3.2	22
41	A magnetic relaxation DNA biosensor for rapid detection of <i>Listeria monocytogenes</i> using phosphatase-mediated Mn(VII)/Mn(II) conversion. <i>Food Control</i> , 2021, 125, 107959.	2.8	22
42	Manganese dioxide nanoparticle-based colorimetric immunoassay for the detection of alpha-fetoprotein. <i>Mikrochimica Acta</i> , 2017, 184, 2767-2774.	2.5	21
43	T ₁ -Mediated Nanosensor for Immunoassay Based on an Activatable MnO ₂ Nanoassembly. <i>Analytical Chemistry</i> , 2018, 90, 2765-2771.	3.2	21
44	Horseradish peroxidase-catalyzed formation of polydopamine for ultra-sensitive magnetic relaxation sensing of aflatoxin B1. <i>Journal of Hazardous Materials</i> , 2021, 419, 126403.	6.5	21
45	Gold core @ platinum shell nanozyme-mediated magnetic relaxation switching DNA sensor for the detection of <i>Listeria monocytogenes</i> in chicken samples. <i>Food Control</i> , 2022, 137, 108916.	2.8	21
46	Versatile Biosensing Toolkit Using an Electronic Particle Counter. <i>Analytical Chemistry</i> , 2021, 93, 6178-6187.	3.2	20
47	Development of nanosensor by bioorthogonal reaction for multi-detection of the biomarkers of hepatocellular carcinoma. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129653.	4.0	20
48	Point-of-Care Detection of β -Lactamase in Milk with a Universal Fluorogenic Probe. <i>Analytical Chemistry</i> , 2016, 88, 5605-5609.	3.2	19
49	Magnetic relaxation switching biosensor via polydopamine nanoparticle mediated click chemistry for detection of chlorpyrifos. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114127.	5.3	19
50	Detection of Hepatitis B Virus M204I Mutation by Quantum Dot-Labeled DNA Probe. <i>Sensors</i> , 2017, 17, 961.	2.1	17
51	Bioorthogonal Reactions Amplify Magnetic Nanoparticles Binding and Assembly for Ultrasensitive Magnetic Resonance Sensing. <i>Analytical Chemistry</i> , 2020, 92, 2787-2793.	3.2	15
52	Ultra-sensitive capillary immunosensor combining porous-layer surface modification and biotin-streptavidin nano-complex signal amplification: Application for sensing of procalcitonin in serum. <i>Talanta</i> , 2019, 205, 120089.	2.9	14
53	Open Surface Droplet Microfluidic Magnetosensor for Microcystin-LR Monitoring in Reservoir. <i>Analytical Chemistry</i> , 2020, 92, 3409-3416.	3.2	14
54	Polydopamine nanoparticle-mediated, click chemistry triggered, microparticle-counting immunosensor for the sensitive detection of ochratoxin A. <i>Journal of Hazardous Materials</i> , 2022, 428, 128206.	6.5	14

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55	Enzyme-free catalytic hairpin assembly reaction-mediated micro-orifice resistance assay for the ultrasensitive and low-cost detection of <i>Listeria monocytogenes</i> . <i>Biosensors and Bioelectronics</i> , 2022, 214, 114490.	5.3	14
56	Nanoparticles-Enabled Surface-Enhanced Imaging Ellipsometry for Amplified Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 6769-6774.	3.2	13
57	Microfluidic Chip-Based Immunoassay for Reliable Detection of Cloxacillin in Poultry. <i>Food Analytical Methods</i> , 2016, 9, 3163-3169.	1.3	12
58	Microwave-Assisted Synthesis of Hollow Microspheres with Multicomponent Nanocores for Heavy-Metal Removal and Magnetic Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46779-46787.	4.0	12
59	Low-Cost and Convenient Microchannel Resistance Biosensing Platform by Directly Translating Biorecognition into a Current Signal. <i>Analytical Chemistry</i> , 2021, 93, 15049-15057.	3.2	12
60	Multiplex immunoassays using surface modification-mediated porous layer open tubular capillary. <i>Analytica Chimica Acta</i> , 2018, 1043, 1-10.	2.6	11
61	Enzyme-modulated photothermal immunoassay of chloramphenicol residues in milk and egg using a self-calibrated thermal imager. <i>Food Chemistry</i> , 2022, 392, 133232.	4.2	11
62	A magnetic relaxation switching immunosensor for one-step detection of salbutamol based on gold nanoparticle-streptavidin conjugate. <i>RSC Advances</i> , 2015, 5, 95401-95404.	1.7	10
63	Controllable Assembly of Enzymes for Multiplexed Lab-on-a-Chip Bioassays with a Tunable Detection Range. <i>Angewandte Chemie</i> , 2018, 130, 7625-7629.	1.6	10
64	Fluorescence Resonance Energy Transfer-Mediated Immunosensor Based on Design and Synthesis of the Substrate of Amp Cephalosporinase for Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 11316-11323.	3.2	10
65	A colorimetric and ultrasensitive immunosensor for one-step pathogen detection via the combination of nanoparticle-triggered signal amplification and magnetic separation. <i>RSC Advances</i> , 2015, 5, 100633-100637.	1.7	9
66	Integrating magnetic metal-organic frameworks-based sample preparation with microchannel resistance biosensor for rapid and quantitative detection of aflatoxin B1. <i>Journal of Hazardous Materials</i> , 2022, 438, 129425.	6.5	9
67	Catalyst-Free and One-Pot Procedure for Fast Formation of α -Ketoamides Using α -Oxocarboxylic Acids and Amines at Room Temperature. <i>ChemistrySelect</i> , 2017, 2, 4638-4641.	0.7	8
68	Structure identification and toxicity evaluation of one newly-discovered dechlorinated photoproducts of chlorpyrifos. <i>Chemosphere</i> , 2022, 301, 134822.	4.2	8
69	DNA enzyme mediated ratiometric fluorescence assay for Pb(II) ion using magnetic nanosphere-loaded gold nanoparticles and CdSe/ZnS quantum dots. <i>Mikrochimica Acta</i> , 2020, 187, 273.	2.5	7
70	Polymorphisms and features of cytomegalovirus UL144 and UL146 in congenitally infected neonates with hepatic involvement. <i>PLoS ONE</i> , 2017, 12, e0171959.	1.1	5
71	Click Chemistry-Mediated Particle Counting Sensing via Cu(II)-Polyglutamic Acid Coordination Chemistry and Enzymatic Reaction. <i>Analytical Chemistry</i> , 2022, 94, 5293-5300.	3.2	5
72	Carbon nanotube-mediated antibody-free suspension array for determination of typical endocrine-disrupting chemicals. <i>Mikrochimica Acta</i> , 2020, 187, 202.	2.5	3

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73	One-step homogeneous micro-orifice resistance immunoassay for detection of chlorpyrifos in orange samples. <i>Food Chemistry</i> , 2022, 386, 132712.	4.2	3
74	Study on Chemiluminescence Assay of Surfactant PEG-400 Using Luminol-Hydrogen Peroxide System. <i>Analytical Letters</i> , 2008, 41, 1279-1289.	1.0	2
75	Clinical Value of Dorsal Medulla Oblongata Involvement Detected With Conventional Magnetic Resonance Imaging for Prediction of Outcome in Children With Enterovirus 71-Related Brainstem Encephalitis. <i>Pediatric Infectious Disease Journal</i> , 2019, 38, 99-103.	1.1	2
76	Unveiling the reaction process of the amine in direct amidation of aromatic ketones in H ₂ O. <i>ChemistryOpen</i> , 2020, 9, 996-1000.	0.9	1
77	A homogeneous microchannel resistance sensor based on target-induced aggregation of polystyrene microspheres. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132277.	4.0	1
78	Advances in the Bacteriophage-Based Precise Identification and Magnetic Relaxation Switch Sensor for Rapid Detection of Foodborne Pathogens. , 0, , .		0