

Piaopiao Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Homogeneous Visual and Fluorescence Detection of Circulating Tumor Cells in Clinical Samples <i>via</i> Selective Recognition Reaction and Enzyme-Free Amplification. ACS Nano, 2021, 15, 11634-11643.	14.6	81
2	Label-Free and Separation-Free Atomic Fluorescence Spectrometry-Based Bioassay: Sensitive Determination of Single-Strand DNA, Protein, and Double-Strand DNA. Analytical Chemistry, 2016, 88, 2065-2071.	6.5	45
3	Filter-Assisted Separation of Multiple Nanomaterials: Mechanism and Application in Atomic/Mass Spectrometry/Fluorescence Label-Free Multimode Bioassays. Analytical Chemistry, 2021, 93, 3889-3897.	6.5	45
4	Rapid and simple detection of ascorbic acid and alkaline phosphatase<i>via</i> controlled generation of silver nanoparticles and selective recognition. Analyst, The, 2019, 144, 1147-1152.	3.5	43
5	Multimode MicroRNA Sensing via Multiple Enzyme-Free Signal Amplification and Cation-Exchange Reaction. ACS Applied Materials & Interfaces, 2019, 11, 36476-36484.	8.0	41
6	Strand Displacement-Induced Enzyme-Free Amplification for Label-Free and Separation-Free Ultrasensitive Atomic Fluorescence Spectrometric Detection of Nucleic Acids and Proteins. Analytical Chemistry, 2016, 88, 12386-12392.	6.5	40
7	Selective reduction-based, highly sensitive and homogeneous detection of iodide and melamine using chemical vapour generation-atomic fluorescence spectrometry. Chemical Communications, 2018, 54, 4696-4699.	4.1	40
8	Homogeneous Binary Visual and Fluorescence Detection of Tetanus Toxoid in Clinical Samples Based on Enzyme-Free Parallel Hybrid Chain Reaction. Nano Letters, 2022, 22, 1710-1717.	9.1	37
9	Selective recognition of CdTe QDs and strand displacement signal amplification-assisted label-free and homogeneous fluorescence assay of nucleic acid and protein. Journal of Materials Chemistry B, 2019, 7, 4778-4783.	5.8	30
10	Enzymatic reaction modulated synthesis of quantum dots for visual detection of cholinesterase activity and inhibitor. Sensors and Actuators B: Chemical, 2019, 292, 180-186.	7.8	29
11	Active DNA unwinding and transport by a membrane-adapted helicase nanopore. Nature Communications, 2019, 10, 5083.	12.8	25
12	Flow injection hydride generation for on-atomizer trapping: Highly sensitive determination of cadmium by tungsten coil atomic absorption spectrometry. Microchemical Journal, 2014, 112, 7-12.	4.5	24
13	Sensitive CVG-AFS/ICP-MS label-free nucleic acid and protein assays based on a selective cation exchange reaction and simple filtration separation. Analyst, The, 2019, 144, 2797-2802.	3.5	20
14	Ultrasensitive Nanopore Sensing of Mucin 1 and Circulating Tumor Cells in Whole Blood of Breast Cancer Patients by Analyte-Triggered Triplex-DNA Release. ACS Applied Materials & Interfaces, 2021, 13, 21030-21039.	8.0	20
15	Visual/CVG-AFS/ICP-MS multi-mode and label-free detection of target nucleic acids based on a selective cation exchange reaction and enzyme-free strand displacement amplification. Analyst, The, 2019, 144, 4407-4412.	3.5	19
16	Visual and dual-fluorescence homogeneous sensor for the detection of pyrophosphatase in clinical hyperthyroidism samples based on selective recognition of CdTe QDs and coordination polymerization of Ce³⁺. Journal of Materials Chemistry C, 2021, 9, 4141-4149.	5.5	19
17	Rapid and highly sensitive visual detection of oxalate for metabolic assessment of urolithiasis <i>via</i> selective recognition reaction of CdTe quantum dots. Journal of Materials Chemistry B, 2020, 8, 7677-7684.	5.8	18
18	Exonuclease III-assisted strand displacement reaction-driven cyclic generation of G-quadruplex strategy for homogeneous fluorescent detection of melamine. Talanta, 2019, 203, 255-260.	5.5	16

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19	Homogeneous two-dimensional visual and fluorescence analysis of circulating tumor cells in clinical samples via steric hindrance regulated enzymes recognition cleavage and elongation. <i>Biosensors and Bioelectronics</i> , 2022, 202, 114009.	10.1	15
20	Color and distance two-dimensional visual and homogeneous dual fluorescence analysis of pathogenic bacteria in clinical samples. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131422.	7.8	15
21	Simultaneous Homogeneous Fluorescence Detection of AFP and GPC3 in Hepatocellular Carcinoma Clinical Samples Assisted by Enzyme-Free Catalytic Hairpin Assembly. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28697-28705.	8.0	15
22	Cysteine mediated synthesis of quantum dots: Mechanism and application in visual detection of hydrogen peroxide and glucose. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127702.	7.8	14
23	A general strategy for label-free homogeneous bioassays based on selective recognition and silver ion-mediated conformational switch. <i>Talanta</i> , 2019, 201, 9-15.	5.5	12
24	A Fluorescence Strategy for Silver Ion Assay via Cation Exchange Reaction and Formation of Poly(thymine)-templated Copper Nanoclusters. <i>Analytical Sciences</i> , 2019, 35, 917-922.	1.6	10
25	Homogeneous assay based on the pre-reduction and selective cation exchange for detection of multiple targets by atomic spectrometry. <i>Talanta</i> , 2020, 219, 121387.	5.5	7
26	Thiol inhibition of Hg cold vapor generation in SnCl ₂ /NaBH ₄ system: A homogeneous bioassay for H ₂ O ₂ /glucose and butyrylcholinesterase/pesticide sensing by atomic spectrometry. <i>Analytica Chimica Acta</i> , 2020, 1111, 8-15.	5.4	7
27	Multimode detection of β -glucosidase and pathogenic bacteria via cation exchange assisted signal amplification. <i>Mikrochimica Acta</i> , 2020, 187, 453.	5.0	6
28	Homogeneous electrochemical analysis of β -glucosidase and pathogenic bacteria in clinical sample assisted by click chemistry and enzyme-free catalytic hairpin assembly. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130628.	7.8	6
29	Immunofluorescence and two-dimensional visual analysis of HIV-1 p24 antigen in clinical samples enhanced by poly-T templated copper nanoparticles and QDs. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131209.	7.8	5
30	Detection of nucleic acids via G-quadruplex-controlled l-cysteine oxidation and catalyzed hairpin assembly-assisted signal amplification. <i>RSC Advances</i> , 2018, 8, 40564-40569.	3.6	4
31	β -Galactosidase triggered dual-signal competitive selective recognition of copper ion for diagnosis of urinary tract infection by <i>Escherichia coli</i> . <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131865.	7.8	4
32	Fluorescence Aptasensor of Tuberculosis Interferon- γ in Clinical Samples Regulated by Steric Hindrance and Selective Identification. <i>Analytical Chemistry</i> , 2022, 94, 9122-9129.	6.5	4
33	Cancer Genomic Alterations Can Be Potential Biomarkers Predicting Microvascular Invasion and Early Recurrence of Hepatocellular Carcinoma. <i>Frontiers in Oncology</i> , 2022, 12, 783109.	2.8	3
34	Fluorescence and visual immunoassay of HIV-1 p24 antigen in clinical samples via multiple selective recognitions of CdTe QDs. <i>Mikrochimica Acta</i> , 2021, 188, 422.	5.0	3