

Xiaoming Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,588
citations

196777

29
h-index

206121

51
g-index

55
all docs

55
docs citations

55
times ranked

3497
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting the orthogonal CRISPR-Cas12a/Cas13a trans-cleavage for dual-gene virus detection using a handheld device. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113701.	5.3	69
2	Mã~CDC: Magnetic pull-down-assisted colorimetric method based on the CRISPR/Cas12a system. <i>Methods</i> , 2022, 203, 259-267.	1.9	3
3	Fast microwave heating-based one-step synthesis of DNA and RNA modified gold nanoparticles. <i>Nature Communications</i> , 2022, 13, 968.	5.8	31
4	A decoupling-design strategy for high sound absorption in subwavelength structures with air ventilation. <i>JASA Express Letters</i> , 2022, 2, 033602.	0.5	2
5	Topological Pumping in Doubly Modulated Mechanical Systems. <i>Physical Review Applied</i> , 2022, 17, .	1.5	2
6	A new method to detect red spotted grouper neuro necrosis virus (RGNNV) based on CRISPR/Cas13a. <i>Aquaculture</i> , 2022, 555, 738217.	1.7	3
7	CRISPR/Cas13a assisted amplification of magnetic relaxation switching sensing for accurate detection of miRNA-21 in human serum. <i>Analytica Chimica Acta</i> , 2022, 1209, 339853.	2.6	16
8	Glycerol Additive Boosts 100-fold Sensitivity Enhancement for One-Pot RPA-CRISPR/Cas12a Assay. <i>Analytical Chemistry</i> , 2022, 94, 8277-8284.	3.2	49
9	Photocontrolled crRNA activation enables robust CRISPR-Cas12a diagnostics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	53
10	A CRISPR-driven colorimetric code platform for highly accurate telomerase activity assay. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112749.	5.3	44
11	Simultaneous Dualâ€Gene Diagnosis of SARSâ€CoVâ€2 Based on CRISPR/Cas9â€Mediated Lateral Flow Assay. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5307-5315.	7.2	215
12	An Ultralocalized Cas13a Assay Enables Universal and Nucleic Acid Amplification-Free Single-Molecule RNA Diagnostics. <i>ACS Nano</i> , 2021, 15, 1167-1178.	7.3	187
13	Simultaneous Dualâ€Gene Diagnosis of SARSâ€CoVâ€2 Based on CRISPR/Cas9â€Mediated Lateral Flow Assay. <i>Angewandte Chemie</i> , 2021, 133, 5367-5375.	1.6	29
14	Topological mode switching in modulated structures with dynamic encircling of an exceptional point. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20200766.	1.0	8
15	A CRISPR/Cas9 eraser strategy for contaminationâ€free PCR endâ€point detection. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2053-2066.	1.7	22
16	Detection of SARS-CoV-2 by CRISPR/Cas12a-Enhanced Colorimetry. <i>ACS Sensors</i> , 2021, 6, 1086-1093.	4.0	108
17	Advances in Clustered, Regularly Interspaced Short Palindromic Repeats (CRISPR)-Based Diagnostic Assays Assisted by Micro/Nanotechnologies. <i>ACS Nano</i> , 2021, 15, 7848-7859.	7.3	69
18	Droplet Cas12a Assay Enables DNA Quantification from Unamplified Samples at the Single-Molecule Level. <i>Nano Letters</i> , 2021, 21, 4643-4653.	4.5	120

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19	Creating synthetic spaces for higher-order topological sound transport. <i>Nature Communications</i> , 2021, 12, 5028.	5.8	31
20	Chiral mode transfer of symmetry-broken states in anti-parity-time-symmetric mechanical system. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	1.0	2
21	CRISPR/Cas13a Signal Amplification Linked Immunosorbent Assay for Femtomolar Protein Detection. <i>Analytical Chemistry</i> , 2020, 92, 573-577.	3.2	123
22	Creation of acoustic vortex knots. <i>Nature Communications</i> , 2020, 11, 3956.	5.8	35
23	Experimentally tailoring acoustic topological edge states by selecting the boundary type. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	5
24	Single-Step, Salt-Aging-Free, and Thiol-Free Freezing Construction of AuNP-Based Bioprobes for Advancing CRISPR-Based Diagnostics. <i>Journal of the American Chemical Society</i> , 2020, 142, 7506-7513.	6.6	161
25	Universal and Naked-Eye Gene Detection Platform Based on the Clustered Regularly Interspaced Short Palindromic Repeats/Cas12a/13a System. <i>Analytical Chemistry</i> , 2020, 92, 4029-4037.	3.2	184
26	Clustered Regularly Interspaced Short Palindromic Repeats/Cas9-Mediated Lateral Flow Nucleic Acid Assay. <i>ACS Nano</i> , 2020, 14, 2497-2508.	7.3	227
27	Sensitive detection of a bacterial pathogen using allosteric probe-initiated catalysis and CRISPR-Cas13a amplification reaction. <i>Nature Communications</i> , 2020, 11, 267.	5.8	200
28	CUT-LAMP: Contamination-Free Loop-Mediated Isothermal Amplification Based on the CRISPR/Cas9 Cleavage. <i>ACS Sensors</i> , 2020, 5, 1082-1091.	4.0	74
29	Binding-Induced 3D-Bipedal DNA Walker for Cascade Signal Amplification Detection of Thrombin Combined with Catalytic Hairpin Assembly Strategy. <i>Analytical Chemistry</i> , 2019, 91, 15317-15324.	3.2	45
30	High-Fidelity and Rapid Quantification of miRNA Combining crRNA Programmability and CRISPR/Cas13a <i>trans</i> -Cleavage Activity. <i>Analytical Chemistry</i> , 2019, 91, 5278-5285.	3.2	150
31	A time-varying mass metamaterial for non-reciprocal wave propagation. <i>International Journal of Solids and Structures</i> , 2019, 164, 25-36.	1.3	29
32	Adaptive metamaterials for broadband sound absorption at low frequencies. <i>Smart Materials and Structures</i> , 2019, 28, 025005.	1.8	28
33	High-specific microRNA detection based on dual-recycling cascade reaction and nicking endonuclease signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 169-176.	4.0	12
34	Peptide cleavage induced assembly enables highly sensitive electrochemiluminescence detection of protease activity. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 516-521.	4.0	14
35	Clustered Regularly Interspaced Short Palindromic Repeats/Cas9 Triggered Isothermal Amplification for Site-Specific Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2018, 90, 2193-2200.	3.2	204
36	Graphene oxide-mediated Cas9/sgRNA delivery for efficient genome editing. <i>Nanoscale</i> , 2018, 10, 1063-1071.	2.8	124

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37	Simultaneous Detection of Antibiotic Resistance Genes on Paper-Based Chip Using [Ru(phen) ₂ dppz] ²⁺ Turn-on Fluorescence Probe. ACS Applied Materials & Interfaces, 2018, 10, 4494-4501.	4.0	35
38	Graphene Oxide as a Bifunctional Material toward Superior RNA Protection and Extraction. ACS Applied Materials & Interfaces, 2018, 10, 30227-30234.	4.0	6
39	Broadband dual-anisotropic solid metamaterials. Scientific Reports, 2017, 7, 13197.	1.6	14
40	Paperfluidic Chip Device for Small RNA Extraction, Amplification, and Multiplexed Analysis. ACS Applied Materials & Interfaces, 2017, 9, 41151-41158.	4.0	37
41	Linear Ru(bpy) ₃ ²⁺ Polymer as a Universal Probe for Sensitive Detection of Biomarkers with Controllable Electrochemiluminescence Signal-Amplifying Ratio. Analytical Chemistry, 2017, 89, 13016-13023.	3.2	22
42	Quantum dots-labeled strip biosensor for rapid and sensitive detection of microRNA based on target-recycled nonenzymatic amplification strategy. Biosensors and Bioelectronics, 2017, 87, 931-940.	5.3	88
43	<i>In Vitro</i> Evaluation of CRISPR/Cas9 Function by an Electrochemiluminescent Assay. Analytical Chemistry, 2016, 88, 8369-8374.	3.2	29
44	Ultrasensitive Detection of MicroRNA in Tumor Cells and Tissues via Continuous Assembly of DNA Probe. Biomacromolecules, 2015, 16, 3543-3551.	2.6	23
45	Miniaturized Paper-Based Gene Sensor for Rapid and Sensitive Identification of Contagious Plant Virus. ACS Applied Materials & Interfaces, 2014, 6, 22577-22584.	4.0	31
46	Visual and sensitive detection of viable pathogenic bacteria by sensing of RNA markers in gold nanoparticles based paper platform. Biosensors and Bioelectronics, 2014, 62, 38-46.	5.3	62
47	Synthesis, labeling and bioanalytical applications of a tris(2,2'-bipyridyl)ruthenium(II)-based electrochemiluminescence probe. Nature Protocols, 2014, 9, 1146-1159.	5.5	144
48	Sensitive monitoring of RNA transcription levels using a graphene oxide fluorescence switch. Science Bulletin, 2013, 58, 2634-2639.	1.7	12
49	Sensitive and Homogeneous Protein Detection Based on Target-Triggered Aptamer Hairpin Switch and Nicking Enzyme Assisted Fluorescence Signal Amplification. Analytical Chemistry, 2012, 84, 3507-3513.	3.2	142
50	Electrochemiluminescence Biobarcode Method Based on Cysteamine-Gold Nanoparticle Conjugates. Analytical Chemistry, 2010, 82, 3099-3103.	3.2	95
51	Magnetic Bead and Nanoparticle Based Electrochemiluminescence Amplification Assay for Direct and Sensitive Measuring of Telomerase Activity. Analytical Chemistry, 2009, 81, 255-261.	3.2	159