

Xiaoming Zhou

List of Publications by Year in descending order

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51
papers

3,588
citations

172457

29
h-index

182427

51
g-index

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all docs

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docs citations

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times ranked

3148
citing authors

#	ARTICLE	IF	CITATIONS
1	Clustered Regularly Interspaced Short Palindromic Repeats/Cas9-Mediated Lateral Flow Nucleic Acid Assay. <i>ACS Nano</i> , 2020, 14, 2497-2508.	14.6	227
2	Simultaneous Dual-Gene Diagnosis of SARS-CoV-2 Based on CRISPR/Cas9-Mediated Lateral Flow Assay. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5307-5315.	13.8	215
3	Clustered Regularly Interspaced Short Palindromic Repeats/Cas9 Triggered Isothermal Amplification for Site-Specific Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2018, 90, 2193-2200.	6.5	204
4	Sensitive detection of a bacterial pathogen using allosteric probe-initiated catalysis and CRISPR-Cas13a amplification reaction. <i>Nature Communications</i> , 2020, 11, 267.	12.8	200
5	An Ultralocalized Cas13a Assay Enables Universal and Nucleic Acid Amplification-Free Single-Molecule RNA Diagnostics. <i>ACS Nano</i> , 2021, 15, 1167-1178.	14.6	187
6	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.	6.5	184
7	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.	13.7	161
8	Magnetic Bead and Nanoparticle Based Electrochemiluminescence Amplification Assay for Direct and Sensitive Measuring of Telomerase Activity. <i>Analytical Chemistry</i> , 2009, 81, 255-261.	6.5	159
9	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.	6.5	150
10	Synthesis, labeling and bioanalytical applications of a tris(2,2'-bipyridyl)ruthenium(II)-based electrochemiluminescence probe. <i>Nature Protocols</i> , 2014, 9, 1146-1159.	12.0	144
11	Sensitive and Homogeneous Protein Detection Based on Target-Triggered Aptamer Hairpin Switch and Nicking Enzyme Assisted Fluorescence Signal Amplification. <i>Analytical Chemistry</i> , 2012, 84, 3507-3513.	6.5	142
12	Graphene oxide-mediated Cas9/sgRNA delivery for efficient genome editing. <i>Nanoscale</i> , 2018, 10, 1063-1071.	5.6	124
13	CRISPR/Cas13a Signal Amplification Linked Immunosorbent Assay for Femtomolar Protein Detection. <i>Analytical Chemistry</i> , 2020, 92, 573-577.	6.5	123
14	Droplet Cas12a Assay Enables DNA Quantification from Unamplified Samples at the Single-Molecule Level. <i>Nano Letters</i> , 2021, 21, 4643-4653.	9.1	120
15	Detection of SARS-CoV-2 by CRISPR/Cas12a-Enhanced Colorimetry. <i>ACS Sensors</i> , 2021, 6, 1086-1093.	7.8	108
16	Electrochemiluminescence Biobarcode Method Based on Cysteamine-Gold Nanoparticle Conjugates. <i>Analytical Chemistry</i> , 2010, 82, 3099-3103.	6.5	95
17	Quantum dots-labeled strip biosensor for rapid and sensitive detection of microRNA based on target-recycled nonenzymatic amplification strategy. <i>Biosensors and Bioelectronics</i> , 2017, 87, 931-940.	10.1	88
18	CUT-LAMP: Contamination-Free Loop-Mediated Isothermal Amplification Based on the CRISPR/Cas9 Cleavage. <i>ACS Sensors</i> , 2020, 5, 1082-1091.	7.8	74

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19	Advances in Clustered, Regularly Interspaced Short Palindromic Repeats (CRISPR)-Based Diagnostic Assays Assisted by Micro/Nanotechnologies. <i>ACS Nano</i> , 2021, 15, 7848-7859.	14.6	69
20	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.	10.1	69
21	Visual and sensitive detection of viable pathogenic bacteria by sensing of RNA markers in gold nanoparticles based paper platform. <i>Biosensors and Bioelectronics</i> , 2014, 62, 38-46.	10.1	62
22	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, .	7.1	53
23	Glycerol Additive Boosts 100-fold Sensitivity Enhancement for One-Pot RPA-CRISPR/Cas12a Assay. <i>Analytical Chemistry</i> , 2022, 94, 8277-8284.	6.5	49
24	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.	6.5	45
25	A CRISPR-driven colorimetric code platform for highly accurate telomerase activity assay. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112749.	10.1	44
26	Paperfluidic Chip Device for Small RNA Extraction, Amplification, and Multiplexed Analysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41151-41158.	8.0	37
27	Simultaneous Detection of Antibiotic Resistance Genes on Paper-Based Chip Using [Ru(phen) ₂ dppz] ²⁺ Turn-on Fluorescence Probe. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4494-4501.	8.0	35
28	Creation of acoustic vortex knots. <i>Nature Communications</i> , 2020, 11, 3956.	12.8	35
29	Miniaturized Paper-Based Gene Sensor for Rapid and Sensitive Identification of Contagious Plant Virus. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22577-22584.	8.0	31
30	Creating synthetic spaces for higher-order topological sound transport. <i>Nature Communications</i> , 2021, 12, 5028.	12.8	31
31	Fast microwave heating-based one-step synthesis of DNA and RNA modified gold nanoparticles. <i>Nature Communications</i> , 2022, 13, 968.	12.8	31
32	<i>In Vitro</i> Evaluation of CRISPR/Cas9 Function by an Electrochemiluminescent Assay. <i>Analytical Chemistry</i> , 2016, 88, 8369-8374.	6.5	29
33	A time-varying mass metamaterial for non-reciprocal wave propagation. <i>International Journal of Solids and Structures</i> , 2019, 164, 25-36.	2.7	29
34	Simultaneous Dual-Gene Diagnosis of SARS-CoV-2 Based on CRISPR/Cas9-Mediated Lateral Flow Assay. <i>Angewandte Chemie</i> , 2021, 133, 5367-5375.	2.0	29
35	Adaptive metamaterials for broadband sound absorption at low frequencies. <i>Smart Materials and Structures</i> , 2019, 28, 025005.	3.5	28
36	Ultrasensitive Detection of MicroRNA in Tumor Cells and Tissues via Continuous Assembly of DNA Probe. <i>Biomacromolecules</i> , 2015, 16, 3543-3551.	5.4	23

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37	Linear Ru(bpy) ₃ ²⁺ –Polymer as a Universal Probe for Sensitive Detection of Biomarkers with Controllable Electrochemiluminescence Signal-Amplifying Ratio. <i>Analytical Chemistry</i> , 2017, 89, 13016-13023.	6.5	22
38	A CRISPR/Cas9 eraser strategy for contamination-free PCR endpoint detection. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2053-2066.	3.3	22
39	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.	5.4	16
40	Broadband dual-anisotropic solid metamaterials. <i>Scientific Reports</i> , 2017, 7, 13197.	3.3	14
41	Peptide cleavage induced assembly enables highly sensitive electrochemiluminescence detection of protease activity. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 516-521.	7.8	14
42	Sensitive monitoring of RNA transcription levels using a graphene oxide fluorescence switch. <i>Science Bulletin</i> , 2013, 58, 2634-2639.	1.7	12
43	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.	7.8	12
44	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.	2.1	8
45	Graphene Oxide as a Bifunctional Material toward Superior RNA Protection and Extraction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30227-30234.	8.0	6
46	Experimentally tailoring acoustic topological edge states by selecting the boundary type. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	5
47	M ³ CDC: Magnetic pull-down-assisted colorimetric method based on the CRISPR/Cas12a system. <i>Methods</i> , 2022, 203, 259-267.	3.8	3
48	A new method to detect red spotted grouper neuro necrosis virus (RGNNV) based on CRISPR/Cas13a. <i>Aquaculture</i> , 2022, 555, 738217.	3.5	3
49	A decoupling-design strategy for high sound absorption in subwavelength structures with air ventilation. <i>JASA Express Letters</i> , 2022, 2, 033602.	1.1	2
50	Topological Pumping in Doubly Modulated Mechanical Systems. <i>Physical Review Applied</i> , 2022, 17, .	3.8	2
51	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, .	2.1	2