

Erhu Xiong

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,589
citations

249298

26
h-index

355658

38
g-index

39
all docs

39
docs citations

39
times ranked

2602
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast microwave heating-based one-step synthesis of DNA and RNA modified gold nanoparticles. <i>Nature Communications</i> , 2022, 13, 968.	5.8	31
2	Developing predictive hybridization models for phosphorothioate oligonucleotides using high-resolution melting. <i>PLoS ONE</i> , 2022, 17, e0268575.	1.1	1
3	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
4	A CRISPR-driven colorimetric code platform for highly accurate telomerase activity assay. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112749.	5.3	44
5	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.	7.2	215
6	Simultaneous Dual-Gene Diagnosis of SARS-CoV-2 Based on CRISPR/Cas9-Mediated Lateral Flow Assay. <i>Angewandte Chemie</i> , 2021, 133, 5367-5375.	1.6	29
7	A CRISPR/Cas9 eraser strategy for contamination-free PCR endpoint detection. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2053-2066.	1.7	22
8	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
9	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
10	Minimizing Leakage in Stacked Strand Exchange Amplification Circuits. <i>ACS Synthetic Biology</i> , 2021, 10, 1277-1283.	1.9	3
11	CRISPR/Cas13a Signal Amplification Linked Immunosorbent Assay for Femtomolar Protein Detection. <i>Analytical Chemistry</i> , 2020, 92, 573-577.	3.2	123
12	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
13	Dynamic Programming of a DNA Walker Controlled by Protons. <i>ACS Nano</i> , 2020, 14, 4007-4013.	7.3	78
14	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
15	Clustered Regularly Interspaced Short Palindromic Repeats/Cas9-Mediated Lateral Flow Nucleic Acid Assay. <i>ACS Nano</i> , 2020, 14, 2497-2508.	7.3	227
16	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
17	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
18	An ultrasensitive electrochemical immunoassay based on a proximity hybridization-triggered three-layer cascade signal amplification strategy. <i>Analyst, The</i> , 2019, 144, 634-640.	1.7	18

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19	Cascade signal amplified assay of nucleic acids based on entropy-driven amplification strategy and Mg ²⁺ -dependent DNAzyme cleavage. <i>Talanta</i> , 2019, 198, 179-184.	2.9	6
20	Homogeneous enzyme-free and entropy-driven isothermal fluorescent assay for nucleic acids based on a dual-signal output amplification strategy. <i>Chemical Communications</i> , 2018, 54, 12594-12597.	2.2	27
21	A new photoelectrochemical biosensor for ultrasensitive determination of nucleic acids based on a three-stage cascade signal amplification strategy. <i>Analyst</i> , The, 2018, 143, 2799-2806.	1.7	27
22	Triple-Helix Molecular Switch Electrochemical Ratiometric Biosensor for Ultrasensitive Detection of Nucleic Acids. <i>Analytical Chemistry</i> , 2017, 89, 8830-8835.	3.2	116
23	Sensitive electrochemical assay of alkaline phosphatase activity based on TdT-mediated hemin/G-quadruplex DNAzyme nanowires for signal amplification. <i>Biosensors and Bioelectronics</i> , 2017, 87, 970-975.	5.3	77
24	Exonuclease III-assisted cascade signal amplification strategy for label-free and ultrasensitive electrochemical detection of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2017, 87, 732-736.	5.3	62
25	A label-free and cascaded dual-signaling amplified electrochemical aptasensing platform for sensitive prion assay. <i>Biosensors and Bioelectronics</i> , 2016, 85, 471-478.	5.3	24
26	SDR-recycling signal amplification for highly sensitive methyltransferase activity assay. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 304-309.	1.9	8
27	A novel electrochemical aptasensor for bisphenol A assay based on triple-signaling strategy. <i>Biosensors and Bioelectronics</i> , 2016, 79, 22-28.	5.3	72
28	An electrochemical biosensor for sensitive detection of Hg ²⁺ based on exonuclease III-assisted target recycling and hybridization chain reaction amplification strategies. <i>Analytical Methods</i> , 2016, 8, 2106-2111.	1.3	21
29	Sensitive detection of bisphenol A based on a ratiometric electrochemical aptasensor. <i>Canadian Journal of Chemistry</i> , 2016, 94, 509-514.	0.6	9
30	Smart protein biogate as a mediator to regulate competitive host-guest interaction for sensitive ratiometric electrochemical assay of prion. <i>Scientific Reports</i> , 2015, 5, 16015.	1.6	30
31	A label-free electrochemical strategy for highly sensitive methyltransferase activity assays. <i>Chemical Communications</i> , 2015, 51, 5081-5084.	2.2	23
32	Ultrasensitive Electrochemical Detection of Nucleic Acids Based on the Dual-Signaling Electrochemical Ratiometric Method and Exonuclease III-Assisted Target Recycling Amplification Strategy. <i>Analytical Chemistry</i> , 2015, 87, 7291-7296.	3.2	143
33	A new electrochemical aptasensor based on electrocatalytic property of graphene toward ascorbic acid oxidation. <i>Talanta</i> , 2015, 134, 699-704.	2.9	13
34	A ratiometric electrochemical biosensor for sensitive detection of Hg ²⁺ based on thymine-Hg ²⁺ thymine structure. <i>Analytica Chimica Acta</i> , 2015, 853, 242-248.	2.6	111
35	Nanomaterials as signal amplification elements in DNA-based electrochemical sensing. <i>Nano Today</i> , 2014, 9, 197-211.	6.2	134
36	A ratiometric electrochemical aptasensor for sensitive detection of protein based on aptamer-target aptamer sandwich structure. <i>Journal of Electroanalytical Chemistry</i> , 2014, 732, 61-65.	1.9	32

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37	A simple label-free electrochemical aptasensor for dopamine detection. RSC Advances, 2014, 4, 52250-52255.	1.7	45
38	Sensitive Electrochemical Aptasensor by Coupling "Signal-on" and "Signal-off" Strategies. Analytical Chemistry, 2013, 85, 8397-8402.	3.2	116