Xianjin Xiao

List of Publications by Year
in descending order

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Version: 2024-02-01

50	698	567281 15	610901 24
papers	citations	h-index	g-index

51	51	51	577
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enzyme-mediated single-nucleotide variation detection at room temperature with high discrimination factor. Chemical Science, 2015, 6, 1206-1211.	7.4	55
2	A universal mismatch-directed signal amplification platform for ultra-selective and sensitive DNA detection under mild isothermal conditions. Chemical Science, 2012, 3, 2257.	7.4	43
3	Ultra-selective and sensitive DNA detection by a universal apurinic/apyrimidinic probe-based endonuclease IV signal amplification system. Chemical Communications, 2012, 48, 1964-1966.	4.1	43
4	A branch-migration based fluorescent probe for straightforward, sensitive and specific discrimination of DNA mutations. Nucleic Acids Research, 2017, 45, e90-e90.	14.5	32
5	Branch-Migration Based Fluorescent Probe for Highly Sensitive Detection of Mercury. Analytical Chemistry, 2018, 90, 11764-11769.	6.5	32
6	Multifunctional Clip Strand for the Regulation of DNA Strand Displacement and Construction of Complex DNA Nanodevices. ACS Nano, 2021, 15, 11573-11584.	14.6	30
7	DNA terminal structure-mediated enzymatic reaction for ultra-sensitive discrimination of single nucleotide variations in circulating cell-free DNA. Nucleic Acids Research, 2018, 46, e24-e24.	14.5	28
8	Thermodynamics and kinetics guided probe design for uniformly sensitive and specific DNA hybridization without optimization. Nature Communications, 2019, 10, 4675.	12.8	28
9	Methylmercury-induced testis damage is associated with activation of oxidative stress and germ cell autophagy. Journal of Inorganic Biochemistry, 2019, 190, 67-74.	3.5	26
10	Endonuclease IV discriminates mismatches next to the apurinic/apyrimidinic site in DNA strands: constructing DNA sensing platforms with extremely high selectivity. Chemical Communications, 2013, 49, 2819.	4.1	25
11	Knockdown of long non-coding HOTAIR enhances the sensitivity to progesterone in endometrial cancer by epigenetic regulation of progesterone receptor isoform B. Cancer Chemotherapy and Pharmacology, 2019, 83, 277-287.	2.3	24
12	Noncanonical substrate preference of lambda exonuclease for 5â€²-nonphosphate-ended dsDNA and a mismatch-induced acceleration effect on the enzymatic reaction. Nucleic Acids Research, 2018, 46, 3119-3129.	14.5	23
13	Endonuclease IV based competitive DNA probe assay for differentiation of low-abundance point mutations by discriminating stable single-base mismatches. Chemical Communications, 2017, 53, 9422-9425.	4.1	21
14	Detection of single nucleotide polymorphism by measuring extension kinetics with T7 exonuclease mediated isothermal amplification. Analyst, The, 2018, 143, 116-122.	3.5	19
15	Discrimination Cascade Enabled Selective Detection of Single-Nucleotide Mutation. ACS Sensors, 2017, 2, 419-425.	7.8	17
16	Sensitive discrimination of stable mismatched base pairs by an abasic site modified fluorescent probe and lambda exonuclease. Chemical Communications, 2015, 51, 17402-17405.	4.1	15
17	Evaluation of Sperm DNA Integrity by Mean Number of Sperm DNA Breaks Rather Than Sperm DNA Fragmentation Index. Clinical Chemistry, 2022, 68, 540-549.	3.2	14
18	Methylmercury disrupts autophagic flux by inhibiting autophagosome-lysosome fusion in mouse germ cells. Ecotoxicology and Environmental Safety, 2020, 198, 110667.	6.0	13

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19	A path-choice-based biosensor to detect the activity of the alkaline phosphatase as the switch. Analytica Chimica Acta, 2020, 1135, 64-72.	5.4	12
20	Single-Stranded DNA Assisted Cell Penetrating Peptideâ€“DNA Conjugation Strategy for Intracellular Imaging of Nucleases. Analytical Chemistry, 2016, 88, 11306-11309.	6.5	11
21	Generation of artificial sequence-specific nucleases via a preassembled inert-template. Chemical Science, 2016, 7, 2051-2057.	7.4	11
22	Branch migration based selective PCR for DNA mutation enrichment and detection. Chemical Communications, 2019, 55, 8466-8469.	4.1	11
23	Determination of low-abundance single-base point mutations based on endonuclease IV and branch migration system. Analytica Chimica Acta, 2020, 1134, 28-33.	5.4	11
24	Endonuclease IV-Regulated DNAzyme Motor for Universal Single-nucleotide Variation Discrimination. Analytical Chemistry, 2021, 93, 9939-9948.	6.5	11
25	Engineering surface patterns on nanoparticles: new insights into nano-bio interactions. Journal of Materials Chemistry B, 2022, 10, 2357-2383.	5.8	11
26	Combination of a modified block PCR and endonuclease IV-based signal amplification system for ultra-sensitive detection of low-abundance point mutations. Methods, 2013, 64, 255-259.	3.8	10
27	A star-shaped DNA probe based onÂstrand displacement for universal and multiplexed fluorometric detection of genetic variations. Mikrochimica Acta, 2018, 185, 413.	5.0	10
28	Fine and bidirectional regulation of toehold-mediated DNA strand displacement by a wedge-like DNA tool. Chemical Communications, 2020, 56, 8794-8797.	4.1	10
29	The Off-Target Effect of CRISPR-Cas12a System toward Insertions and Deletions between Target DNA and crRNA Sequences. Analytical Chemistry, 2022, 94, 8596-8604.	6.5	9
30	A cost-effective detection of low-abundance mutation with DNA three-way junction structure and lambda exonuclease. Chinese Chemical Letters, 2021, 32, 779-782.	9.0	8
31	Development of a background signal suppression probe for 8-oxoguanine DNA glycosylase detection. Analytica Chimica Acta, 2021, 1175, 338741.	5.4	8
32	A time-dependent fluorescent biosensor for uracil-DNA glycosylase detection based on the uracil inhibition effect towards archaebacterial DNA polymerases. Sensors and Actuators B: Chemical, 2018, 270, 277-282.	7.8	7
33	A double-stranded DNA catalyzed strand displacement system for detection of small genetic variations. Chemical Communications, 2020, 56, 14397-14400.	4.1	7
34	Sensitive detection of alkaline phosphatase based on terminal deoxynucleotidyl transferase and endonuclease IV-assisted exponential signal amplification. Journal of Pharmaceutical Analysis, 2022, 12, 692-697.	5.3	7
35	An interlocked DNA cascade system for universal probe-based melting curve analysis. Nanoscale, 2020, 12, 20449-20455.	5.6	6
36	Thermodynamics-Guided Strand-Displacement-Based DNA Probe for Determination of the Average Methylation Levels of Multiple CpG Sites. Analytical Chemistry, 2020, 92, 792-798.	6.5	5

#	Article	IF	Citations
37	Branch migration-based polymerase chain reaction combined with endonuclease IV-assisted target recycling probe/blocker system for detection of low-abundance point mutations. Analyst, The, 2020, 145, 1355-1361.	3.5	5
38	Small moleculeâ€“protein interactions in branch migration thermodynamics: modelling and application in the homogeneous detection of proteins and small molecules. Analyst, The, 2018, 143, 2755-2759.	3.5	4
39	Eliminating the secondary structure of targeting strands for enhancement of DNA probe based low-abundance point mutation detection. Analytica Chimica Acta, 2019, 1075, 137-143.	5.4	4
40	Guiding-Strand-Controlled DNA Nucleases with Enhanced Specificity and Tunable Kinetics for DNA Mutation Detection. Analytical Chemistry, 2021, 93, 7054-7062.	6.5	4
41	Thermodynamics-guided two-way interlocking DNA cascade system for universal multiplexed mutation detection. Chinese Chemical Letters, 2022, 33, 334-338.	9.0	4
42	Shared-probe system: An accurate, low-cost and general enzyme-assisted DNA probe system for detection of genetic mutation. Chinese Chemical Letters, 2022, 33, 3043-3048.	9.0	4
43	Versatile Integration of Liquid-Phase Microextraction and Fluorescent Aptamer Beacons: A Synergistic Effect for Bioanalysis. Analytical Chemistry, 2021, 93, 14323-14333.	6.5	4
44	Sensitive detection of uracil-DNA glycosylase based on AND-gate triggers. Sensors and Actuators B: Chemical, 2022, 368, 132174.	7.8	4
45	Shortâ€ÐNA Specific Blocker PCR for Efficient and Simple Enrichment of Cell Free Fetal DNAs with Short Lengths. Chinese Journal of Chemistry, 2021, 39, 2101-2106.	4.9	3
46	Sensitive <scp>DNA</scp> Mutation Detection at Physiological Temperature with Endonuclease <scp>IV</scp> by Inhibiting Its Side Activity. Chinese Journal of Chemistry, 2021, 39, 2477-2482.	4.9	3
47	DNA origamiâ€based nanoâ€hunter enriches lowâ€abundance point mutations by targeting wild-type gene segments. Chinese Chemical Letters, 2022, 33, 2052-2056.	9.0	3
48	Self-Internal-Reference Probe System for Control-Free Quantification of Mutation Abundance. Analytical Chemistry, 2021, 93, 13274-13283.	6.5	2
49	A universal probe system for low-abundance point mutation detection based on endonuclease IV. Analyst, The, 2022, 147, 1534-1539.	3.5	1
50	Safety of lymphocytes immunotherapy during the COVID-19 outbreak in Wuhan, China. Archives of Gynecology and Obstetrics, 2021, 304, 567-569.	1.7	0