

Pengfeng Xiao

List of Publications by Year in descending order

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papers

741
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687220

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docs citations

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times ranked

968
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#	ARTICLE	IF	CITATIONS
1	Development of a Novel Bioluminescence Pyrophosphate Assay for the High-Sensitivity Detection of Hepatitis B Virus. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 725-736.	1.4	0
2	A novel specific and ultrasensitive method detecting extracellular vesicles secreted from lung cancer by padlock probe-based exponential rolling circle amplification. <i>Nano Today</i> , 2022, 42, 101334.	6.2	19
3	Reversible superhydrophobicity unyielding magnetic beads of flipping-triggered (SYMBOL) regulate the binding and unbinding of nucleic acids for ultra-sensitive detection. <i>Chemical Engineering Journal</i> , 2022, 431, 133953.	6.6	3
4	Evaluation of the correctable decoding sequencing as a new powerful strategy for DNA sequencing. <i>Life Science Alliance</i> , 2022, 5, e202101294.	1.3	4
5	A Novel Approach to the Bioluminescent Detection of the SARS-CoV-2 ORF1ab Gene by Coupling Isothermal RNA Reverse Transcription Amplification with a Digital PCR Approach. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1017.	1.8	7
6	A digital coding combination analysis for mutational genotyping using pyrosequencing. <i>Electrophoresis</i> , 2021, 42, 1262-1269.	1.3	0
7	A novel bioluminescent approach to the loop-mediated isothermal amplification-based detection of <i>Lactobacillus salivarius</i> in feed samples. <i>Journal of Microbiological Methods</i> , 2021, 187, 106209.	0.7	1
8	New bioluminescence pyrophosphate assay for high-sensitivity detection of foodborne pathogens. <i>Luminescence</i> , 2020, 35, 355-364.	1.5	4
9	Reaction parameter comparison and optimization of multiple displacement amplification. <i>Analytical Methods</i> , 2020, 12, 46-53.	1.3	6
10	Rapid and highly sensitive detection of <i>Escherichia coli</i> O157:H7 in food with loop-mediated isothermal amplification coupled to a new bioluminescent assay. <i>Electrophoresis</i> , 2020, 41, 1793-1803.	1.3	6
11	Programmable Liquid Adhesion on Bioinspired Reentrant Structures. <i>Small</i> , 2019, 15, e1902360.	5.2	31
12	3D Printing of Bioinspired Liquid Superrepellent Structures. <i>Advanced Materials</i> , 2018, 30, e1800103.	11.1	135
13	Liquid Superrepellents: 3D Printing of Bioinspired Liquid Superrepellent Structures (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314.rgBT / Qverlock 11.1 5	11.1	135
14	Efficient identification of SNPs in pooled DNA samples using a dual mononucleotide addition-based sequencing method. <i>Molecular Genetics and Genomics</i> , 2017, 292, 1069-1081.	1.0	2
15	Quantitative analysis of single-nucleotide polymorphisms by pyrosequencing with di-base addition. <i>Electrophoresis</i> , 2017, 38, 876-885.	1.3	6
16	A real-time decoding sequencing technology—a new possibility for high throughput sequencing. <i>RSC Advances</i> , 2017, 7, 40141-40151.	1.7	6
17	Haplotype-Contained PCR Products Analysis by Sequencing with Selective Restriction of Primer Extension. <i>BioMed Research International</i> , 2017, 2017, 1-9.	0.9	1
18	Preparation of DNA-Templated Silver Nanoclusters Under Macromolecular Crowding Conditions. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 892-896.	0.4	8

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19	Control Methods of Mechanical Arms Motion for Automatic Nucleic Acid Detection System Based on Magnetic Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 12455-12459.	0.9	6
20	Quantitative haplotyping of PCR products by nonsynchronous pyrosequencing with di-base addition. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8263-8271.	1.9	3
21	Pyrosequencing with di-base addition for single nucleotide polymorphism genotyping. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3113-3123.	1.9	9
22	Pyrosequencing On-Chip Based on a Gel-Based Solid-Phase Amplification. <i>Springer Protocols</i> , 2016, , 289-300.	0.1	0
23	Pyrosequencing on Acryl-Modified Glass Chip. <i>Springer Protocols</i> , 2016, , 277-287.	0.1	0
24	Effect of oligonucleotide probes substituted by deoxyinosines on the specificity of SNP detection on the DNA microarray. <i>Electrophoresis</i> , 2015, 36, 263-270.	1.3	5
25	Probe optimization for sequencing by ligation. <i>Journal of Biochemistry</i> , 2015, 157, 357-364.	0.9	1
26	A real-time decoding sequencing based on dual mononucleotide addition for cyclic synthesis. <i>Analytica Chimica Acta</i> , 2014, 852, 274-283.	2.6	13
27	Sequencing-by-Ligation Using Oligonucleotide Probes with 3'-Thio-Deoxyinosine. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 751-759.	0.5	3
28	A novel method for SNP detection based on combinative analysis of primer extension and ligation. , 2013, , .		1
29	Endonuclease V-assisted accurate cleavage of oligonucleotide probes controlled by deoxyinosine and deoxynucleoside phosphorothioate for sequencing-by-ligation. <i>Analyst, The</i> , 2012, 137, 4421.	1.7	3
30	Effect of Ultrasound Synthesis of the Gel on Properties of Obtained Zeolite 4A. <i>Advanced Science Letters</i> , 2012, 16, 208-212.	0.2	0
31	Single Nucleotide Variation Detection on 3D DNA Microarray by Ligation of Two-Terminal-Modified Universal Probes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 7627-7634.	0.9	4
32	Single Nucleotide Polymorphism Genotyping and Point Mutation Detection by Ligation on Microarrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 994-1003.	0.9	10
33	Analysis of CpG Island Methylation Using Rolling Circle Amplification (RCA) Product Microarray. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 292-299.	0.5	10
34	Detection of Multiple SNPs in Numerous Samples with Polyacrylamide Gel-Based Microarray. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 479-486.	0.9	3
35	High-Quality Substrate for Fluorescence Enhancement Using Agarose-Coated Silica Opal Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4929-4935.	0.9	3
36	Identification of methylated regions with peak search based on Poisson model from massively parallel methylated DNA immunoprecipitation-sequencing data. <i>Electrophoresis</i> , 2010, 31, 3537-3544.	1.3	4

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37	Multiple SNPs genotyping by ligation of universal probes on 3D DNA microarray. , 2010, , .		0
38	Association Study between BDNF Gene Polymorphisms and Autism by Three-Dimensional Gel-Based Microarray. International Journal of Molecular Sciences, 2009, 10, 2487-2500.	1.8	26
39	Single nucleotide variation detection by ligation of universal probes on a 3D poyacrylamide gel DNA microarray. Human Mutation, 2009, 30, 1460-1468.	1.1	8
40	Single nucleotide polymorphism typing based on pyrosequencing chemistry and acryl modified glass chip. Electrophoresis, 2009, 30, 991-998.	1.3	6
41	Polymerizing immobilization of acrylamide-modified nucleic acids and its application. Biosensors and Bioelectronics, 2009, 24, 1817-1824.	5.3	19
42	Genotyping of multiple single nucleotide polymorphisms with hyperbranched rolling circle amplification and microarray. Clinica Chimica Acta, 2009, 399, 40-44.	0.5	13
43	SNP Genotyping by Gel-Immobilized RCA Product and Biolumometric Assay Coupled with Allele-Specific Primer Extension Reaction. , 2009, , .		0
44	A gel-based solid-phase amplification and its application for SNP typing and sequencing on-chip. Analyst, The, 2009, 134, 2434.	1.7	8
45	Methylation pattern analysis using high throughput microarray of solid phase hyperbranched rolling circle amplification products. Electrophoresis, 2008, 29, 626-633.	1.3	11
46	Fabrication of 3D gel microarrays directly with raw polymerase chain reaction products by heat directed polymerization. Electrophoresis, 2008, 29, 2424-2436.	1.3	9
47	Ultrasonic approach to enhance signal-to-noise in three dimensional microarray. Analytical Biochemistry, 2008, 376, 280-282.	1.1	4
48	Multiple Hybridization-extension Sequencing (MHES) on Microarray. Journal of Biochemistry, 2007, 142, 605-611.	0.9	2
49	Gel immobilization of acrylamide-modified single-stranded DNA template for pyrosequencing. Electrophoresis, 2007, 28, 1903-1912.	1.3	24
50	Pool dam structure based microfluidic devices for filtering tumor cells from blood mixtures. Surface and Interface Analysis, 2006, 38, 996-1003.	0.8	23
51	An improved gel-based DNA microarray method for detecting single nucleotide mismatch. Electrophoresis, 2006, 27, 3904-3915.	1.3	52
52	SNP Genotyping by Gel-immobilized ssDNA and Biolumometric Assay Coupled with Allele-specific Primer Extension Reaction. , 2006, , .		0
53	Assembly Fabrication of Oligonucleotide Arrays. Journal of Nanoscience and Nanotechnology, 2005, 5, 1211-1215.	0.9	0
54	Determination of trace amount of bismuth(III) by adsorptive anodic stripping voltammetry at carbon paste electrode. Analytica Chimica Acta, 2005, 534, 143-147.	2.6	48

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55	Protein array for assist diagnosis of acute myocardial infarction. Colloids and Surfaces B: Biointerfaces, 2005, 40, 195-198.	2.5	14
56	Combinational synthesis of oligonucleotides and assembly fabrication of oligonucleotide array. Colloids and Surfaces B: Biointerfaces, 2005, 40, 165-168.	2.5	2
57	Determination of Cardiac Troponin I for the Auxiliary Diagnosis of Acute Myocardial Infarction by Anodic Stripping Voltammetry at a Carbon Paste Electrode. Journal of Nanoscience and Nanotechnology, 2005, 5, 1240-1244.	0.9	17
58	Angular evaluation to quantify planar distortions of PDMS stamps in soft lithography. Materials Chemistry and Physics, 2004, 83, 60-65.	2.0	10
59	Hydrolysis of microporous polyamide-6 membranes as substrate for in situ synthesis of oligonucleotides. Surface Science, 2004, 550, 26-34.	0.8	9
60	Mosaic DNA chip fabrication and its time-resolved fluorescence detection. , 2004, , .		1
61	Planar distortion quantification to evaluate PDMS stamps affixed on glass support. , 2004, , .		0
62	Colorimetric Detection of Polynucleotides on Polypropylene Slices. Analytical Sciences, 2004, 20, 461-463.	0.8	10
63	Preparation of Hydrophilic Poly(dimethylsiloxane) Stamps by Plasma-Induced Grafting. Langmuir, 2003, 19, 6982-6986.	1.6	56
64	Shrinkage of polyurethane molecular stamp fixed on epoxy resin modified glass substrate. , 2003, 4982, 138.		0
65	DNA microarray synthesis by using PDMS molecular stamps (?) ?? Optimization for the reaction conditions. Science Bulletin, 2002, 47, 1073.	1.7	4
66	Fabrication of microstamps used for oligonucleotide array synthesis. , 2001, , .		1
67	Fabrication of polyurethane molecular stamps for the synthesis of DNA microarray. , 2001, 4601, 412.		0
68	DNA microarray synthesis by using PDMS molecular stamp (II). Science in China Series B: Chemistry, 2001, 44, 442-448.	0.8	9
69	Investigating the state of Fe and La in MCM-41 mesoporous molecular sieve materials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 179, 177-184.	2.3	31
70	Hydrophilic surface formation on PDMS stamp by microwave plasma-induced grafting. , 2001, , .		2
71	In situ synthesis of oligonucleotide arrays by using the molecular stamp method. , 0, , .		0