

Yubin Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

570
citations

623734

14
h-index

677142

22
g-index

47
all docs

47
docs citations

47
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
1	All-in-one microfluidic device for on-site diagnosis of pathogens based on an integrated continuous flow PCR and electrophoresis biochip. <i>Lab on A Chip</i> , 2019, 19, 2663-2668.	6.0	67
2	The development of a portable buoyancy-driven PCR system and its evaluation by capillary electrophoresis. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 779-784.	7.8	49
3	Time-lapse Raman imaging of osteoblast differentiation. <i>Scientific Reports</i> , 2015, 5, 12529.	3.3	44
4	Large-scale growth of sharp gold nano-cones for single-molecule SERS detection. <i>RSC Advances</i> , 2016, 6, 2882-2887.	3.6	36
5	A rapid nucleic acid concentration measurement system with large field of view for a droplet digital PCR microfluidic chip. <i>Lab on A Chip</i> , 2021, 21, 3742-3747.	6.0	26
6	A SERS-based capillary sensor for the detection of mercury ions in environmental water. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 233, 118193.	3.9	25
7	A continuous flow PCR array microfluidic chip applied for simultaneous amplification of target genes of periodontal pathogens. <i>Lab on A Chip</i> , 2022, 22, 733-737.	6.0	21
8	Multiplex amplification of target genes of periodontal pathogens in continuous flow PCR microfluidic chip. <i>Lab on A Chip</i> , 2021, 21, 3159-3164.	6.0	20
9	Quantitative Detection for <i>Porphyromonas gingivalis</i> in Tooth Pocket and Saliva by Portable Electrochemical DNA Sensor Linked with PCR. <i>Electroanalysis</i> , 2014, 26, 2686-2692.	2.9	19
10	Design and fabrication of portable continuous flow PCR microfluidic chip for DNA replication. <i>Biomedical Microdevices</i> , 2020, 22, 5.	2.8	19
11	Quantification of Periodontal Pathogens Cell Counts by Capillary Electrophoresis. <i>Journal of Chromatography A</i> , 2014, 1361, 286-290.	3.7	16
12	Miniaturized gel electrophoresis system for fast separation of nucleic acids. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 153-158.	7.8	15
13	Electromigration behavior of nucleic acids in capillary electrophoresis under pulsed-field conditions. <i>Journal of Chromatography A</i> , 2014, 1331, 100-107.	3.7	14
14	A portable instrument for on-site detection of heavy metal ions in water. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3471-3477.	3.7	14
15	<i>In situ</i> Raman imaging of osteoblastic mineralization. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 157-161.	2.5	13
16	Factors affecting the separation performance of proteins in capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1083, 63-67.	2.3	13
17	The synthesis of Cu ₂ ZnSnS ₄ nanoparticles via an open-air solution route: influences of Zn precursor content. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 25-30.	2.4	12
18	Rapid and quantitative detection of trace Sudan black B in dyed black rice by surface-enhanced Raman spectroscopy (SERS). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 202-206.	3.9	12

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19	Determination and quantification of Escherichia coli by capillary electrophoresis. <i>Analyst</i> , 2014, 139, 6113-6117.	3.5	11
20	Capillary electrophoresis of a wide range of DNA fragments in a mixed solution of hydroxyethyl cellulose. <i>Analytical Methods</i> , 2014, 6, 2473-2477.	2.7	10
21	Capillary electrophoresis of RNA in hydroxyethylcellulose polymer with various molecular weights. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1011, 114-120.	2.3	10
22	Analysis of small interfering RNA by capillary electrophoresis in hydroxyethylcellulose solutions. <i>Electrophoresis</i> , 2015, 36, 1651-1657.	2.4	8
23	Polyethylene Oxide (PEO) and Polyethylene Glycol (PEG) Polymer Sieving Matrix for RNA Capillary Electrophoresis. <i>PLoS ONE</i> , 2015, 10, e0123406.	2.5	8
24	Electrophoresis of periodontal pathogens in poly(ethyleneoxide) solutions with uncoated capillary. <i>Analytical Biochemistry</i> , 2015, 471, 70-72.	2.4	8
25	Rapid identification and quantitation for oral bacteria based on short-end capillary electrophoresis. <i>Talanta</i> , 2016, 160, 425-430.	5.5	8
26	High throughput DNA concentration determination system based on fluorescence technology. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 128904.	7.8	7
27	Activation Energy of the Belousovâ€Žhabotinsky Reaction in a Gel with [Fe(bpy)3] Catalyst. <i>Chemistry Letters</i> , 2014, 43, 673-675.	1.3	6
28	Integrating reductive and synthetic approaches in biology using man-made cell-like compartments. <i>Scientific Reports</i> , 2015, 4, 4722.	3.3	6
29	Gene analysis of multiple oral bacteria by the polymerase chain reaction coupled with capillary polymer electrophoresis. <i>Journal of Separation Science</i> , 2016, 39, 986-992.	2.5	6
30	Raman imaging diagnosis of the early stage differentiation of mouse embryonic stem cell (mESC). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117438.	3.9	6
31	Development of a Paper Actuator with PEDOT:PSS Thin-Films as An Electrode. <i>Actuators</i> , 2014, 3, 285-292.	2.3	5
32	Analysis of the inhibition of nucleic acid dyes on polymerase chain reaction by capillary electrophoresis. <i>Analytical Methods</i> , 2016, 8, 2330-2334.	2.7	5
33	Facile preparation of novel Cuâ€ŽZnâ€ŽS film by spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18085-18089.	2.2	5
34	Capillary electrophoresis of DNA with high resolution based on copoly(pentaerythritoltetra) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T 338811.	5.4	5
35	Quantitative Detection of Ethanol/Acetone in Complex Solutions Using Raman Spectroscopy Based on Headspace Gas Analysis. <i>Applied Spectroscopy</i> , 2018, 72, 280-287.	2.2	4
36	The effect of electrophoretic parameters on separation performance of short DNA fragments. <i>Analytical Biochemistry</i> , 2018, 556, 99-103.	2.4	4

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37	High-Performance Sieving Electrophoresis for Single-Nucleotide Polymorphisms with a Structuring Hydrogel Network. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900385.	2.2	3
38	Perovskite solar cells prepared under infrared irradiation during fabrication process in air ambience. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9535-9542.	2.2	3
39	Feasibility study of paper-based surface enhanced Raman spectroscopy of tear fluids for onsite therapeutic drug monitoring. , 2014, , .		1
40	Non-invasive Video Image-based Analysis Method Coupled to Field Potential Recording for Evaluation of the Drug-induced Effect in Cardiac Tissue. <i>Electrochemistry</i> , 2016, 84, 283-289.	1.4	1
41	CuInS ₂ thin film prepared by molecular-solution printing technology and its photovoltaic properties. <i>Materials Letters</i> , 2016, 170, 44-47.	2.6	1
42	Molecular sieving polymer for DNA/RNA separation in capillary electrophoresis. <i>International Journal of Modern Physics B</i> , 2017, 31, 1744094.	2.0	1
43	Real-time Tracking of DNA Fragment Separation by Smartphone. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	1
44	Study of the peak broadening due to detection in the electrophoretic separation of DNA by CE and microchip CE and the application of image sensor for ultra-small detection cell length. <i>Journal of Separation Science</i> , 2019, 42, 2280-2288.	2.5	1
45	Separation of subcellular fluorescent microspheres by capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1871-1877.	3.7	1
46	The Gene Detection Device for Medical Use. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2012, 132, 365-370.	0.1	0
47	21pm2-F1 Development of Self-Oscillating Gel Pump. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2014, 2014.6, _21pm2-F1-_21pm2-F1-.	0.0	0