

Xianbo Qiu

List of Publications by Year in descending order

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61
papers

1,569
citations

361296

20
h-index

302012

39
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62
all docs

62
docs citations

62
times ranked

1741
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Biomolecular Interaction Process Based on SPR Imaging Method in Microfluidic Chips. Plasmonics, 2022, 17, 621-631.	1.8	4
2	A hand-held, real-time, AI-assisted capillary convection PCR system for point-of-care diagnosis of African swine fever virus. Sensors and Actuators B: Chemical, 2022, 358, 131476.	4.0	6
3	Real-Time Detection of LAMP Products of African Swine Fever Virus Using Fluorescence and Surface Plasmon Resonance Method. Biosensors, 2022, 12, 213.	2.3	3
4	Integration of a multichannel surface plasmon resonance sensor chip and refractive index matching film array for protein detection in human urine. Talanta, 2022, 246, 123533.	2.9	6
5	An Integrated, Real-Time Convective PCR System for Isolation, Amplification, and Detection of Nucleic Acids. Chemosensors, 2022, 10, 271.	1.8	4
6	Development of a portable multiplexed instrument for multi-proteins detection in human urine using surface plasmon resonance. Sensors and Actuators B: Chemical, 2022, 369, 132272.	4.0	3
7	Seepage Time Soft Sensor Model of Nonwoven Fabric Based on the Extreme Learning Machine Integrating Monte Carlo. Sensors, 2021, 21, 2377.	2.1	3
8	Methods and platforms for analysis of nucleic acids from single-cell based on microfluidics. Microfluidics and Nanofluidics, 2021, 25, 87.	1.0	14
9	Rapid PCR powered by microfluidics: A quick review under the background of COVID-19 pandemic. TrAC - Trends in Analytical Chemistry, 2021, 143, 116377.	5.8	65
10	Non-woven fabric-based microfluidic devices with hydrophobic wax barrier. Microsystem Technologies, 2020, 26, 1637-1642.	1.2	6
11	Free convective PCR: From principle study to commercial applicationsâ€”A critical review. Analytica Chimica Acta, 2020, 1108, 177-197.	2.6	27
12	A plasma separator with a multifunctional deformable chamber equipped with a porous membrane for point-of-care diagnostics. Analyst, The, 2020, 145, 6138-6147.	1.7	2
13	An immunoassay cassette with a handheld reader for HIV urine testing in point-of-care diagnostics. Biomedical Microdevices, 2020, 22, 39.	1.4	9
14	Flexible Micropillar Array for Pressure Sensing in High Density Using Image Sensor. Advanced Materials Interfaces, 2020, 7, 1902205.	1.9	11
15	Non-intrusive leak monitoring system for pipeline within a closed space by wireless sensor network. , 2020, , .		2
16	Development of a Portable SPR Sensor for Nucleic Acid Detection. Micromachines, 2020, 11, 526.	1.4	26
17	Programmable thermally actuated wax valve for low-cost nonwoven-based microfluidic systems. Microsystem Technologies, 2020, 26, 3847-3853.	1.2	5
18	Flexible and Stretchable Electronic Skin with High Durability and Shock Resistance via Embedded 3D Printing Technology for Human Activity Monitoring and Personal Healthcare. Advanced Materials Technologies, 2019, 4, 1900315.	3.0	64

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19	Development of a Surface Plasmon Resonance and Fluorescence Imaging System for Biochemical Sensing. <i>Micromachines</i> , 2019, 10, 442.	1.4	14
20	Flexible capacitive pressure sensor with sensitivity and linear measuring range enhanced based on porous composite of carbon conductive paste and polydimethylsiloxane. <i>Nanotechnology</i> , 2019, 30, 455501.	1.3	89
21	Pipeline Leak Detection and Location Based on Model-Free Isolation of Abnormal Acoustic Signals. <i>Energies</i> , 2019, 12, 3172.	1.6	14
22	Pressure Signal Enhancement of Slowly Increasing Leaks Using Digital Compensator Based on Acoustic Sensor. <i>Sensors</i> , 2019, 19, 4317.	2.1	2
23	Real-time capillary convective PCR based on horizontal thermal convection. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	19
24	Performance of convective polymerase chain reaction by doubling time. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 1230-1239.	2.5	12
25	A Light-Weight Deep CNN Object Detection Framework Based on Dense Connections. , 2019, , .		1
26	The Primary Study for the Integration of Wax-Based Microfluidics on Textile Product. , 2019, , .		0
27	Computational Design of a Single Heater Convective Polymerase Chain Reaction for Point-of-Care. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2019, 13, .	0.4	5
28	Rapid enumeration of CD4 ⁺ T lymphocytes using an integrated microfluidic system based on Chemiluminescence image detection at point-of-care testing. <i>Biomedical Microdevices</i> , 2018, 20, 15.	1.4	10
29	A bead-based microfluidic system for joint detection in TORCH screening at point-of-care testing. <i>Microsystem Technologies</i> , 2018, 24, 2007-2015.	1.2	5
30	A Single-Bead-Based, Fully Integrated Microfluidic System for High-Throughput CD4 ⁺ T Lymphocyte Enumeration. <i>SLAS Technology</i> , 2018, 23, 134-143.	1.0	6
31	Smartphone-Based Microfluidic Colorimetric Sensor for Gaseous Formaldehyde Determination with High Sensitivity and Selectivity. <i>Sensors</i> , 2018, 18, 3141.	2.1	31
32	A Low-Cost and Fast Real-Time PCR System Based on Capillary Convection. <i>SLAS Technology</i> , 2017, 22, 13-17.	1.0	17
33	A smartphone-based point-of-care diagnosis of H1N1 with microfluidic convection PCR. <i>Microsystem Technologies</i> , 2017, 23, 2951-2956.	1.2	43
34	A paper-based microfluidic Dot-ELISA system with smartphone for the detection of influenza A. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	41
35	A Smartphone-Based Genotyping Method for Hepatitis B Virus at Point-of-Care Settings. <i>SLAS Technology</i> , 2017, 22, 122-129.	1.0	12
36	Characterization and analysis of real-time capillary convective PCR toward commercialization. <i>Biomicrofluidics</i> , 2017, 11, 024103.	1.2	15

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37	Microfluidic "Pouch" Chips for Immunoassays and Nucleic Acid Amplification Tests. <i>Methods in Molecular Biology</i> , 2017, 1572, 467-488.	0.4	4
38	Instrument-free point-of-care molecular diagnosis of H1N1 based on microfluidic convective PCR. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 738-744.	4.0	47
39	Pouch-Chip Immunoassays and Nucleic Acid Amplification Tests. <i>Advanced Techniques in Biology & Medicine</i> , 2017, 05, .	0.1	0
40	Microfluidic Paper-Based Sample Concentration Using Ion Concentration Polarization with Smartphone Detection. <i>Micromachines</i> , 2016, 7, 199.	1.4	18
41	A fast and low-cost genotyping method for hepatitis B virus based on pattern recognition in point-of-care settings. <i>Scientific Reports</i> , 2016, 6, 28274.	1.6	11
42	Parallel computation for blood cell classification in medical hyperspectral imagery. <i>Measurement Science and Technology</i> , 2016, 27, 095102.	1.4	7
43	Investigation of thiolysis of NBD amines for the development of H ₂ S probes and evaluating the stability of NBD dyes. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11117-11124.	1.5	33
44	Development of a quantifiable optical reader for lateral flow immunoassay. , 2015, , .		2
45	Rational design and synthesis of fast-response NBD-based fluorescent probes for biothiols. <i>Tetrahedron Letters</i> , 2015, 56, 5781-5786.	0.7	28
46	An integrated, cellulose membrane-based PCR chamber. <i>Microsystem Technologies</i> , 2015, 21, 841-850.	1.2	12
47	Prediction and measurement of the electromagnetic environment of high-power medium-wave and short-wave broadcast antennas in far field. <i>Radiation Protection Dosimetry</i> , 2014, 162, 478-486.	0.4	0
48	POINT-OF-CARE TEST FOR C-REACTIVE PROTEIN BY A FLUORESCENCE-BASED LATERAL FLOW IMMUNOASSAY. <i>Instrumentation Science and Technology</i> , 2014, 42, 635-645.	0.9	13
49	A self-heating cartridge for molecular diagnostics. <i>Lab on A Chip</i> , 2011, 11, 2686.	3.1	79
50	An isothermal amplification reactor with an integrated isolation membrane for point-of-care detection of infectious diseases. <i>Analyst</i> , The, 2011, 136, 2069.	1.7	164
51	A portable analyzer for pouch-actuated, immunoassay cassettes. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1529-1535.	4.0	30
52	A portable, integrated analyzer for microfluidic " based molecular analysis. <i>Biomedical Microdevices</i> , 2011, 13, 809-817.	1.4	49
53	A Self-Contained Microfluidic Cassette for the Detection of Nucleic Acids at the Point-of-Care. , 2010, , .		0
54	An integrated, self-contained microfluidic cassette for isolation, amplification, and detection of nucleic acids. <i>Biomedical Microdevices</i> , 2010, 12, 705-719.	1.4	183

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55	A large volume, portable, real-time PCR reactor. Lab on A Chip, 2010, 10, 3170.	3.1	46
56	A PCR reactor with an integrated alumina membrane for nucleic acid isolation. Analyst, The, 2010, 135, 2408.	1.7	53
57	Finger-actuated, self-contained immunoassay cassettes. Biomedical Microdevices, 2009, 11, 1175-1186.	1.4	85
58	A timer-actuated immunoassay cassette for detecting molecular markers in oral fluids. Lab on A Chip, 2009, 9, 768-776.	3.1	93
59	Fault Diagnosis for Dynamic Nonlinear System Based on Kernel Principal Component Analysis. , 2009, , .		2
60	Feedforward Variable Structural Proportional-Integral-Derivative for Temperature Control of Polymerase Chain Reaction. Chinese Journal of Chemical Engineering, 2006, 14, 200-206.	1.7	12
61	New method for rapid evaluation of spheroidisation and inoculation grade of hypereutectic cast iron. International Journal of Cast Metals Research, 2004, 17, 152-156.	0.5	2