

# Xianbo Qiu

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,569  
citations

361296

20  
h-index

302012

39  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1741  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An isothermal amplification reactor with an integrated isolation membrane for point-of-care detection of infectious diseases. <i>Analyst, The</i> , 2011, 136, 2069.	1.7	164
3	A timer-actuated immunoassay cassette for detecting molecular markers in oral fluids. <i>Lab on A Chip</i> , 2009, 9, 768-776.	3.1	93
4	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
5	Finger-actuated, self-contained immunoassay cassettes. <i>Biomedical Microdevices</i> , 2009, 11, 1175-1186.	1.4	85
6	A self-heating cartridge for molecular diagnostics. <i>Lab on A Chip</i> , 2011, 11, 2686.	3.1	79
7	Rapid PCR powered by microfluidics: A quick review under the background of COVID-19 pandemic. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116377.	5.8	65
8	Flexible and Stretchable Electronic Skin with High Durability and Shock Resistance via Embedded 3D Printing Technology for Human Activity Monitoring and Personal Healthcare. <i>Advanced Materials Technologies</i> , 2019, 4, 1900315.	3.0	64
9	A PCR reactor with an integrated alumina membrane for nucleic acid isolation. <i>Analyst, The</i> , 2010, 135, 2408.	1.7	53
10	A portable, integrated analyzer for microfluidic “ based molecular analysis. <i>Biomedical Microdevices</i> , 2011, 13, 809-817.	1.4	49
11	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
12	A large volume, portable, real-time PCR reactor. <i>Lab on A Chip</i> , 2010, 10, 3170.	3.1	46
13	A smartphone-based point-of-care diagnosis of H1N1 with microfluidic convection PCR. <i>Microsystem Technologies</i> , 2017, 23, 2951-2956.	1.2	43
14	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
15	Investigation of thiolysis of NBD amines for the development of H <sub>2</sub> S probes and evaluating the stability of NBD dyes. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11117-11124.	1.5	33
16	Smartphone-Based Microfluidic Colorimetric Sensor for Gaseous Formaldehyde Determination with High Sensitivity and Selectivity. <i>Sensors</i> , 2018, 18, 3141.	2.1	31
17	A portable analyzer for pouch-actuated, immunoassay cassettes. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1529-1535.	4.0	30
18	Rational design and synthesis of fast-response NBD-based fluorescent probes for biothiols. <i>Tetrahedron Letters</i> , 2015, 56, 5781-5786.	0.7	28

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19	Free convective PCR: From principle study to commercial applicationsâ€”A critical review. <i>Analytica Chimica Acta</i> , 2020, 1108, 177-197.	2.6	27
20	Development of a Portable SPR Sensor for Nucleic Acid Detection. <i>Micromachines</i> , 2020, 11, 526.	1.4	26
21	Real-time capillary convective PCR based on horizontal thermal convection. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	19
22	Microfluidic Paper-Based Sample Concentration Using Ion Concentration Polarization with Smartphone Detection. <i>Micromachines</i> , 2016, 7, 199.	1.4	18
23	A Low-Cost and Fast Real-Time PCR System Based on Capillary Convection. <i>SLAS Technology</i> , 2017, 22, 13-17.	1.0	17
24	Characterization and analysis of real-time capillary convective PCR toward commercialization. <i>Biomicrofluidics</i> , 2017, 11, 024103.	1.2	15
25	Development of a Surface Plasmon Resonance and Fluorescence Imaging System for Biochemical Sensing. <i>Micromachines</i> , 2019, 10, 442.	1.4	14
26	Pipeline Leak Detection and Location Based on Model-Free Isolation of Abnormal Acoustic Signals. <i>Energies</i> , 2019, 12, 3172.	1.6	14
27	Methods and platforms for analysis of nucleic acids from single-cell based on microfluidics. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 87.	1.0	14
28	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
29	Feedforward Variable Structural Proportional-Integral-Derivative for Temperature Control of Polymerase Chain Reaction. <i>Chinese Journal of Chemical Engineering</i> , 2006, 14, 200-206.	1.7	12
30	An integrated, cellulose membrane-based PCR chamber. <i>Microsystem Technologies</i> , 2015, 21, 841-850.	1.2	12
31	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
32	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
33	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
34	Flexible Micropillar Array for Pressure Sensing in High Density Using Image Sensor. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902205.	1.9	11
35	Rapid enumeration of CD4â€”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
36	An immunoassay cassette with a handheld reader for HIV urine testing in point-of-care diagnostics. <i>Biomedical Microdevices</i> , 2020, 22, 39.	1.4	9

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37	Parallel computation for blood cell classification in medical hyperspectral imagery. <i>Measurement Science and Technology</i> , 2016, 27, 095102.	1.4	7
38	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
39	Non-woven fabric-based microfluidic devices with hydrophobic wax barrier. <i>Microsystem Technologies</i> , 2020, 26, 1637-1642.	1.2	6
40	A hand-held, real-time, AI-assisted capillary convection PCR system for point-of-care diagnosis of African swine fever virus. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131476.	4.0	6
41	Integration of a multichannel surface plasmon resonance sensor chip and refractive index matching film array for protein detection in human urine. <i>Talanta</i> , 2022, 246, 123533.	2.9	6
42	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
43	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
44	Programmable thermally actuated wax valve for low-cost nonwoven-based microfluidic systems. <i>Microsystem Technologies</i> , 2020, 26, 3847-3853.	1.2	5
45	Microfluidic "Pouch" Chips for Immunoassays and Nucleic Acid Amplification Tests. <i>Methods in Molecular Biology</i> , 2017, 1572, 467-488.	0.4	4
46	Analysis of Biomolecular Interaction Process Based on SPR Imaging Method in Microfluidic Chips. <i>Plasmonics</i> , 2022, 17, 621-631.	1.8	4
47	An Integrated, Real-Time Convective PCR System for Isolation, Amplification, and Detection of Nucleic Acids. <i>Chemosensors</i> , 2022, 10, 271.	1.8	4
48	Seepage Time Soft Sensor Model of Nonwoven Fabric Based on the Extreme Learning Machine Integrating Monte Carlo. <i>Sensors</i> , 2021, 21, 2377.	2.1	3
49	Real-Time Detection of LAMP Products of African Swine Fever Virus Using Fluorescence and Surface Plasmon Resonance Method. <i>Biosensors</i> , 2022, 12, 213.	2.3	3
50	Development of a portable multiplexed instrument for multi-proteins detection in human urine using surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132272.	4.0	3
51	New method for rapid evaluation of spheroidisation and inoculation grade of hypereutectic cast iron. <i>International Journal of Cast Metals Research</i> , 2004, 17, 152-156.	0.5	2
52	Fault Diagnosis for Dynamic Nonlinear System Based on Kernel Principal Component Analysis. , 2009, , .		2
53	Development of a quantifiable optical reader for lateral flow immunoassay. , 2015, , .		2
54	Pressure Signal Enhancement of Slowly Increasing Leaks Using Digital Compensator Based on Acoustic Sensor. <i>Sensors</i> , 2019, 19, 4317.	2.1	2

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55	A plasma separator with a multifunctional deformable chamber equipped with a porous membrane for point-of-care diagnostics. <i>Analyst, The</i> , 2020, 145, 6138-6147.	1.7	2
56	Non-intrusive leak monitoring system for pipeline within a closed space by wireless sensor network. , 2020, , .		2
57	A Light-Weight Deep CNN Object Detection Framework Based on Dense Connections. , 2019, , .		1
58	A Self-Contained Microfluidic Cassette for the Detection of Nucleic Acids at the Point-of-Care. , 2010, , .		0
59	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
60	Pouch-Chip Immunoassays and Nucleic Acid Amplification Tests. <i>Advanced Techniques in Biology &amp; Medicine</i> , 2017, 05, .	0.1	0
61	The Primary Study for the Integration of Wax-Based Microfluidics on Textile Product. , 2019, , .		0