

Qun Fang

List of Publications by Year in descending order

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58
papers

3,484
citations

172457

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63
times ranked

5574
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated system for automated measurement of airborne pollen based on electrostatic enrichment and image analysis with machine vision. <i>Talanta</i> , 2022, 237, 122908.	5.5	2
2	Enantioselective Reductive Cross-Coupling of Aryl/Alkenyl Bromides with Benzylic Chlorides via Photoredox/Biimidazole Nickel Dual Catalysis. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1033-1038.	4.9	21
3	Nanoliter-scale liquid metering and droplet generation based on a capillary array for high throughput screening. <i>Talanta</i> , 2021, 221, 121613.	5.5	3
4	A flexible and cost-effective manual droplet operation platform for miniaturized cell assays and single cell analysis. <i>Talanta</i> , 2021, 224, 121874.	5.5	2
5	Research Progress of Microfluidic Technique in Synthesis of Micro/Nano Materials. <i>Acta Chimica Sinica</i> , 2021, 79, 809.	1.4	4
6	A microfluidic robot for rare cell sorting based on machine vision identification and multi-step sorting strategy. <i>Talanta</i> , 2021, 226, 122136.	5.5	10
7	Petrel Probe: An Integrated In Situ Sampling and Injection Interface for Fast, High-Efficiency Liquid Chromatography-Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2021, 93, 10114-10121.	6.5	3
8	Handheld laser-induced fluorescence detection systems with different optical configurations. <i>Talanta</i> , 2021, 230, 122329.	5.5	8
9	LIFGO: A modular laser-induced fluorescence detection system based on plug-in blocks. <i>Talanta</i> , 2021, 239, 123063.	5.5	4
10	Nanoliter-Scale Droplet-Droplet Microfluidic Microextraction Coupled with MALDI-TOF Mass Spectrometry for Metabolite Analysis of Cell Droplets. <i>Analytical Chemistry</i> , 2020, 92, 8759-8767.	6.5	24
11	LC-Swan Probe: An Integrated In Situ Sampling Interface for Liquid Chromatography Separation and Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2020, 92, 9214-9222.	6.5	12
12	Automated, flexible and versatile manipulation of nanoliter-to-picoliter droplets based on sequential operation droplet array technique. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115812.	11.4	32
13	Consecutive and automatic detection of multi-gene mutations from colorectal cancer samples by coupling droplet array-based capillary electrophoresis and PCR-RFLP. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3037-3049.	3.7	1
14	A minimalist approach for generating picoliter to nanoliter droplets based on an asymmetrical beveled capillary and its application in digital PCR assay. <i>Talanta</i> , 2020, 217, 120997.	5.5	17
15	Miniaturization of the Whole Process of Protein Crystallographic Analysis by a Microfluidic Droplet Robot: From Nanoliter-Scale Purified Proteins to Diffraction-Quality Crystals. <i>Analytical Chemistry</i> , 2019, 91, 10132-10140.	6.5	13
16	Forming a Large-Scale Droplet Array in a Microcage Array Chip for High-Throughput Screening. <i>Analytical Chemistry</i> , 2019, 91, 10757-10763.	6.5	34
17	Nanoliter Quantitative High-Throughput Screening with Large-Scale Tunable Gradients Based on a Microfluidic Droplet Robot under Unilateral Dispersion Mode. <i>Analytical Chemistry</i> , 2019, 91, 4995-5003.	6.5	36
18	Mapping the Mouse Cell Atlas by Microwell-Seq. <i>Cell</i> , 2018, 172, 1091-1107.e17.	28.9	1,068

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19	A Microfluidic Droplet Array System for Cell-Based Drug Combination Screening. <i>Methods in Molecular Biology</i> , 2018, 1771, 203-211.	0.9	9
20	Quantitative Identification of Basic Growth Channels for Formation of Monodisperse Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 5474-5484.	13.7	39
21	Manipulating Femtoliter to Picoliter Droplets by Pins for Single Cell Analysis and Quantitative Biological Assay. <i>Analytical Chemistry</i> , 2018, 90, 5810-5817.	6.5	43
22	A Low-Cost Palmtop High-Speed Capillary Electrophoresis Bioanalyzer with Laser Induced Fluorescence Detection. <i>Scientific Reports</i> , 2018, 8, 1791.	3.3	44
23	Droplet Array-Based 3D Coculture System for High-Throughput Tumor Angiogenesis Assay. <i>Analytical Chemistry</i> , 2018, 90, 3253-3261.	6.5	38
24	A robust and extendable sheath flow interface with minimal dead volume for coupling CE with ESI-MS. <i>Talanta</i> , 2018, 180, 376-382.	5.5	20
25	Nanoliter-Scale Oil-Air-Droplet Chip-Based Single Cell Proteomic Analysis. <i>Analytical Chemistry</i> , 2018, 90, 5430-5438.	6.5	167
26	Maintenance of human haematopoietic stem and progenitor cells in vitro using a chemical cocktail. <i>Cell Discovery</i> , 2018, 4, 59.	6.7	13
27	Femtomole-Scale High-Throughput Screening of Protein Ligands with Droplet-Based Thermal Shift Assay. <i>Analytical Chemistry</i> , 2017, 89, 6678-6685.	6.5	19
28	3D-Printed High-Density Droplet Array Chip for Miniaturized Protein Crystallization Screening under Vapor Diffusion Mode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11837-11845.	8.0	30
29	Droplet-Based Multivolume Digital Polymerase Chain Reaction by a Surface-Assisted Multifactor Fluid Segmentation Approach. <i>Analytical Chemistry</i> , 2017, 89, 822-829.	6.5	64
30	Three-Dimensional Cell Culture and Drug Testing in a Microfluidic Sidewall-Attached Droplet Array. <i>Analytical Chemistry</i> , 2017, 89, 10153-10157.	6.5	61
31	Direct Surface and Droplet Microsampling for Electrospray Ionization Mass Spectrometry Analysis with an Integrated Dual-Probe Microfluidic Chip. <i>Analytical Chemistry</i> , 2017, 89, 9009-9016.	6.5	31
32	A compact shortâ€capillary based highâ€speed capillary electrophoresis bioanalyzer. <i>Electrophoresis</i> , 2016, 37, 2376-2383.	2.4	21
33	Nonâ€tapered PTFE capillary as robust and stable nanoelectrospray emitter for electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 62-67.	1.5	4
34	Microdroplet chain array for cell migration assays. <i>Lab on A Chip</i> , 2016, 16, 4658-4665.	6.0	37
35	A handheld laser-induced fluorescence detector for multiple applications. <i>Talanta</i> , 2016, 150, 135-141.	5.5	46
36	Microfluidics for cell-based high throughput screening platformsâ€”A review. <i>Analytica Chimica Acta</i> , 2016, 903, 36-50.	5.4	216

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37	Printing 2-Dimensional Droplet Array for Single-Cell Reverse Transcription Quantitative PCR Assay with a Microfluidic Robot. <i>Scientific Reports</i> , 2015, 5, 9551.	3.3	91
38	Establishment of a finite element model for extracting chemical reaction kinetics in a micro-flow injection system with high throughput sampling. <i>Talanta</i> , 2015, 140, 176-182.	5.5	5
39	Swan Probe: A Nanoliter-Scale and High-Throughput Sampling Interface for Coupling Electrospray Ionization Mass Spectrometry with Microfluidic Droplet Array and Multiwell Plate. <i>Analytical Chemistry</i> , 2014, 86, 10796-10803.	6.5	56
40	Nanoliter-Scale Protein Crystallization and Screening with a Microfluidic Droplet Robot. <i>Scientific Reports</i> , 2014, 4, 5046.	3.3	68
41	Cell-Based Drug Combination Screening with a Microfluidic Droplet Array System. <i>Analytical Chemistry</i> , 2013, 85, 6740-6747.	6.5	117
42	Sequential Operation Droplet Array: An Automated Microfluidic Platform for Picoliter-Scale Liquid Handling, Analysis, and Screening. <i>Analytical Chemistry</i> , 2013, 85, 6723-6731.	6.5	84
43	Droplet-Based Microfluidic Flow Injection System with Large-Scale Concentration Gradient by a Single Nanoliter-Scale Injection for Enzyme Inhibition Assay. <i>Analytical Chemistry</i> , 2012, 84, 446-452.	6.5	95
44	Microfluidic sequential injection analysis system based on polydimethylsiloxane (PDMS) chip with integrated pneumatic-actuated valves. <i>Science China Chemistry</i> , 2012, 55, 531-536.	8.2	2
45	Nanoliter droplet array for microRNA detection based on enzymatic stem-loop probes ligation and SYBR Green real-time PCR. <i>Talanta</i> , 2011, 85, 1760-1765.	5.5	21
46	Nanolitre droplet array for real time reverse transcription polymerase chain reaction. <i>Lab on A Chip</i> , 2011, 11, 1545.	6.0	55
47	Fabrication of low-melting-point alloy microelectrode and monolithic spray tip for integration of glass chip with electrospray ionization mass spectrometry. <i>Talanta</i> , 2010, 81, 1069-1075.	5.5	17
48	Integrated Droplet Analysis System with Electrospray Ionization-Mass Spectrometry Using a Hydrophilic Tongue-Based Droplet Extraction Interface. <i>Analytical Chemistry</i> , 2010, 82, 8361-8366.	6.5	80
49	Capillary-based microfluidic analysis systems. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 63-66.	3.7	10
50	A microfluidic chip based sequential injection system with trapped droplet liquid-liquid extraction and chemiluminescence detection. <i>Lab on A Chip</i> , 2006, 6, 1387-1389.	6.0	52
51	Microfluidic Sequential Injection Analysis in a Short Capillary. <i>Analytical Chemistry</i> , 2006, 78, 6404-6410.	6.5	50
52	A microfluidic chip based liquid-liquid extraction system with microporous membrane. <i>Analytica Chimica Acta</i> , 2006, 556, 151-156.	5.4	77
53	Microfluidic chip-based liquid-liquid extraction and preconcentration using a subnanoliter-droplet trapping technique. <i>Lab on A Chip</i> , 2005, 5, 719-725.	6.0	80
54	Sample introduction for microfluidic systems. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 49-51.	3.7	16

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55	Bonding of Glass Microfluidic Chips at Room Temperatures. <i>Analytical Chemistry</i> , 2004, 76, 5597-5602.	6.5	156
56	A High-Throughput Continuous Sample Introduction Interface for Microfluidic Chip-based Capillary Electrophoresis Systems. <i>Analytical Chemistry</i> , 2002, 74, 1223-1231.	6.5	102
57	Development of a low-cost microfluidic capillary-electrophoresis system coupled with flow-injection and sequential-injection sample introduction (review). <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 978-983.	1.5	22
58	Developments in Flow Injection-Capillary Electrophoresis Systems.. <i>Analytical Sciences</i> , 2000, 16, 197-203.	1.6	25