

# Gang Li

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,826  
citations

331670

21  
h-index

265206

42  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2812  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Superhydrophobic surfaces fabricated by microstructuring of stainless steel using a femtosecond laser. <i>Applied Surface Science</i> , 2009, 256, 61-66.   | 6.1  | 371       |
| 2  | A microfluidic droplet digital PCR for simultaneous detection of pathogenic <i>Escherichia coli</i> O157 and <i>Listeria monocytogenes</i> . <i>Biosensors and Bioelectronics</i> , 2015, 74, 770-777.                    | 10.1 | 145       |
| 3  | Magnetically Responsive Superhydrophobic Surface: In Situ Reversible Switching of Water Droplet Wettability and Adhesion for Droplet Manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20150-20158. | 8.0  | 145       |
| 4  | A microfluidic chip integrated with a high-density PDMS-based microfiltration membrane for rapid isolation and detection of circulating tumor cells. <i>Biosensors and Bioelectronics</i> , 2015, 71, 380-386.            | 10.1 | 143       |
| 5  | Highly sensitive enumeration of circulating tumor cells in lung cancer patients using a size-based filtration microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2014, 51, 213-218.                                | 10.1 | 92        |
| 6  | Absolute quantification of lung cancer related microRNA by droplet digital PCR. <i>Biosensors and Bioelectronics</i> , 2015, 74, 836-842.   | 10.1 | 87        |
| 7  | A microfluidic chip based on surfactant-doped polydimethylsiloxane (PDMS) in a sandwich configuration for low-cost and robust digital PCR. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 414-422.                 | 7.8  | 80        |
| 8  | Bead-based microarray immunoassay for lung cancer biomarkers using quantum dots as labels. <i>Biosensors and Bioelectronics</i> , 2016, 80, 300-306.  | 10.1 | 58        |
| 9  | A replaceable modular pump for portable microfluidic applications. <i>Biomicrofluidics</i> , 2012, 6, 14118-1411816.  | 2.4  | 51        |
| 10 | A Rapid and Low-Cost Procedure for Fabrication of Glass Microfluidic Devices. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1193-1200.   | 2.5  | 49        |
| 11 | Integration of Au Nanorods With Flexible Thin-Film Microelectrode Arrays for Improved Neural Interfaces. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 88-96.  | 2.5  | 46        |
| 12 | A self-digitization chip integrated with hydration layer for low-cost and robust digital PCR. <i>Analytica Chimica Acta</i> , 2019, 1055, 65-73.  | 5.4  | 44        |
| 13 | Desktop aligner for fabrication of multilayer microfluidic devices. <i>Review of Scientific Instruments</i> , 2015, 86, 075008.   | 1.3  | 37        |
| 14 | Low-cost rapid prototyping of glass microfluidic devices using a micromilling technique. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.   | 2.2  | 36        |
| 15 | Programmable droplet manipulation by combining a superhydrophobic magnetic film and an electromagnetic pillar array. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 892-901.                                       | 7.8  | 35        |
| 16 | A Compact Disk-Like Centrifugal Microfluidic System for High-Throughput Nanoliter-Scale Protein Crystallization Screening. <i>Analytical Chemistry</i> , 2010, 82, 4362-4369.   | 6.5  | 33        |
| 17 | Fabrication of flexible microelectrode arrays integrated with microfluidic channels for stable neural interfaces. <i>Sensors and Actuators A: Physical</i> , 2013, 197, 9-14.   | 4.1  | 33        |
| 18 | A facile microfluidic strategy for measuring interfacial tension. <i>Applied Physics Letters</i> , 2013, 103, .   | 3.3  | 30        |

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|----|---|-----|-----------|
| 19 | Automatic magnetic manipulation of droplets on an open surface using a superhydrophobic electromagnet needle. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 409-418.        | 7.8 | 28        |
| 20 | Investigation and improvement of reversible microfluidic devices based on glass-PDMS-glass sandwich configuration. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 83-90.         | 2.2 | 27        |
| 21 | Fast and robust sample self-digitization for digital PCR. <i>Analytica Chimica Acta</i> , 2020, 1107, 127-134.  | 5.4 | 25        |
| 22 | A novel magnet-actuated droplet manipulation platform using a floating ferrofluid film. <i>Scientific Reports</i> , 2017, 7, 15705.   | 3.3 | 22        |
| 23 | A centrifugal microfluidic device for screening protein crystallization conditions by vapor diffusion. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 105-111.               | 7.8 | 19        |
| 24 | High-Performance Size-Based Microdevice for the Detection Of Circulating Tumor Cells from Peripheral Blood in Rectal Cancer Patients. <i>PLoS ONE</i> , 2013, 8, e75865.            | 2.5 | 18        |
| 25 | A facile method for the fabrication of glass-PDMS-glass sandwich microfluidic devices by sacrificial molding. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 364-371.        | 7.8 | 16        |
| 26 | A power-free, parallel loading microfluidic reactor array for biochemical screening. <i>Scientific Reports</i> , 2018, 8, 13664.  | 3.3 | 16        |
| 27 | A superhydrophobic chip integrated with an array of medium reservoirs for long-term hanging drop spheroid culture. <i>Acta Biomaterialia</i> , 2021, 135, 234-242.                  | 8.3 | 13        |
| 28 | A new process for fabricating tip-shaped polymer microstructure array with patterned metallic coatings. <i>Sensors and Actuators A: Physical</i> , 2009, 150, 296-301.              | 4.1 | 12        |
| 29 | Wafer-Scale and Cost-Effective Manufacturing of Controllable Nanogap Arrays for Highly Sensitive SERS Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3580-3590. | 8.0 | 12        |
| 30 | Numerical analysis of an electrokinetic double-focusing injection technique for microchip CE. <i>Electrophoresis</i> , 2006, 27, 5009-5019.   | 2.4 | 11        |
| 31 | A droplet-based pH regulator in microfluidics. <i>Lab on A Chip</i> , 2014, 14, 1917-1922.  | 6.0 | 11        |
| 32 | Direct detection of cancer biomarkers in blood using a "place n play" modular polydimethylsiloxane pump. <i>Biomicrofluidics</i> , 2013, 7, 34105.                                  | 2.4 | 10        |
| 33 | A hand-powered microfluidic system for portable and low-waste sample discretization. <i>Lab on A Chip</i> , 2021, 21, 3429-3437.  | 6.0 | 10        |
| 34 | Investigating the Nucleation Kinetics of Calcium Carbonate Using a Zero-Water-Loss Microfluidic Chip. <i>Crystal Growth and Design</i> , 2020, 20, 2787-2795.                       | 3.0 | 9         |
| 35 | Design, simulation, and optimization of a miniaturized device for size-fractionated DNA extraction. <i>Electrophoresis</i> , 2007, 28, 4661-4667.                                   | 2.4 | 8         |
| 36 | An equipment-free polydimethylsiloxane microfluidic spotter for fabrication of microarrays. <i>Biomicrofluidics</i> , 2014, 8, 026501.  | 2.4 | 8         |

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|----|---|-----|-----------|
| 37 | Optimization of micromilled channels for microfluidic applications using gas-blowing-assisted PDMS coating. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.                            | 2.2 | 8         |
| 38 | A facile and rapid route to self-digitization of samples into a high density microwell array for digital bioassays. <i>Talanta</i> , 2021, 233, 122589.                                     | 5.5 | 7         |
| 39 | CNT-coated magnetic self-assembled elastomer micropillar arrays for sensing broad-range pressures. <i>Nanotechnology</i> , 2020, 31, 435501.  | 2.6 | 4         |
| 40 | Fabrication of Pyramid-Shaped Three-Dimensional Flexible Microelectrode Array for Improved Neural Interfacing. <i>Sensor Letters</i> , 2009, 7, 102-109.                                    | 0.4 | 3         |
| 41 | A universal approach for irreversible bonding of rigid substrate-based microfluidic devices at room temperature. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.                       | 2.2 | 2         |
| 42 | A Sessile Drop Method for Facile and Robust Spheroid Cultures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100972.   | 3.7 | 2         |
| 43 | A sandwich SERS detection system based on optical convergence and synergistic enhancement effects. <i>Analyst, The</i> , 2021, 146, 6132-6138.  | 3.5 | 2         |
| 44 | Oil-Triggered and Template-Confined Dewetting for Facile and Low-Loss Sample Digitization. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20813-20822.                           | 8.0 | 2         |
| 45 | A micromachine-based assembly of tungsten multichannel electrodes for neural recording. , 2008, , .   |     | 1         |
| 46 | Development of Flexible Neural Microelectrode Arrays Based on Parylene for Retinal Prosthesis. , 2008, , .  |     | 1         |
| 47 | Curved SU-8 structure fabrication based on the acid-diffusion effect. , 2011, , .   |     | 1         |
| 48 | In vitro Biocompatibility of a Platinum-Electrode Embedded Photosensitive Polyimide (Durimide) Retinal Prosthesis. <i>Current Eye Research</i> , 2012, 37, 1036-1044.                       | 1.5 | 1         |
| 49 | Nanogap Electrode-Enabled Versatile Electrokinetic Manipulation of Nanometric Species in Fluids. <i>Biosensors</i> , 2022, 12, 451.   | 4.7 | 1         |
| 50 | Design of a PMMA Chip for Selective Extraction of Size-Fractioned DNA. , 2006, , .  |     | 0         |
| 51 | A SANDWICH-INJECTION METHOD FOR MICROCHIP ELECTROPHORESIS. <i>Nano</i> , 2007, 02, 373-381.   | 1.0 | 0         |
| 52 | Encapsulation and Evaluation of a MEMS-Based Flexible Microelectrode Array for Acute In-Vivo Experiment. , 2009, , .  |     | 0         |
| 53 | Fabrication of Carbon Nanowire Arrays Using Inhomogeneous Dissolution-Diffusion Kinetics and Photoresist Pyrolysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6621-6627. | 0.9 | 0         |
| 54 | A Flexible Thin-film Microelectrode for Optic-Nerve Visual Prosthesis. , 2008, , 317-322.   |     | 0         |