

Qiao Lin

List of Publications by Year in descending order

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92
papers

2,023
citations

218677

26
h-index

254184

43
g-index

92
all docs

92
docs citations

92
times ranked

2960
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based fully integrated portable nanosensing system for on-line detection of cytokine biomarkers in saliva. <i>Biosensors and Bioelectronics</i> , 2019, 134, 16-23.	10.1	115
2	A Fast and Effective Microfluidic Spraying-Plunging Method for High-Resolution Single-Particle Cryo-EM. <i>Structure</i> , 2017, 25, 663-670.e3.	3.3	112
3	Real-Time Monitoring of Insulin Using a Graphene Field-Effect Transistor Aptameric Nanosensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27504-27511.	8.0	102
4	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. <i>Light: Science and Applications</i> , 2018, 7, 67.	16.6	98
5	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. <i>Nano Letters</i> , 2018, 18, 3807-3813.	9.1	88
6	An Ultraflexible and Stretchable Aptameric Graphene Nanosensor for Biomarker Detection and Monitoring. <i>Advanced Functional Materials</i> , 2019, 29, 1905202.	14.9	88
7	A Flexible and Regenerative Aptameric Graphene-Nafion Biosensor for Cytokine Storm Biomarker Monitoring in Undiluted Biofluids toward Wearable Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005958.	14.9	86
8	A MEMS Thermal Biosensor for Metabolic Monitoring Applications. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 318-327.	2.5	80
9	A MEMS affinity glucose sensor using a biocompatible glucose-responsive polymer. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 603-609.	7.8	76
10	Measurement of cytokine biomarkers using an aptamer-based affinity graphene nanosensor on a flexible substrate toward wearable applications. <i>Nanoscale</i> , 2018, 10, 21681-21688.	5.6	69
11	High-Solid-Gate Transistor Configured Graphene Biosensor with Fully Integrated Structure and Enhanced Sensitivity. <i>Advanced Functional Materials</i> , 2016, 26, 7668-7678.	14.9	54
12	An aptameric graphene nanosensor for label-free detection of small-molecule biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 71, 222-229.	10.1	53
13	A graphene-based affinity nanosensor for detection of low-charge and low-molecular-weight molecules. <i>Nanoscale</i> , 2016, 8, 5815-5819.	5.6	53
14	Emerging applications of aptamers to micro- and nanoscale biosensing. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 347-362.	2.2	49
15	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. <i>ACS Photonics</i> , 2019, 6, 501-509.	6.6	47
16	A graphene aptasensor for biomarker detection in human serum. <i>Electrochimica Acta</i> , 2018, 290, 356-363.	5.2	46
17	Measurements of aptamer-protein binding kinetics using graphene field-effect transistors. <i>Nanoscale</i> , 2019, 11, 12573-12581.	5.6	42
18	Selective detection of water pollutants using a differential aptamer-based graphene biosensor. <i>Biosensors and Bioelectronics</i> , 2019, 126, 59-67.	10.1	41

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19	Modulating the Linker Immobilization Density on Aptameric Graphene Field Effect Transistors Using an Electric Field. <i>ACS Sensors</i> , 2020, 5, 2503-2513.	7.8	40
20	An aptamer-based microfluidic device for thermally controlled affinity extraction. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 479-487.	2.2	39
21	A Microfluidic Device for Continuous-Flow Magnetically Controlled Capture and Isolation of Microparticles. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 743-751.	2.5	33
22	An integrated planar magnetic micropump. <i>Microelectronic Engineering</i> , 2014, 117, 35-40.	2.4	32
23	A planar PDMS micropump using in-contact minimized-leakage check valves. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 095033.	2.6	31
24	A Capacitive MEMS Viscometric Sensor for Affinity Detection of Glucose. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1246-1254.	2.5	30
25	Blu-ray based optomagnetic aptasensor for detection of small molecules. <i>Biosensors and Bioelectronics</i> , 2016, 75, 396-403.	10.1	29
26	A bead-based microfluidic approach to integrated single-cell gene expression analysis by quantitative RT-PCR. <i>RSC Advances</i> , 2015, 5, 4886-4893.	3.6	28
27	A solid dielectric gated graphene nanosensor in electrolyte solutions. <i>Applied Physics Letters</i> , 2015, 106, 123503.	3.3	27
28	A Compliance-Based Microflow Stabilizer. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 539-546.	2.5	25
29	A dielectric affinity microbiosensor. <i>Applied Physics Letters</i> , 2010, 96, 033701.	3.3	24
30	Nucleic acid isolation and enrichment on a microchip. <i>Sensors and Actuators A: Physical</i> , 2013, 195, 183-190.	4.1	23
31	Integrated Microfluidic Isolation of Aptamers Using Electrophoretic Oligonucleotide Manipulation. <i>Scientific Reports</i> , 2016, 6, 26139.	3.3	22
32	A hydrogel-based glucose affinity microsensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 992-998.	7.8	22
33	A MEMS Differential-Scanning-Calorimetric Sensor for Thermodynamic Characterization of Biomolecules. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1165-1171.	2.5	20
34	Microfluidic flow-free generation of chemical concentration gradients. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 334-341.	7.8	20
35	Thermally tunable polymer microlenses. <i>Applied Physics Letters</i> , 2008, 92, 251904.	3.3	19
36	Integrated Microfluidic Selex Using Free Solution Electrokinetics. <i>Journal of the Electrochemical Society</i> , 2017, 164, B3122-B3129.	2.9	14

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37	Mathematical approaches in estimating aptamer-target binding affinity. <i>Analytical Biochemistry</i> , 2020, 600, 113742.	2.4	14
38	An Aptameric Microfluidic System for Specific Purification, Enrichment, and Mass Spectrometric Detection of Biomolecules. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1198-1207.	2.5	13
39	A microfabrication-based approach to quantitative isothermal titration calorimetry. <i>Biosensors and Bioelectronics</i> , 2016, 78, 438-446.	10.1	13
40	An Integrated Microfluidic SELEX Approach Using Combined Electrokinetic and Hydrodynamic Manipulation. <i>SLAS Technology</i> , 2017, 22, 63-72.	1.9	12
41	A MEMS-based approach to single nucleotide polymorphism genotyping. <i>Sensors and Actuators A: Physical</i> , 2013, 195, 175-182.	4.1	11
42	Microcantilever-based label-free characterization of temperature-dependent biomolecular affinity binding. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 653-659.	7.8	11
43	A MEMS Dielectric Affinity Glucose Biosensor. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 14-20.	2.5	11
44	Exploiting electrostatic shielding-effect of metal nanoparticles to recognize uncharged small molecule affinity with label-free graphene electronic biosensor. <i>Biosensors and Bioelectronics</i> , 2019, 129, 93-99.	10.1	11
45	A Microfluidic Chip with Double-Slit Arrays for Enhanced Capture of Single Cells. <i>Micromachines</i> , 2018, 9, 157.	2.9	9
46	Thermally Tunable Polymer Microlenses for Biological Imaging. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1444-1449.	2.5	8
47	Bead-based polymerase chain reaction on a microchip. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 749-760.	2.2	8
48	A microfluidic approach to parallelized transcriptional profiling of single cells. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1429-1440.	2.2	8
49	Mathematical model for biomolecular quantification using large-area surface-enhanced Raman spectroscopy mapping. <i>RSC Advances</i> , 2015, 5, 85845-85853.	3.6	8
50	A MEMS differential scanning calorimeter for thermodynamic characterization of biomolecules. , 2011, , .		7
51	A mechanically tunable microfluidic cell-trapping device. <i>Sensors and Actuators A: Physical</i> , 2014, 215, 197-203.	4.1	7
52	A microfluidic device for multiplex single-nucleotide polymorphism genotyping. <i>RSC Advances</i> , 2014, 4, 4269-4277.	3.6	7
53	Isolation of thermally sensitive protein-binding oligonucleotides on a microchip. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 795-804.	2.2	7
54	A 3D microfluidic device for carbon capture microcapsules production. , 2018, , .		7

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55	Microcantilever-based label-free thermal characterization of biomolecular affinity binding. , 2010, , .		6
56	Isothermal titration calorimetry in a polymeric microdevice. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	6
57	Microfabrication-based isothermal titration calorimetry using a combined in-mixing and post-mixing titration approach. Analytical Methods, 2018, 10, 4665-4670.	2.7	6
58	Nanowires in Flexible Sensors: Structure is Becoming a Key in Controlling the Sensing Performance. Advanced Materials Technologies, 2022, 7, .	5.8	6
59	A capacitively based MEMS affinity glucose sensor. , 2009, , .		5
60	A biocompatible affinity MEMS sensor for continuous monitoring of glucose. , 2009, , .		5
61	Light-directed migration of D. discoideum slugs in microfabricated confinements. Sensors and Actuators A: Physical, 2012, 188, 312-319.	4.1	5
62	Isothermal titration calorimetry in a 3D-printed microdevice. Biomedical Microdevices, 2019, 21, 96.	2.8	5
63	A solid-gated graphene fet sensor for PH measurements. , 2015, , .		4
64	A dielectric affinity glucose microsensor using hydrogel-functionalized coplanar electrodes. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	4
65	Single-Molecule Detection in Temperature-Controlled Microchannels. , 2007, , .		3
66	Isolation of thermally sensitive aptamers on a microchip. , 2012, , .		3
67	Compliance-Based Latchable Microfluidic Actuators Using a Paraffin Wax. , 0, , .		2
68	An elastomeric polymer microchip for mechanically tunable cell trapping. , 2013, , .		2
69	Modeling of a viscometric MEMS affinity glucose sensor. , 2017, , .		2
70	An Integrated Preprocessing Approach for Exploring Single-Cell Gene Expression in Rare Cells. Scientific Reports, 2019, 9, 19758.	3.3	2
71	Surface acoustic wave-assisted microfluidic isolation of aptamers. Microfluidics and Nanofluidics, 2022, 26, .	2.2	2
72	A MEMS Nanocalorimeter for Biomolecular Characterization. , 2006, , .		1

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73	A Microfluidic Affinity Cocaine Sensor. , 2009, , .		1
74	Simulation of a planar PDMS micropump using in-contact, low-leakage check valves. , 2010, , .		1
75	Specific cell capture and temperature-mediated release using surface-immobilized aptamers in a microfluidic device. , 2011, , .		1
76	A polymer-based MEMS differential scanning calorimeter. , 2014, , .		1
77	Cytokine Storm Biomarkers: A Flexible and Regenerative Aptameric Grapheneâ€Nafion Biosensor for Cytokine Storm Biomarker Monitoring in Undiluted Biofluids toward Wearable Applications (Adv. Tj ETQq1 1 0.7843.14 rgBTi/Overlo		0
78	Thermally Adjustable Microlenses for Biological Imaging. , 2007, , .		0
79	A microfluidic device for pulsatile transdermal delivery for neurobiological drugs. , 2010, , .		0
80	A permittivity-based MEMS affinity glucose sensor with integrated temperature measurements. , 2010, , .		0
81	A planar PDMS micropump based on in-contact low-leakage check valves. , 2010, , .		0
82	A MEMS-based approach to detection of single nucleotide polymorphisms for genetic disorder diagnosis. , 2012, , .		0
83	Integrating aptamers and microfluidics for biological manipulation and sensing. , 2013, , .		0
84	Physical modulation based cell manipulation in microfluidic devices. , 2013, , .		0
85	Microfluidic selection of aptamers using combined electrokinetic and hydrodynamic manipulation. , 2015, , .		0
86	Real-time monitoring of insulin using a graphene aptameric nanosensor. , 2017, , .		0
87	Characterization of biomolecules using an aptamer-based graphene nanosensor. , 2017, , .		0
88	Tunable mid-infrared biosensors based on graphene metasurfaces. , 2017, , .		0
89	Differential method for undisturbed detection of 17Î²-estradiol using an integrated aptameric graphene nanosensor. , 2018, , .		0
90	A Mechanically Flexible Aptamer-Based Graphene Nanosensor for Biomarker Monitoring. , 2019, , .		0

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91	Microfluidic Isolation of Aptamers for Glycan Targets. , 2019, , .		0
92	Formation and Stimuli-Directed Migration of Slugs in Microchips. Journal of Medical and Biological Engineering, 2013, 33, 263-268.	1.8	0