

# Xinxin Li

## List of Publications by Year in descending order

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96  
papers

2,461  
citations

186265

28  
h-index

223800

46  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pt Nanoparticles Sensitized Ordered Mesoporous WO <sub>3</sub> Semiconductor: Gas Sensing Performance and Mechanism Study. <i>Advanced Functional Materials</i> , 2018, 28, 1705268.	14.9	231
2	Functionalized Mesoporous Silica for Microgravimetric Sensing of Trace Chemical Vapors. <i>Analytical Chemistry</i> , 2011, 83, 3448-3454.	6.5	111
3	Three Dimensional PtRh Alloy Porous Nanostructures: Tuning the Atomic Composition and Controlling the Morphology for the Application of Direct Methanol Fuel Cells. <i>Advanced Functional Materials</i> , 2012, 22, 3570-3575.	14.9	103
4	Polydopamine nanotubes: bio-inspired synthesis, formaldehyde sensing properties and thermodynamic investigation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3487-3493.	10.3	99
5	ZnO-nanowire size effect induced ultra-high sensing response to ppb-level H <sub>2</sub> S. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 264-272.	7.8	93
6	Amphiphilic Block Copolymer Templated Synthesis of Mesoporous Indium Oxides with Nanosheet-Assembled Pore Walls. <i>Chemistry of Materials</i> , 2016, 28, 7997-8005.	6.7	74
7	Electromechanical Sigma-Modulators ( $\Delta$ ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 512 Feedback Interfaces for Capacitive MEMS Inertial Sensors: A Review. <i>IEEE Sensors Journal</i> , 2016, 16, 6476-6495.	4.7	73
8	Resonant-cantilever bio/chemical sensors with an integrated heater for both resonance exciting optimization and sensing repeatability enhancement. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 045023.	2.6	70
9	Metal organic framework of MOF-5 with hierarchical nanopores as micro-gravimetric sensing material for aniline detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 639-647.	7.8	67
10	Microgravimetric Thermodynamic Modeling for Optimization of Chemical Sensing Nanomaterials. <i>Analytical Chemistry</i> , 2014, 86, 4178-4187.	6.5	66
11	An integrated micro-chip with Ru/Al <sub>2</sub> O <sub>3</sub> /ZnO as sensing material for SO <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 26-34.	7.8	64
12	The catalytic-induced sensing effect of triangular CeO <sub>2</sub> nanoflakes for enhanced BTEX vapor detection with conventional ZnO gas sensors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11188-11194.	10.3	63
13	Metal-Organic Frameworks for Resonant-Gravimetric Detection of Trace-Level Xylene Molecules. <i>Analytical Chemistry</i> , 2016, 88, 12234-12240.	6.5	59
14	High-performance H <sub>2</sub> sensors with selectively hydrophobic micro-plate for self-aligned upload of Pd nanodots modified mesoporous In <sub>2</sub> O <sub>3</sub> sensing-material. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 83-92.	7.8	55
15	<i>In situ</i> construction of metal-organic framework (MOF) UiO-66 film on Parylene-patterned resonant microcantilever for trace organophosphorus molecules detection. <i>Analyst</i> , 2019, 144, 3729-3735.	3.5	50
16	Schadenfreude: A Counternormative Observer Response to Workplace Mistreatment. <i>Academy of Management Review</i> , 2019, 44, 360-376.	11.7	50
17	Monolithic Integration of Pressure Plus Acceleration Composite TPMS Sensors With a Single-Sided Micromachining Technology. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 284-293.	2.5	49
18	Integrated microcantilevers for high-resolution sensing and probing. <i>Measurement Science and Technology</i> , 2012, 23, 022001.	2.6	48

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19	Pentagram-Shaped Ag@Pt Core-Shell Nanostructures as High-Performance Catalysts for Formaldehyde Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8091-8097.	8.0	47
20	Detection of Phenylketonuria Markers Using a ZIF-67 Encapsulated PtPd Alloy Nanoparticle (PtPd@ZIF-67)-Based Disposable Electrochemical Microsensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20734-20742.	8.0	43
21	Ni-MOF-74 as sensing material for resonant-gravimetric detection of ppb-level CO. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 562-569.	7.8	42
22	Mesoporous Silica Nanoparticles (MSNs) for Detoxification of Hazardous Organophorous Chemicals. <i>Small</i> , 2014, 10, 2404-2412.	10.0	41
23	In situ growth of noble metal nanoparticles on graphene oxide sheets and direct construction of functionalized porous-layered structure on gravimetric microsensors for chemical detection. <i>Chemical Communications</i> , 2012, 48, 10784.	4.1	40
24	Single-Side Fabricated Pressure Sensors for IC-Foundry-Compatible, High-Yield, and Low-Cost Volume Production. <i>IEEE Electron Device Letters</i> , 2011, 32, 979-981.	3.9	38
25	An inconvenient truth? Interpersonal and career consequences of "maybe baby" expectations. <i>Journal of Vocational Behavior</i> , 2018, 104, 44-58.	3.4	38
26	A High-Performance Dual-Cantilever High-Shock Accelerometer Single-Sided Micromachined in (111) Silicon Wafers. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1515-1520.	2.5	36
27	Hyper-branched sensing polymer directly constructed on a resonant micro-cantilever for the detection of trace chemical vapor. <i>Journal of Materials Chemistry</i> , 2012, 22, 18004.	6.7	32
28	Package-friendly piezoresistive pressure sensors with on-chip integrated packaging-stress-suppressed suspension (PS <sup>3</sup> ) technology. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 045027.	2.6	32
29	Sources and compositional distribution of organic carbon in surface sediments from the lower Pearl River to the coastal South China Sea. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2104-2117.	3.0	28
30	A Front-Side Microfabricated Tiny-Size Thermopile Infrared Detector With High Sensitivity and Fast Response. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 2230-2237.	3.0	28
31	Quantitative Structure-Activity Relationship of Nanowire Adsorption to SO <sub>2</sub> Revealed by <i>In Situ</i> TEM Technique. <i>Nano Letters</i> , 2021, 21, 1679-1687.	9.1	26
32	High-Performance Low-Range Differential Pressure Sensors Formed With a Thin-Film Under Bulk Micromachining Technology. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 879-885.	2.5	23
33	<i>In Situ</i> TEM Technique Revealing the Deactivation Mechanism of Bimetallic Pd-Ag Nanoparticles in Hydrogen Sensors. <i>Nano Letters</i> , 2022, 22, 3157-3164.	9.1	22
34	Design of a Dual Quantization Electromechanical Sigma-Delta Modulator MEMS Vibratory Wheel Gyroscope. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 218-230.	2.5	21
35	Regioselective Patterning of Multiple SAMs and Applications in Surface-Guided Smart Microfluidics. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 21961-21969.	8.0	20
36	Resonant-Gravimetric Identification of Competitive Adsorption of Environmental Molecules. <i>Analytical Chemistry</i> , 2017, 89, 7031-7037.	6.5	20

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37	An in-situ TEM microreactor for real-time nanomorphology & physicochemical parameters interrelated characterization. <i>Nano Today</i> , 2020, 35, 100932.	11.9	20
38	Integrated Resonant Micro/Nano Gravimetric Sensors for Bio/Chemical Detection in Air and Liquid. <i>Micromachines</i> , 2021, 12, 645.	2.9	20
39	Generic Approach to Boost the Sensitivity of Metal Oxide Sensors by Decoupling the Surface Charge Exchange and Resistance Reading Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37295-37304.	8.0	19
40	Work-related helping and family functioning: A work-home resources perspective. <i>Journal of Occupational and Organizational Psychology</i> , 2021, 94, 55-79.	4.5	19
41	A Single-Side Fabricated Triaxis (111)-Silicon Microaccelerometer With Electromechanical $\Delta$ Modulation. <i>IEEE Sensors Journal</i> , 2018, 18, 1859-1869.	4.7	16
42	Distribution, Source, and Burial of Sedimentary Organic Carbon in Kermadec and Atacama Trenches. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006189.	3.0	16
43	Three-Dimensional Arterial Pulse Signal Acquisition in Time Domain Using Flexible Pressure-Sensor Dense Arrays. <i>Micromachines</i> , 2021, 12, 569.	2.9	16
44	Thermogravimetric Analysis on a Resonant Microcantilever. <i>Analytical Chemistry</i> , 2022, 94, 9380-9388.	6.5	16
45	Length-extensional resonating gas sensors with IC-foundry compatible low-cost fabrication in non-SOI single-wafer. <i>Microelectronic Engineering</i> , 2015, 136, 1-7.	2.4	15
46	A resonant cantilever based particle sensor with particle-size selection function. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 085019.	2.6	15
47	Happy But Uncivil? Examining When and Why Positive Affect Leads to Incivility. <i>Journal of Business Ethics</i> , 2020, 165, 595-614.	6.0	14
48	Ultra-small pressure sensors fabricated using a scar-free microhole inter-etch and sealing (MIS) process. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 065012.	2.6	14
49	The hadal zone is an important and heterogeneous sink of black carbon in the ocean. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	14
50	Nanofabrication based on MEMS technology. <i>IEEE Sensors Journal</i> , 2006, 6, 686-690.	4.7	13
51	Fully front-side bulk-micromachined single-chip micro flow sensors for bare-chip SMT (surface) Tj ETQq1 1 0.784314 rgBT /Overl	2.6	13
52	Through-Glass-Via Based Microstrip Band-Pass Filters Fabricated with Wafer-Level Low-Melting-Point Alloy Micro-Casting. <i>IEEE Electron Device Letters</i> , 2020, , 1-1.	3.9	12
53	Area-Selective, In-Situ Growth of Pd-Modified ZnO Nanowires on MEMS Hydrogen Sensors. <i>Nanomaterials</i> , 2022, 12, 1001.	4.1	12
54	A Tri-Beam Dog-Bone Resonant Sensor With High- in Liquid for Disposable Test-Strip Detection of Analyte Droplet. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 244-251.	2.5	11

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55	1/4-â€Diving suitâ€™™ for liquid-phase high-Q resonant detection. Lab on A Chip, 2016, 16, 902-910.	6.0	11
56	Single-Side Fabrication of Multilevel 3-D Microstructures for Monolithic Dual Sensors. Journal of Microelectromechanical Systems, 2015, 24, 531-533.	2.5	10
57	Microgravimetric Analysis Method for Activation-Energy Extraction from Trace-Amount Molecule Adsorption. Analytical Chemistry, 2016, 88, 4903-4908.	6.5	10
58	Single-Side Fabricated p<sup>+</sup>Si/Al Thermopile-Based Gas Flow Sensor for IC-Foundry-Compatible, High-Yield, and Low-Cost Volume Manufacturing. IEEE Transactions on Electron Devices, 2019, 66, 821-824.	3.0	10
59	A chelating-bond breaking and re-linking technique for rapid re-immobilization of immune micro-sensors. Biomedical Microdevices, 2012, 14, 303-311.	2.8	9
60	Synergistic improvement of gas sensing performance by micro-gravimetrically extracted kinetic/thermodynamic parameters. Analytica Chimica Acta, 2015, 863, 49-58.	5.4	9
61	Schiff-base reaction induced selective sensing of trace dopamine based on a Pt41Rh59 alloy/ZIF-90 nanocomposite. Nanotechnology, 2019, 30, 335708.	2.6	9
62	A dual quantization electromechanical sigma-delta modulator vibratory wheel gyroscope. , 2016, , .		8
63	Highly Sensitive p<sup>+</sup>Si/Al Thermopile-Based Gas Flow Sensors by Using Front-Sided Bulk Micromachining Technology. IEEE Transactions on Electron Devices, 2020, 67, 1781-1786.	3.0	8
64	Nano beta zeolites catalytic-cracking effect on hydrochlorofluorocarbon molecule for specific detection of Freon. Journal of Materials Chemistry A, 2021, 9, 15321-15328.	10.3	8
65	In-Plane Mode Encased Cantilevers for Cancer Cell Detection in Liquid. , 2021, , .		7
66	Self-locked dual-resonator micromachined Lorentz force magnetometer based on electromechanical sigma-delta modulation. , 2018, , .		6
67	Dual-Resonator MEMS Magnetometer Based on Self-Clocking Sigma-Delta Modulation. IEEE Sensors Journal, 2020, 20, 1527-1535.	4.7	6
68	Human Impacts Overwhelmed Hydroclimate Control of Soil Erosion in China 5,000ÂYears Ago. Geophysical Research Letters, 2022, 49, .	4.0	6
69	Microreactor-Based TGâ€™TEM Synchronous Analysis. Analytical Chemistry, 2022, 94, 9009-9017.	6.5	6
70	Sub- <i>g</i> weak-vibration-triggered high-efficiency energy harvesting for event identification. Journal of Micromechanics and Microengineering, 2018, 28, 075018.	2.6	5
71	Predictors of parental leave support: Bad news for (big) dads and a policy for equality. Group Processes and Intergroup Relations, 2018, 21, 810-830.	3.9	5
72	Intelligent Modeling and Design of a Novel Temperature Control System for a Cantilever-Based Gas-Sensitive Material Analyzer. IEEE Access, 2021, 9, 21132-21148.	4.2	5

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73	Organic carbon remineralization rate in global marine sediments: A review. <i>Regional Studies in Marine Science</i> , 2022, 49, 102112.	0.7	5
74	Thermodynamic Phase-like Transition Effect of Molecular Self-assembly. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 126-131.	4.6	4
75	Anatase porous titania nanosheets for resonant-gravimetric detection of ppb-level NO <sub>2</sub> at room-temperature. <i>Analyst, The</i> , 2021, 146, 4042-4048.	3.5	4
76	An Anti-Aliasing and Self-Clocking $\hat{\mu}$ M Cobweb-Like Disk Resonant MEMS Gyroscope with Extended Input Range. , 2021, , .		4
77	High-Aspect-Ratio TSV Process With Thermomigration Refilling of Au-Si Eutectic Alloy. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021, 11, 191-199.	2.5	4
78	Chip-Based MEMS Platform for Thermogravimetric/Differential Thermal Analysis (TG/DTA) Joint Characterization of Materials. <i>Micromachines</i> , 2022, 13, 445.	2.9	4
79	Modeling and realization for appearance visualization of Textronic laces. <i>Textile Reseach Journal</i> , 2019, 89, 4526-4536.	2.2	3
80	Enhancing the closed-loop stability of a high-Q polysilicon micro-hemispherical resonating gyroscope. <i>AIP Advances</i> , 2019, 9, .	1.3	3
81	A Front-Side Microfabricated Thermoresistive Gas Flow Sensor for High-Performance, Low-Cost and High-Yield Volume Production. <i>Micromachines</i> , 2020, 11, 205.	2.9	3
82	Resonant-Cantilever-Detected Kinetic/Thermodynamic Parameters for Aptamer-Ligand Binding on a Liquid-Solid Interface. <i>Analytical Chemistry</i> , 2020, 92, 11127-11134.	6.5	2
83	A discrete-time self-clocking complex electromechanical $\hat{\mu}$ M gyroscope with quadrature error cancellation. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112470.	4.1	2
84	Silicon-chip based electromagnetic vibration energy harvesters fabricated using wafer-level micro-casting technique. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 035009.	2.6	2
85	Silicon monolithic microflow sensors: a review. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 104002.	2.6	2
86	Why and when job insecurity breeds abusive supervision. <i>Proceedings - Academy of Management</i> , 2018, 2018, 13198.	0.1	1
87	CMOS Compatible TSV Process with Post-CMOS Thermomigration Refilling of Au-Si Eutectic Alloy. , 2020, , .		1
88	A spacer fabric-based three-dimensional patterning method with two-colored jacquard systems. <i>Textile Reseach Journal</i> , 2021, 91, 1399-1408.	2.2	1
89	100- $\hat{\mu}$ m-Scale High-Detectivity Infrared Detector With Thermopile/Absorber Double-Deck Structure Formed in (111) Silicon. <i>IEEE Transactions on Electron Devices</i> , 2021, , 1-7.	3.0	1
90	Ni <sub>2</sub> (dobdc) MOF (metal-organic framework) nanocrystals for ultra-sensitive detection of ppb-level co with resonant-cantilever. , 2017, , .		0

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91	Ultra-Small Pixel IR Sensing Array Fabricated with a Post-CMOS Compatible Process. , 2021, , .		0
92	Porous Titania Nanosheets as Micro-Gravimetric Sensing Material for Trace NO <sub>2</sub> Detection. , 2021, , .		0
93	Formaldehyde Sensor with Pentagram-Shaped Core-Shell Nanostructure as Catalyst. , 2021, , .		0
94	Computerized patterning method of Cliptronic jacquard structures. Textile Reseach Journal, 2021, 91, 3012-3022.	2.2	0
95	Single-side micromachined ultra-small thermopile IR detecting pixels for dense-array integration. Journal of Micromechanics and Microengineering, 0, , .	2.6	0
96	CO <sub>2</sub> sensing properties and mechanism of ZnMn <sub>2</sub> O <sub>4</sub> nanotubes under air and inert conditions. Journal of Materials Chemistry C, 0, , .	5.5	0