

# Shunbo Li

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,370  
citations

279701

23  
h-index

360920

35  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1698  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of electronic skin: soft electronics and sensors for human health. <i>Journal of Materials Chemistry B</i> , 2020, 8, 852-862.	2.9	125
2	Gradient Architecture-Enabled Capacitive Tactile Sensor with High Sensitivity and Ultrabroad Linearity Range. <i>Small</i> , 2021, 17, e2103312.	5.2	73
3	Facile Formation of Hierarchical Textures for Flexible, Translucent, and Durable Superhydrophobic Film. <i>Advanced Functional Materials</i> , 2021, 31, 2008574.	7.8	68
4	A superhydrophobic and anti-corrosion strain sensor for robust underwater applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15282-15293.	5.2	63
5	Wax-bonding 3D microfluidic chips. <i>Lab on A Chip</i> , 2010, 10, 2622.	3.1	60
6	Tannic acid-modified silver nanoparticles for enhancing anti-biofilm activities and modulating biofilm formation. <i>Biomaterials Science</i> , 2020, 8, 4852-4860.	2.6	56
7	Tilted magnetic micropillars enabled dual-mode sensor for tactile/touchless perceptions. <i>Nano Energy</i> , 2020, 78, 105382.	8.2	49
8	A simple and cost-effective method for fabrication of integrated electronic-microfluidic devices using a laser-patterned PDMS layer. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 751-760.	1.0	47
9	A novel method to construct 3D electrodes at the sidewall of microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 499-508.	1.0	47
10	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11885-11890.	7.2	46
11	Rapid, one-step preparation of SERS substrate in microfluidic channel for detection of molecules and heavy metal ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117113.	2.0	44
12	Improved concentration and separation of particles in a 3D dielectrophoretic chip integrating focusing, aligning and trapping. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 527-539.	1.0	41
13	The Crystal Hotel: A Microfluidic Approach to Biomimetic Crystallization. <i>Advanced Materials</i> , 2015, 27, 7395-7400.	11.1	40
14	Fano effect of metamaterial resonance in terahertz extraordinary transmission. <i>Applied Physics Letters</i> , 2011, 98, 011911.	1.5	38
15	Magnetically Responsive Film Decorated with Microcilia for Robust and Controllable Manipulation of Droplets. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1754-1765.	4.0	38
16	Applications of Micro/Nanoparticles in Microfluidic Sensors: A Review. <i>Sensors</i> , 2014, 14, 6952-6964.	2.1	36
17	Design and preparation of centrifugal microfluidic chip integrated with SERS detection for rapid diagnostics. <i>Talanta</i> , 2019, 194, 903-909.	2.9	36
18	High-throughput particle manipulation by hydrodynamic, electrokinetic, and dielectrophoretic effects in an integrated microfluidic chip. <i>Biomicrofluidics</i> , 2013, 7, 024106.	1.2	34

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19	Rapid identification of alpha-fetoprotein in serum by a microfluidic SERS chip integrated with Ag/Au Nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128196.	4.0	33
20	Passive Picoinjection Enables Controlled Crystallization in a Droplet Microfluidic Device. <i>Small</i> , 2017, 13, 1702154.	5.2	29
21	Detection of prostate specific antigen in whole blood by microfluidic chip integrated with dielectrophoretic separation and electrochemical sensing. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114057.	5.3	28
22	Self-assembled nano-Ag/Au@Au film composite SERS substrates show high uniformity and high enhancement factor for creatinine detection. <i>Nanotechnology</i> , 2021, 32, 395502.	1.3	26
23	Rapid preparation of highly reliable PDMS double emulsion microfluidic devices. <i>RSC Advances</i> , 2016, 6, 25927-25933.	1.7	24
24	Synchrotron FTIR mapping of mineralization in a microfluidic device. <i>Lab on A Chip</i> , 2017, 17, 1616-1624.	3.1	24
25	In Situ Detection of Endotoxin in Bacteriostatic Process by SERS Chip Integrated Array Microchambers within Bioscaffold Nanostructures and SERS Tags. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28985-28992.	4.0	22
26	Ag@CeO <sub>2</sub> Composite Aerogels as Photocatalysts for CO <sub>2</sub> Reduction. <i>ACS Applied Energy Materials</i> , 2022, 5, 7335-7345.	2.5	20
27	In situ assembly of a wearable capacitive sensor with a spine-shaped dielectric for shear-pressure monitoring. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15634-15645.	2.7	19
28	A facile and novel design of multifunctional electronic skin based on polydimethylsiloxane with micropillars for signal monitoring. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8315-8322.	2.9	17
29	Highly Stretchable Starch Hydrogel Wearable Patch for Electrooculographic Signal Detection and Human-Machine Interaction. <i>Small Structures</i> , 2021, 2, 2100105.	6.9	16
30	Printer-assisted array flexible surface-enhanced Raman spectroscopy chip preparation for rapid and label-free detection of bacteria. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 932-940.	1.2	15
31	In-situ and continuous monitoring of pyocyanin in the formation process of <i>Pseudomonas aeruginosa</i> biofilms by an electrochemical biosensor chip. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128945.	4.0	15
32	On-chip DNA preconcentration in different media conductivities by electrodeless dielectrophoresis. <i>Biomicrofluidics</i> , 2015, 9, 054115.	1.2	14
33	A microfluidic-based SERS biosensor with multifunctional nanosurface immobilized nanoparticles for sensitive detection of MicroRNA. <i>Analytica Chimica Acta</i> , 2022, 1221, 340139.	2.6	14
34	Capillary flow control in nanochannels via hybrid surface. <i>RSC Advances</i> , 2016, 6, 2774-2777.	1.7	13
35	A highly efficient preconcentration route for rapid and sensitive detection of endotoxin based on an electrochemical biosensor. <i>Analyst</i> , 2020, 145, 4204-4211.	1.7	13
36	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. <i>Angewandte Chemie</i> , 2017, 129, 12047-12052.	1.6	12

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37	Dynamic enrichment of plasmonic hot-spots and analytes on superhydrophobic and magnetically functionalized platform for surface-enhanced Raman scattering. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128297.	4.0	11
38	Detection of VEGF <sub>165</sub> in Whole Blood by Differential Pulse Voltammetry Based on a Centrifugal Microfluidic Chip. <i>ACS Sensors</i> , 2022, 7, 1019-1026.	4.0	11
39	Screening the Ion Compositions on Crystal Morphology Transitions by a Microfluidic Chip with a Well-Defined Concentration Gradient. <i>Crystal Growth and Design</i> , 2020, 20, 6877-6887.	1.4	10
40	Simple and reusable picoinjector for liquid delivery via nanofluidics approach. <i>Nanoscale Research Letters</i> , 2014, 9, 147.	3.1	9
41	Investigating the Nucleation Kinetics of Calcium Carbonate Using a Zero-Water-Loss Microfluidic Chip. <i>Crystal Growth and Design</i> , 2020, 20, 2787-2795.	1.4	9
42	A Facile and Flexible Humidity Sensor Based on Porous PDMS/AgNWs and GO for Environmental Humidity and Respiratory Detection. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	9
43	A universal bonding method for preparation of microfluidic biosensor. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	1.0	7
44	Bacterial identification and adhesive strength evaluation based on a mannose biosensor with dual-mode detection. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114044.	5.3	6
45	Evaluation of microflow configurations for scale inhibition and serial X-ray diffraction analysis of crystallization processes. <i>Lab on A Chip</i> , 2020, 20, 2954-2964.	3.1	3
46	Dielectrophoretic manipulation and separation of particles in an S-shaped microchannel with hurdles. , 2013, , .		0
47	Nanofluidic behavior at the interface of sectionalized hydrophobic/hydrophilic patterns in nanochannel. <i>Integrated Ferroelectrics</i> , 2018, 188, 57-63.	0.3	0