Shunbo Li

List of Publications by Year
in descending order

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 Facile and Flexible Humidity Sensor Based on Porous PDMS/AgNWs and GO for Environmental Humidity and Respiratory Detection. Macromolecular Materials and Engineering, 2022, 307, .	1.7	9
2	Bacterial identification and adhesive strength evaluation based on a mannose biosensor with dual-mode detection. Biosensors and Bioelectronics, 2022, 203, 114044.	5.3	6
3	Detection of prostate specific antigen in whole blood by microfluidic chip integrated with dielectrophoretic separation and electrochemical sensing. Biosensors and Bioelectronics, 2022, 204, 114057.	5.3	28
4	Detection of VEGF₁₆₅ in Whole Blood by Differential Pulse Voltammetry Based on a Centrifugal Microfluidic Chip. ACS Sensors, 2022, 7, 1019-1026.	4.0	11
5	Agâ€“CeO₂ Composite Aerogels as Photocatalysts for CO₂ Reduction. ACS Applied Energy Materials, 2022, 5, 7335-7345.	2.5	20
6	A microfluidic-based SERS biosensor with multifunctional nanosurface immobilized nanoparticles for sensitive detection of MicroRNA. Analytica Chimica Acta, 2022, 1221, 340139.	2.6	14
7	In-situ and continuous monitoring of pyocyanin in the formation process of Pseudomonas aeruginosa biofilms by an electrochemical biosensor chip. Sensors and Actuators B: Chemical, 2021, 327, 128945.	4.0	15
8	Facile Formation of Hierarchical Textures for Flexible, Translucent, and Durable Superhydrophobic Film. Advanced Functional Materials, 2021, 31, 2008574.	7.8	68
9	A superhydrophobic and anti-corrosion strain sensor for robust underwater applications. Journal of Materials Chemistry A, 2021, 9, 15282-15293.	5.2	63
10	Magnetically Responsive Film Decorated with Microcilia for Robust and Controllable Manipulation of Droplets. ACS Applied Materials & Interfaces, 2021, 13, 1754-1765.	4.0	38
11	A universal bonding method for preparation of microfluidic biosensor. Microfluidics and Nanofluidics, 2021, 25, 1.	1.0	7
12	Self-assembled nano-Ag/Au@Au film composite SERS substrates show high uniformity and high enhancement factor for creatinine detection. Nanotechnology, 2021, 32, 395502.	1.3	26
13	Gradient Architectureâ€Enabled Capacitive Tactile Sensor with High Sensitivity and Ultrabroad Linearity Range. Small, 2021, 17, e2103312.	5.2	73
14	Highly Stretchable Starch Hydrogel Wearable Patch for Electrooculographic Signal Detection and Humanâ€“Machine Interaction. Small Structures, 2021, 2, 2100105.	6.9	16
15	A review of electronic skin: soft electronics and sensors for human health. Journal of Materials Chemistry B, 2020, 8, 852-862.	2.9	125
16	Evaluation of microflow configurations for scale inhibition and serial X-ray diffraction analysis of crystallization processes. Lab on A Chip, 2020, 20, 2954-2964.	3.1	3
17	Tannic acid-modified silver nanoparticles for enhancing anti-biofilm activities and modulating biofilm formation. Biomaterials Science, 2020, 8, 4852-4860.	2.6	56
18	A facile and novel design of multifunctional electronic skin based on polydimethylsiloxane with micropillars for signal monitoring. Journal of Materials Chemistry B, 2020, 8, 8315-8322.	2.9	17

#	Article	IF	Citations
19	Tilted magnetic micropillars enabled dual-mode sensor for tactile/touchless perceptions. Nano Energy, 2020, 78, 105382.	8.2	49
20	<i>In situ</i> assembly of a wearable capacitive sensor with a spine-shaped dielectric for shear-pressure monitoring. Journal of Materials Chemistry C, 2020, 8, 15634-15645.	2.7	19
21	Screening the Ion Compositions on Crystal Morphology Transitions by a Microfluidic Chip with a Well-Defined Concentration Gradient. Crystal Growth and Design, 2020, 20, 6877-6887.	1.4	10
22	A highly efficient preconcentration route for rapid and sensitive detection of endotoxin based on an electrochemical biosensor. Analyst, The, 2020, 145, 4204-4211.	1.7	13
23	Investigating the Nucleation Kinetics of Calcium Carbonate Using a Zero-Water-Loss Microfluidic Chip. Crystal Growth and Design, 2020, 20, 2787-2795.	1.4	9
24	Printerâ€assisted array flexible surfaceâ€enhanced Raman spectroscopy chip preparation for rapid and labelâ€free detection of bacteria. Journal of Raman Spectroscopy, 2020, 51, 932-940.	1.2	15
25	Rapid identification of alpha-fetoprotein in serum by a microfluidic SERS chip integrated with Ag/Au Nanocomposites. Sensors and Actuators B: Chemical, 2020, 317, 128196.	4.0	33
26	Dynamic enrichment of plasmonic hot-spots and analytes on superhydrophobic and magnetically functionalized platform for surface-enhanced Raman scattering. Sensors and Actuators B: Chemical, 2020, 319, 128297.	4.0	11
27	In Situ Detection of Endotoxin in Bacteriostatic Process by SERS Chip Integrated Array Microchambers within Bioscaffold Nanostructures and SERS Tags. ACS Applied Materials & Interfaces, 2020, 12, 28985-28992.	4.0	22
28	Rapid, one-step preparation of SERS substrate in microfluidic channel for detection of molecules and heavy metal ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117113.	2.0	44
29	Design and preparation of centrifugal microfluidic chip integrated with SERS detection for rapid diagnostics. Talanta, 2019, 194, 903-909.	2.9	36
30	Nanofluidic behavior at the interface of sectionalized hydrophobic/hydrophilic patterns in nanochannel. Integrated Ferroelectrics, 2018, 188, 57-63.	0.3	0
31	Synchrotron FTIR mapping of mineralization in a microfluidic device. Lab on A Chip, 2017, 17, 1616-1624.	3.1	24
32	Passive Picoinjection Enables Controlled Crystallization in a Droplet Microfluidic Device. Small, 2017, 13, 1702154.	5.2	29
33	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. Angewandte Chemie - International Edition, 2017, 56, 11885-11890.	7.2	46
34	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. Angewandte Chemie, 2017, 129, 12047-12052.	1.6	12
35	Rapid preparation of highly reliable PDMS double emulsion microfluidic devices. RSC Advances, 2016, 6, 25927-25933.	1.7	24
36	Capillary flow control in nanochannels via hybrid surface. RSC Advances, 2016, 6, 2774-2777.	1.7	13

#	Article	IF	Citations
37	On-chip DNA preconcentration in different media conductivities by electrodeless dielectrophoresis. Biomicrofluidics, 2015, 9, 054115.	1.2	14
38	The Crystal Hotel: A Microfluidic Approach to Biomimetic Crystallization. Advanced Materials, 2015, 27, 7395-7400.	11.1	40
39	Applications of Micro/Nanoparticles in Microfluidic Sensors: A Review. Sensors, 2014, 14, 6952-6964.	2.1	36
40	Simple and reusable picoinjector for liquid delivery via nanofluidics approach. Nanoscale Research Letters, 2014, 9, 147.	3.1	9
41	High-throughput particle manipulation by hydrodynamic, electrokinetic, and dielectrophoretic effects in an integrated microfluidic chip. Biomicrofluidics, 2013, 7, 024106.	1.2	34
42	Improved concentration and separation of particles in a 3D dielectrophoretic chip integrating focusing, aligning and trapping. Microfluidics and Nanofluidics, 2013, 14, 527-539.	1.0	41
43	A novel method to construct 3D electrodes at the sidewall of microfluidic channel. Microfluidics and Nanofluidics, 2013, 14, 499-508.	1.0	47
44	Dielectrophoretic manipulation and separation of particles in an S-shaped microchannel with hurdles. , 2013, , .		0
45	A simple and cost-effective method for fabrication of integrated electronic-microfluidic devices using a laser-patterned PDMS layer. Microfluidics and Nanofluidics, 2012, 12, 751-760.	1.0	47
46	Fano effect of metamaterial resonance in terahertz extraordinary transmission. Applied Physics Letters, 2011, 98, 011911.	1.5	38
47	Wax-bonding 3D microfluidic chips. Lab on A Chip, 2010, 10, 2622.	3.1	60