

Junhui Hu

List of Publications by Year in descending order

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41
papers

579
citations

623734

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22
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43
all docs

43
docs citations

43
times ranked

323
citing authors

#	ARTICLE	IF	CITATIONS
1	Diversity of acoustic streaming in a rectangular acoustofluidic field. <i>Ultrasonics</i> , 2015, 58, 27-34.	3.9	53
2	A π -shaped ultrasonic tweezers concept for manipulation of small particles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1499-1507.	3.0	37
3	Optimum Operation Conditions of an Ultrasonic Motor Driving Fluid Directly. <i>Japanese Journal of Applied Physics</i> , 1996, 35, 3289-3294.	1.5	36
4	Acoustofluidic multi-well plates for enrichment of micro/nano particles and cells. <i>Lab on A Chip</i> , 2020, 20, 3399-3409.	6.0	33
5	Trapping of particles by the leakage of a standing wave ultrasonic field. <i>Journal of Applied Physics</i> , 2009, 106, 034903.	2.5	32
6	Mobile acoustic streaming based trapping and 3-dimensional transfer of a single nanowire. <i>Applied Physics Letters</i> , 2012, 101, 093113.	3.3	29
7	Ultrasound assisted low-concentration VOC sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 1234-1241.	7.8	24
8	Eckart acoustic streaming in a heptagonal chamber by multiple acoustic transducers. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	21
9	Gas Identification by a Single Metal-Oxide-Semiconductor Sensor Assisted by Ultrasound. <i>ACS Sensors</i> , 2019, 4, 2491-2496.	7.8	21
10	Ultrasonic collection of small particles by a tapered metal strip. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 571-578.	3.0	17
11	Extraction of biologic particles by pumping effect in a Υ -shaped ultrasonic actuator. <i>Ultrasonics</i> , 2006, 45, 15-21.	3.9	17
12	Analyses of acoustic streaming field in the probe-liquid-substrate system for nanotrapping. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1395-1408.	2.2	17
13	Acoustofluidic black holes for multifunctional in-droplet particle manipulation. <i>Science Advances</i> , 2022, 8, eabm2592.	10.3	17
14	Vibration energy harvesting based on integrated piezoelectric components operating in different modes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 386-394.	3.0	14
15	Physical principle of enhancing the sensitivity of a metal oxide gas sensor using bulk acoustic waves. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	14
16	Controlled concentration and transportation of nanoparticles at the interface between a plain substrate and droplet. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 381-392.	7.8	14
17	Nano concentration by acoustically generated complex spiral vortex field. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	13
18	Analyses of acoustofluidic field in ultrasonic needle-liquid-substrate system for micro-/nanoscale material concentration. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	13

#	ARTICLE	IF	CITATIONS
19	A novel strategy to identify gases by a single catalytic combustible sensor working in its linear range. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128514.	7.8	13
20	Dependence of acoustic trapping capability on the orientation and shape of particles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 1443-1450.	3.0	12
21	Linear concentration of microscale samples under an ultrasonically vibrating needle in water on a substrate surface. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 472-477.	7.8	11
22	Capture of Individual Micrometal Wires in Air by Ultrasonic Tweezers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 3053-3059.	5.8	11
23	An ultrasonic manipulator with noncontact and contact-type nanowire trapping functions. <i>Sensors and Actuators A: Physical</i> , 2015, 232, 13-19.	4.1	10
24	Controlled removal of micro/nanoscale particles in submillimeter-diameter area on a substrate. <i>Review of Scientific Instruments</i> , 2017, 88, 105003.	1.3	9
25	High-Performance Ultrasonic Tweezers for Manipulation of Motile and Still Single Cells in a Droplet. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3018-3027.	1.5	8
26	Exploration for a BP-ANN model for gas identification and concentration measurement with an ultrasonically radiated catalytic combustion gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131733.	7.8	8
27	Modeling and analysis of the droplet-ultrasonic stage system for nano concentration. <i>Sensors and Actuators A: Physical</i> , 2015, 225, 111-118.	4.1	6
28	Focused Ultrasound Assistance to the MOS Gas Sensor System. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1009-1016.	3.0	6
29	Principle analysis for the micromanipulation probe-type ultrasonic nanomotor. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112524.	4.1	6
30	A new strategy to capture single biological micro particles at the interface between a water film and substrate by ultrasonic tweezers. <i>Ultrasonics</i> , 2020, 103, 106067.	3.9	5
31	System Design and SVM Identification Algorithm for the Ultrasonically Catalyzed Single-Sensor E-Nose. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-9.	4.7	5
32	An Ultrasonic Tweezer With Multiple Manipulation Functions Based on the Double-Parabolic-Reflector Wave-Guided High-Power Ultrasonic Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 2471-2474.	3.0	4
33	Temperature field of the piezoelectric transformer operating in longitudinal vibration mode. , 0, , .		3
34	Analysis of the ultrasonic collection of small particles by a tapered metal strip. <i>Sensors and Actuators A: Physical</i> , 2008, 141, 321-327.	4.1	3
35	A high-performance structure for the bulk acoustic wave metal oxide semiconductor gas sensor. <i>Smart Materials and Structures</i> , 2019, 28, 105015.	3.5	3
36	Effect of Ultrasonic Excitation on Discharge Performance of a Button Zinc-Air Battery. <i>Micromachines</i> , 2021, 12, 792.	2.9	2

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37	A low temperature-rise and facile manipulation method for single micro objects at the air-substrate interface. Journal of Micromechanics and Microengineering, 2019, 29, 105007.	2.6	1
38	Output voltage regulation of a k15 mode piezoelectric transformer by an external L/C component. Ultrasonics, 2009, 49, 532-537.	3.9	0
39	Periodic silicon nanocones arrays with controllable dimensions prepared by two-step etching using nanosphere lithography and NH ₄ OH/H ₂ O solution. , 2010, , .		0
40	Low temperature polycrystalline silicon film formation by metal induced crystallization with nickel salt derived by ultrasonic spray pyrolysis. Crystal Research and Technology, 2011, 46, 935-938.	1.3	0
41	A flexible ultrasonic micro tool-based AgNS fabrication process. Applied Nanoscience (Switzerland), 2018, 8, 1579-1586.	3.1	0