

# Sheng Hu

## List of Publications by Year in descending order

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23  
papers

262  
citations

1478505

6  
h-index

940533

16  
g-index

24  
all docs

24  
docs citations

24  
times ranked

418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reflective-Type Multiparameter Sensor Based on a Paired Helical Fiber Gratings and a Trapezoid-Like Microcavity. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	5
2	Dynamic analysis of microparticle behavior in quad-beam optic-fiber optical tweezers. Journal of Optics (India), 2021, 50, 656.	1.7	1
3	Low-cost high-performance temperature sensor based on unsymmetrical U-shaped microfiber. Optical Fiber Technology, 2021, 65, 102597.	2.7	4
4	Near-Field Optical Tweezers for Chemistry and Biology. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900604.	1.8	12
5	Applications of fiber-optic biochemical sensor in microfluidic chips: A review. Biosensors and Bioelectronics, 2020, 166, 112447.	10.1	116
6	Metadevices with Potential Practical Applications. Molecules, 2019, 24, 2651.	3.8	2
7	Dynamic Plasmon Resonance Tuning for Surface Enhanced Sensing. Journal of Nanoscience and Nanotechnology, 2019, 19, 3643-3646.	0.9	0
8	Optical fiber temperature sensor based on modal interference in multimode fiber lengthened by a short segment of polydimethylsiloxane. Microwave and Optical Technology Letters, 2019, 61, 1656-1660.	1.4	14
9	Expanding the flexibility of dynamics simulation on different size particle-particle interactions by dielectrophoresis. Journal of Biological Physics, 2019, 45, 45-62.	1.5	2
10	Simultaneous measurement of refractive index and temperature based on a long period fiber grating inscribed in a photonic crystal fiber with an electric-arc discharge. Instrumentation Science and Technology, 2019, 47, 185-194.	1.8	12
11	Dynamic simulation of particles in optoelectronic tweezers based on the monte carlo method. Instrumentation Science and Technology, 2017, 45, 1-11.	1.8	1
12	Determination of hexavalent chromium with a high-performance optical microring resonator. Instrumentation Science and Technology, 2017, 45, 593-604.	1.8	1
13	Numerical model of the sorting of biological cells based on gravity-driven optoelectronic tweezers. Journal of Mechanical Science and Technology, 2017, 31, 2451-2457.	1.5	0
14	Numerical model of carbon nanotubes based on lateral-field optoelectronic tweezers. Molecular Simulation, 2017, 43, 638-643.	2.0	1
15	Artificial Structural Color Pixels: A Review. Materials, 2017, 10, 944.	2.9	61
16	Theoretical investigation on nanoparticle concentrations in optoelectrofluidic chip based on diffusion, convection, and migration. International Journal of Optomechatronics, 2016, 10, 110-119.	6.6	0
17	Modeling of cellular pearl chain formation using a double photoconductive layer biochip. Journal of Electrostatics, 2015, 77, 110-115.	1.9	6
18	A NOVEL PHOTOELECTRIC CAPILLARY FOR MANIPULATION OF BIOLOGICAL PARTICLES. Instrumentation Science and Technology, 2014, 42, 618-626.	1.8	0

#	ARTICLE	IF	CITATIONS
19	Design and optimization tapered fiber with Negative Dielectrophoretic Effect for oil-in-water concentration sensor. , 2014, , .		0
20	Simulation and analysis of particle trajectory caused by the optical-induced dielectrophoresis force. Microfluidics and Nanofluidics, 2014, 16, 533-540.	2.2	15
21	Study on the assembly and separation of biological cell by optically induced dielectrophoretic technology. Microfluidics and Nanofluidics, 2014, 17, 287-294.	2.2	7
22	RESEARCH PROGRESS OF THE OPTICAL FIBER SENSORS IN PROCESS TOMOGRAPHY. Instrumentation Science and Technology, 2013, 41, 154-174.	1.8	1
23	Dynamic simulation on a dielectric micro-particle in quad-beam optic fibers with intersection arrangement. Journal of Optics (India), 0, , 1.	1.7	0