

Wenhao Huang

List of Publications by Year in descending order

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95
papers

1,691
citations

331670

21
h-index

302126

39
g-index

95
all docs

95
docs citations

95
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro lens fabrication by means of femtosecond two photon photopolymerization. Optics Express, 2006, 14, 810.	3.4	232
2	Mechanical Characterization of Human Red Blood Cells Under Different Osmotic Conditions by Robotic Manipulation With Optical Tweezers. IEEE Transactions on Biomedical Engineering, 2010, 57, 1816-1825.	4.2	146
3	Photochromic diarylethene for two-photon 3D optical storage. Materials Letters, 2006, 60, 3553-3557.	2.6	106
4	Parallel direct laser writing of micro-optical and photonic structures using spatial light modulator. Optics and Lasers in Engineering, 2015, 70, 26-32.	3.8	99
5	Mechanical force characterization in manipulating live cells with optical tweezers. Journal of Biomechanics, 2011, 44, 741-746.	2.1	98
6	Dynamics Analysis and Motion Planning for Automated Cell Transportation With Optical Tweezers. IEEE/ASME Transactions on Mechatronics, 2013, 18, 706-713.	5.8	94
7	Mechanical Modeling of Biological Cells in Microinjection. IEEE Transactions on Nanobioscience, 2008, 7, 257-266.	3.3	93
8	Numerical simulation of the geometrical factors affecting surface roughness measurements by AFM. Measurement Science and Technology, 2004, 15, 2005-2010.	2.6	72
9	Annealing effect for surface morphology and luminescence of ZnO film on silicon. Chemical Physics Letters, 2002, 364, 57-63.	2.6	63
10	High-efficiency fabrication of aspheric microlens arrays by holographic femtosecond laser-induced photopolymerization. Applied Physics Letters, 2013, 103, .	3.3	55
11	Two-photon polymerization of cylinder microstructures by femtosecond Bessel beams. Applied Physics Letters, 2014, 105, 041110.	3.3	44
12	Log-pile photonic crystal fabricated by two-photon photopolymerization. Journal of Optics, 2005, 7, 396-399.	1.5	39
13	Characterizing Mechanical Properties of Biological Cells by Microinjection. IEEE Transactions on Nanobioscience, 2010, 9, 171-180.	3.3	39
14	Morphology and composition on Al surface irradiated by femtosecond laser pulses. Applied Surface Science, 2010, 256, 4344-4349.	6.1	36
15	An improved multi-exposure approach for high quality holographic femtosecond laser patterning. Applied Physics Letters, 2014, 105, .	3.3	28
16	Sm(DBM)_3Phen - doped poly(methyl methacrylate) for three-dimensional multilayered optical memory. Optics Letters, 2005, 30, 774.	3.3	26
17	Mechanical Modeling of Red Blood Cells During Optical Stretching. Journal of Biomechanical Engineering, 2010, 132, 044504.	1.3	25
18	Preparation of Thick Pb(Zr, Ti)O ₃ (PZT) Film by Electrostatic Spray Deposition (ESD) for Application in Micro-System Technology. Japanese Journal of Applied Physics, 2002, 41, 4317-4320.	1.5	24

#	ARTICLE	IF	CITATIONS
19	Ag nanoparticle/azopolymer nanocomposites: In situ synthesis, microstructure, rewritable optically induced birefringence and optical recording. <i>Polymer</i> , 2010, 51, 1395-1403.	3.8	24
20	Two-photon-induced polarization-multiplexed and multilevel storage in photoisomeric copolymer film. <i>Optics Letters</i> , 2010, 35, 46.	3.3	22
21	Two-photon induced data storage in hydrogen bonded supramolecular azopolymers. <i>Optics Communications</i> , 2012, 285, 4941-4945.	2.1	22
22	Microstructure and electrical properties of Pb(Zr, Ti)O ₃ thick film prepared by electrostatic spray deposition. <i>Sensors and Actuators A: Physical</i> , 2003, 108, 2-6.	4.1	18
23	Polarization storage by two-photon-induced anisotropy in bisazobenzene copolymer film. <i>Optics Communications</i> , 2009, 282, 3282-3285.	2.1	18
24	Fabrication and characterization of areal roughness specimens for applications in scanning probe microscopy. <i>Measurement Science and Technology</i> , 2013, 24, 055402.	2.6	14
25	Design and analysis of two-dimensional zero-reference marks for alignment systems. <i>Review of Scientific Instruments</i> , 2003, 74, 3549-3553.	1.3	13
26	Femtosecond laser induced surface deformation in multi-dimensional data storage. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	13
27	Time-stability measurement and compensation of a scanning probe microscope instrument. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 2027.	1.6	12
28	Two-stage optical recording: photoinduced birefringence and surface-mediated bits storage in bisazo-containing copolymers towards ultrahigh data memory. <i>Optics Express</i> , 2016, 24, 23557.	3.4	12
29	Three-dimensional displacements of a piezoelectric tube scanner. <i>Review of Scientific Instruments</i> , 1998, 69, 226-229.	1.3	10
30	Application of a novel nonperiodic grating in scanning probe microscopy drift measurement. <i>Review of Scientific Instruments</i> , 2007, 78, 073701.	1.3	9
31	Force analysis and path planning of the trapped cell in robotic manipulation with optical tweezers. , 2010, , .		9
32	Dynamic analysis of piezoelectric elements. <i>Review of Scientific Instruments</i> , 1995, 66, 4157-4160.	1.3	8
33	Transient responses of a piezoelectric tube scanner. <i>Review of Scientific Instruments</i> , 1997, 68, 4483-4487.	1.3	8
34	Optimal design and fabrication of three-dimensional calibration specimens for scanning probe microscopy. <i>Review of Scientific Instruments</i> , 2012, 83, 053708.	1.3	8
35	Design and laser fabrication of controllable non-Gaussian roughness surfaces at microscale. <i>Applied Surface Science</i> , 2013, 276, 95-100.	6.1	8
36	Fast Bits Recording in Photoisomeric Polymers by Phase-Modulated Femtosecond Laser. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1154-1156.	2.5	8

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37	Microsensors and actuator arrays based on Pb(Zr,Ti)O ₃ thin film for AFM data storage. , 2001, , .		7
38	Optical properties of a novel nonlinear chromophore doped polymer and application for two-photon microfabrication. Physica Status Solidi A, 2005, 202, 2515-2520.	1.7	7
39	Path planning in automated manipulation of biological cells with optical tweezers. , 2009, , .		7
40	A mechanical model of biological cells in microinjection. , 2009, , .		7
41	Multi-carbazole derivatives for two-photon absorption data storage: Synthesis, optical properties and theoretical calculation. Science China Chemistry, 2010, 53, 884-890.	8.2	7
42	Numerical and Experimental Study of the Structural Color by Widening the Pore Size of Nanoporous Anodic Alumina. Journal of Nanomaterials, 2014, 2014, 1-10.	2.7	7
43	Influences of Geometrical Factors on Quantitative Surface Roughness Evaluations by Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2009, 9, 893-896.	0.9	6
44	Comparative study on the nonperiodic and periodic gratings for scanning probe microscopy drift measurements. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 1070-1072.	1.2	6
45	Effects of temperature and humidity on atomic force microscopy dimensional measurement. Microscopy Research and Technique, 2015, 78, 562-568.	2.2	6
46	Nanoalignment mask fabricated directly on Si by AFM. Surface and Interface Analysis, 2001, 32, 130-132.	1.8	5
47	Mechanical modeling characterization of biological cells using microrobotics cell injection test bed. , 2009, , .		5
48	Focused Ion Beam Fabrication and Atomic Force Microscopy Characterization of Micro/Nanoroughness Artifacts With Specified Statistic Quantities. IEEE Nanotechnology Magazine, 2014, 13, 563-573.	2.0	5
49	Optimization of Zero-Reference Grating Considering Tip Distortions for Scanning Probe Microscopy Drift Measurement. Journal of Nanoscience and Nanotechnology, 2010, 10, 7055-7059.	0.9	4
50	Dynamics of an atomic force microscope probe in liquid investigated via three-dimensional mode. Measurement Science and Technology, 2010, 21, 105503.	2.6	4
51	Micro device mould fabrication based on two-photon polymerization and electroforming. , 2010, , .		4
52	Force and motion analysis for automated cell transportation with optical tweezers. , 2011, , .		4
53	Study on the rewritability of bisazobenzene-containing films in optical storage based on two-photon process. Optics Communications, 2011, 284, 802-806.	2.1	4
54	A comparative experimental study on sample excitation and probe excitation in force modulation atomic force microscopy. Measurement Science and Technology, 2013, 24, 025403.	2.6	4

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55	Spectral Analysis of Irregular Roughness Artifacts Measured by Atomic Force Microscopy and Laser Scanning Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1682-1691.	0.4	3
56	Analysis of vibrating mode scanning polarization force microscope. <i>Review of Scientific Instruments</i> , 2004, 75, 4721-4726.	1.3	2
57	Three-dimensional optical storage recording by microexplosion in a doped PMMA polymer. , 2005, , .		2
58	New method of two-photon multi-layer optical disc storage. , 2006, 6150, 753.		2
59	A new type of three-finger micro-tweezers. <i>Measurement Science and Technology</i> , 2006, 17, 510-512.	2.6	2
60	Force characterization of live cells in automated transportation with robot-tweezers manipulation system. , 2010, , .		2
61	Mechanism and analysis of structural color in two typical butterfly scales. , 2010, , .		2
62	Elimination of periodic damped artifacts in scanning probe microscopy images. <i>Measurement Science and Technology</i> , 2010, 21, 045501.	2.6	2
63	Methods for Vertical Drift Measurements of Scanning Probe Microscopes. <i>Analytical Sciences</i> , 2011, 27, 149.	1.6	2
64	Automatic Glitch Elimination of Scanning Probe Microscopy Images. <i>Analytical Sciences</i> , 2011, 27, 153.	1.6	2
65	Tunable structural colour on the basis of colloidal crystal. <i>Micro and Nano Letters</i> , 2011, 6, 530.	1.3	2
66	Relationship between the size of SiO ₂ nanospheres and the structure colour. <i>Micro and Nano Letters</i> , 2011, 6, 527.	1.3	2
67	Topographic Contrast in Force Modulation Atomic Force Microscopy Images. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 056601.	1.5	2
68	Three-dimensional optical data storage in a novel dye doped polymer film using two-photon bleaching. , 2005, , .		1
69	Microdevice assembling by adhesive type probe in humid environment. <i>Review of Scientific Instruments</i> , 2005, 76, 085104.	1.3	1
70	Polarization storage by two-photon absorption method in a diazobenzene/MMA copolymer. , 2008, , .		1
71	Mechanical characterization of human red blood cells by robotic manipulation with optical tweezers. , 2009, , .		1
72	Mechanical Properties of RF Magnetron Sputtering ZnO Thin Film by Nanoindentation. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1048-1050.	0.9	1

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73	Influence of microstructure-confined fluids on the atomic force microscope probe dynamics. Micro and Nano Letters, 2011, 6, 914.	1.3	1
74	Fabrication and characterization of piezoelectric cantilever array with nano-assembly carbon nanotube tips. , 2012, , .		1
75	An improved method for computer generation of three-dimensional digital holography. Journal of Optics (United Kingdom), 2013, 15, 125704.	2.2	1
76	Analysis and correction of drift-induced distortions on quantitative SPM surface roughness evaluations. Proceedings of SPIE, 2014, , .	0.8	1
77	Environmental temperature effect on dimensional measurements of atomic force microscopy. Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering, 2021, 4, 023003.	3.2	1
78	<title>Analysis of near-field light intensity</title>. , 1996, , .		0
79	Optimization of two-photon excitation for 3D optical data storage. , 2001, , .		0
80	<title>2-photon microfabrication of log-pile photonic crystal and theoretical analysis on its character</title>. , 2004, , .		0
81	Investigation of novel two-photon diarylethene for 3D optical data storage. , 2005, 5643, 1.		0
82	Analysis of micro lens fabrication via femtosecond laser. , 2006, 6149, 734.		0
83	PZT Film and Si Substrate Two-Layer System Patterning Morphology by Femtosecond Pulsed Laser. , 2007, , 1309.		0
84	Synchronizing focus error detection of dual-pickup heads in a multi-layer data storage system. Frontiers of Optoelectronics in China, 2008, 1, 183-187.	0.2	0
85	Measurement of optical near field of a nanoscale aperture. Proceedings of SPIE, 2008, , .	0.8	0
86	Fabrication of micro gear with new technologies. , 2009, , .		0
87	Magnetic Field Analysis of a New 3-Axis Optical Pickup Actuator Based on ANSYS. , 2009, , .		0
88	Robotic manipulation of human red blood cells with optical tweezers for cell property characterization. , 2010, , .		0
89	Effect of tunable structural color caused by colloidal crystal. , 2011, , .		0
90	Relationship between the size of SiO ₂ nano spheres and the structure color. , 2011, , .		0

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91	The comparison of fabricating colorful patterns on stainless steel with femtosecond and nanosecond laser pulses. , 2011, , .		0
92	Controllable multiple structural colours on the same substrate. International Journal of Nanomanufacturing, 2011, 7, 528.	0.3	0
93	AM-derivative Spectrophotometry with High Signal-to-Noise Ratio for UV-Vis Spectrophotometer. , 2012, , .		0
94	Individually controlled multi-focus on a line for two-photon polymerization based on computer-generated holograms. , 2013, , .		0
95	Single-beam two-photon recording and one-photon fluorescent reading three-dimensional optical data storage system. , 2006, , .		0