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	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
2	Two-stage optical recording: photoinduced birefringence and surface-mediated bits storage in bisazo-containing copolymers towards ultrahigh data memory. Optics Express, 2016, 24, 23557.	3.4	12
3	Effects of temperature and humidity on atomic force microscopy dimensional measurement. Microscopy Research and Technique, 2015, 78, 562-568.	2.2	6
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	An improved multi-exposure approach for high quality holographic femtosecond laser patterning. Applied Physics Letters, 2014, 105, .	3. 3	28
6	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
7	Two-photon polymerization of cylinder microstructures by femtosecond Bessel beams. Applied Physics Letters, 2014, 105, 041110.	3. 3	44
8	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
9	Fast Bits Recording in Photoisomeric Polymers by Phase-Modulated Femtosecond Laser. IEEE Photonics Technology Letters, 2014, 26, 1154-1156.	2.5	8
10	Spectral Analysis of Irregular Roughness Artifacts Measured by Atomic Force Microscopy and Laser Scanning Microscopy. Microscopy and Microanalysis, 2014, 20, 1682-1691.	0.4	3
11	Analysis and correction of drift-induced distortions on quantitative SPM surface roughness evaluations. Proceedings of SPIE, 2014, , .	0.8	1
12	Dynamics Analysis and Motion Planning for Automated Cell Transportation With Optical Tweezers. IEEE/ASME Transactions on Mechatronics, 2013, 18, 706-713.	5 . 8	94
13	Design and laser fabrication of controllable non-Gaussian roughness surfaces at microscale. Applied Surface Science, 2013, 276, 95-100.	6.1	8
14	Fabrication and characterization of areal roughness specimens for applications in scanning probe microscopy. Measurement Science and Technology, 2013, 24, 055402.	2.6	14
15	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
16	Individually controlled multi-focus on a line for two-photon polymerization based on computer-generated holograms. , 2013, , .		0
17	An improved method for computer generation of three-dimensional digital holography. Journal of Optics (United Kingdom), 2013, 15, 125704.	2.2	1
18	High-efficiency fabrication of aspheric microlens arrays by holographic femtosecond laser-induced photopolymerization. Applied Physics Letters, 2013, 103, .	3.3	55

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19	Topographic Contrast in Force Modulation Atomic Force Microscopy Images. Japanese Journal of Applied Physics, 2012, 51, 056601.	1.5	2
20	Femtosecond laser induced surface deformation in multi-dimensional data storage. Applied Physics Letters, 2012, 101, .	3.3	13
21	Optimal design and fabrication of three-dimensional calibration specimens for scanning probe microscopy. Review of Scientific Instruments, 2012, 83, 053708.	1.3	8
22	Fabrication and characterization of piezoelectric cantilever array with nano-assembly carbon nanotube tips. , 2012 , , .		1
23	Two-photon induced data storage in hydrogen bonded supramolecular azopolymers. Optics Communications, 2012, 285, 4941-4945.	2.1	22
24	AM-derivative Spectrophtometry with High Signal-to-Noise Ratio for UV-Vis Spectrophotometer. , 2012,		0
25	Force and motion analysis for automated cell transportation with optical tweezers. , 2011, , .		4
26	Effect of tunable structural color caused by colloidal crystal., 2011,,.		0
27	Methods for Vertical Drift Measurements of Scanning Probe Microscopes. Analytical Sciences, 2011, 27, 149.	1.6	2
28	Automatic Glitch Elimination of Scanning Probe Microscopy Images. Analytical Sciences, 2011, 27, 153.	1.6	2
29	Tunable structural colour on the basis of colloidal crystal. Micro and Nano Letters, 2011, 6, 530.	1.3	2
30	Relationship between the size of SiO2 nanospheres and the structure colour. Micro and Nano Letters, 2011, 6, 527.	1.3	2
31	Influence of microstructure-confined fluids on the atomic force microscope probe dynamics. Micro and Nano Letters, 2011, 6, 914.	1.3	1
32	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
33	Mechanical force characterization in manipulating live cells with optical tweezers. Journal of Biomechanics, 2011, 44, 741-746.	2.1	98
34	Relationship between the size of SiO <inf>2</inf> nano spheres and the structure color., 2011,,.		0
35	The comparison of fabricating colorful patterns on stainless steel with femtosecond and nanosecond laser pulses., 2011,,.		0
36	Controllable multiple structural colours on the same substrate. International Journal of Nanomanufacturing, 2011, 7, 528.	0.3	0

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37	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
38	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
39	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
40	Morphology and composition on Al surface irradiated by femtosecond laser pulses. Applied Surface Science, 2010, 256, 4344-4349.	6.1	36
41	Ag nanoparticle/azopolymer nanocomposites: In situ synthesis, microstructure, rewritable optically induced birefringence and optical recording. Polymer, 2010, 51, 1395-1403.	3.8	24
42	Dynamics of an atomic force microscope probe in liquid investigated via three-dimensional mode. Measurement Science and Technology, 2010, 21, 105503.	2.6	4
43	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
44	Micro device mould fabrication based on two-photon polymerization and electroforming. , 2010, , .		4
45	Force analysis and path planning of the trapped cell in robotic manipulation with optical tweezers. , 2010, , .		9
46	Robotic manipulation of human red blood cells with optical tweezers for cell property characterization. , 2010, , .		0
47	Force characterization of live cells in automated transportation with robot-tweezers manipulation system. , 2010, , .		2
48	Mechanism and analysis of structural color in two typical butterfly scales. , 2010, , .		2
49	Elimination of periodic damped artifacts in scanning probe microscopy images. Measurement Science and Technology, 2010, 21, 045501.	2.6	2
50	Mechanical Modeling of Red Blood Cells During Optical Stretching. Journal of Biomechanical Engineering, 2010, 132, 044504.	1.3	25
51	Two-photon-induced polarization-multiplexed and multilevel storage in photoisomeric copolymer film. Optics Letters, 2010, 35, 46.	3.3	22
52	Characterizing Mechanical Properties of Biological Cells by Microinjection. IEEE Transactions on Nanobioscience, 2010, 9, 171-180.	3.3	39
53	Path planning in automated manipulation of biological cells with optical tweezers. , 2009, , .		7
54	Mechanical characterization of human red blood cells by robotic manipulation with optical tweezers. , 2009, , .		1

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55	Fabrication of micro gear with new technologies. , 2009, , .		О
56	Mechanical modeling characterization of biological cells using microrobotics cell injection test bed. , 2009, , .		5
57	Mechanical Properties of RF Magnetron Sputtering ZnO Thin Film by Nanoindentation. Journal of Nanoscience and Nanotechnology, 2009, 9, 1048-1050.	0.9	1
58	Magnetic Field Analysis of a New 3-Axis Optical Pickup Actuator Based on ANSYS., 2009,,.		0
59	Polarization storage by two-photon-induced anisotropy in bisazobenzene copolymer film. Optics Communications, 2009, 282, 3282-3285.	2.1	18
60	A mechanical model of biological cells in microinjection. , 2009, , .		7
61	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
62	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
63	Mechanical Modeling of Biological Cells in Microinjection. IEEE Transactions on Nanobioscience, 2008, 7, 257-266.	3.3	93
64	Polarization storage by two-photon absorption method in a diazobenzene/MMA copolymer. , 2008, , .		1
65	Measurement of optical near field of a nanoscale aperture. Proceedings of SPIE, 2008, , .	0.8	O
66	PZT Film and Si Substrate Two-Layer System Patterning Morphology by Femtosecond Pulsed Laser. , 2007, , 1309.		0
67	Application of a novel nonperiodic grating in scanning probe microscopy drift measurement. Review of Scientific Instruments, 2007, 78, 073701.	1.3	9
68	Micro lens fabrication by means of femtosecond two photon photopolymerization. Optics Express, 2006, 14, 810.	3.4	232
69	Analysis of micro lens fabrication via femtosecond laser., 2006, 6149, 734.		O
70	New method of two-photon multi-layer optical disc storage. , 2006, 6150, 753.		2
71	Photochromic diarylethene for two-photon 3D optical storage. Materials Letters, 2006, 60, 3553-3557.	2.6	106
72	A new type of three-finger micro-tweezers. Measurement Science and Technology, 2006, 17, 510-512.	2.6	2

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73	Single-beam two-photon recording and one-photon fluorescent reading three-dimensional optical data storage system. , 2006, , .		O
74	Three-dimensional optical storage recording by microexplosion in a doped PMMA polymer. , 2005, , .		2
75	Investigation of novel two-photon diarylethene for 3D optical data storage., 2005, 5643, 1.		0
76	Three-dimensional optical data storage in a novel dye doped polymer film using two-photon bleaching. , 2005, , .		1
77	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
78	Log-pile photonic crystal fabricated by two-photon photopolymerization. Journal of Optics, 2005, 7, 396-399.	1.5	39
79	Microdevice assembling by adhesive type probe in humid environment. Review of Scientific Instruments, 2005, 76, 085104.	1.3	1
80	Sm(DBM)_3Phen - doped poly(methyl methacrylate) for three-dimensional multilayered optical memory. Optics Letters, 2005, 30, 774.	3.3	26
81	Analysis of vibrating mode scanning polarization force microscope. Review of Scientific Instruments, 2004, 75, 4721-4726.	1.3	2
82	Numerical simulation of the geometrical factors affecting surface roughness measurements by AFM. Measurement Science and Technology, 2004, 15, 2005-2010.	2.6	72
83	<title>2-photon microfabrication of log-pile photonic crystal and theoretical analysis on its character</title> ., 2004, , .		0
84	Microstructure and electrical properties of Pb(Zr, Ti)O3 thick film prepared by electrostatic spray deposition. Sensors and Actuators A: Physical, 2003, 108, 2-6.	4.1	18
85	Design and analysis of two-dimensional zero-reference marks for alignment systems. Review of Scientific Instruments, 2003, 74, 3549-3553.	1.3	13
86	Preparation of Thick Pb(Zr, Ti)O3(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
87	Annealing effect for surface morphology and luminescence of ZnO film on silicon. Chemical Physics Letters, 2002, 364, 57-63.	2.6	63
88	Microsensors and actuator arrays based on Pb(Zr,Ti)O 3 thin film for AFM data storage., 2001,,.		7
89	Optimization of two-photon excitation for 3D optical data storage. , 2001, , .		0
90	Nanoalignment mask fabricated directly on Si by AFM. Surface and Interface Analysis, 2001, 32, 130-132.	1.8	5

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91	Time-stability measurement and compensation of a scanning probe microscope instrument. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2027.	1.6	12
92	Three-dimensional displacements of a piezoelectric tube scanner. Review of Scientific Instruments, 1998, 69, 226-229.	1.3	10
93	Transient responses of a piezoelectric tube scanner. Review of Scientific Instruments, 1997, 68, 4483-4487.	1.3	8
94	<title>Analysis of near-field light intensity</title> ., 1996, , .		0
95	Dynamic analysis of piezoelectric elements. Review of Scientific Instruments, 1995, 66, 4157-4160.	1.3	8