

Houxun Miao

List of Publications by Year in descending order

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57
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567281

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times ranked

1414
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral line-by-line pulse shaping of on-chip microresonator frequency combs. <i>Nature Photonics</i> , 2011, 5, 770-776.	31.4	402
2	Optomechanical Transduction of an Integrated Silicon Cantilever Probe Using a Microdisk Resonator. <i>Nano Letters</i> , 2011, 11, 791-797.	9.1	123
3	A universal moiré effect and application in X-ray phase-contrast imaging. <i>Nature Physics</i> , 2016, 12, 830-834.	16.7	99
4	Spectral Line-by-Line Pulse Shaping on an Optical Frequency Comb Generator. <i>IEEE Journal of Quantum Electronics</i> , 2007, 43, 1163-1174.	1.9	74
5	Observation of correlation between route to formation, coherence, noise, and communication performance of Kerr combs. <i>Optics Express</i> , 2012, 20, 29284.	3.4	71
6	A microelectromechanically controlled cavity optomechanical sensing system. <i>New Journal of Physics</i> , 2012, 14, 075015.	2.9	66
7	Wide cantilever stiffness range cavity optomechanical sensors for atomic force microscopy. <i>Optics Express</i> , 2012, 20, 18268.	3.4	59
8	Motionless phase stepping in X-ray phase contrast imaging with a compact source. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19268-19272.	7.1	44
9	Fabrication of 200 nm Period Hard X-ray Phase Gratings. <i>Nano Letters</i> , 2014, 14, 3453-3458.	9.1	32
10	Optical arbitrary waveform characterization via dual-quadrature spectral shearing interferometry. <i>Optics Express</i> , 2009, 17, 3381.	3.4	31
11	Probing coherence in microcavity frequency combs via optical pulse shaping. <i>Optics Express</i> , 2012, 20, 21033.	3.4	28
12	Enhancing Tabletop X-Ray Phase Contrast Imaging with Nano-Fabrication. <i>Scientific Reports</i> , 2015, 5, 13581.	3.3	26
13	Ultralow-power second-harmonic generation frequency-resolved optical gating using aperiodically poled lithium niobate waveguides [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, A41.	2.1	24
14	Analysis of ultrashort-pulse second-harmonic generation in both phase- and group-velocity-matched structures. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 85-93.	1.9	23
15	Broadband all-order polarization mode dispersion compensation via wavelength-by-wavelength Jones matrix correction. <i>Optics Letters</i> , 2007, 32, 2360.	3.3	23
16	All-Order Polarization-Mode Dispersion (PMD) Compensation via Virtually Imaged Phased Array (VIPA)-Based Pulse Shaper. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 545-547.	2.5	15
17	Ultrasensitive nonlinear measurements of femtosecond pulses in the telecommunications band by aperiodically poled LiNbO ₃ waveguides. <i>Applied Optics</i> , 2007, 46, 6759.	2.1	13
18	Direct spectral phase retrieval of ultrashort pulses by double modified one-dimensional autocorrelation traces. <i>Optics Express</i> , 2008, 16, 20617.	3.4	13

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19	Cryogenic Etching of High Aspect Ratio 400-nm Pitch Silicon Gratings. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 963-967.	2.5	12
20	Flexible Retrospective Phase Stepping in X-Ray Scatter Correction and Phase Contrast Imaging Using Structured Illumination. <i>PLoS ONE</i> , 2013, 8, e78276.	2.5	11
21	Polarization-insensitive ultralow-power second-harmonic generation frequency-resolved optical gating. <i>Optics Letters</i> , 2007, 32, 874.	3.3	8
22	Interferometric hard x-ray phase contrast imaging at 204 nm grating period. <i>Review of Scientific Instruments</i> , 2013, 84, 013706.	1.3	6
23	All-Order Polarization-Mode-Dispersion (PMD) Compensation at 40 Gb/s via Hyperfine Resolution Optical Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1078-1080.	2.5	5
24	Effect of alternating Ar and SF ₆ /C ₄ F ₈ gas flow in Si nano-structure plasma etching. <i>Microelectronic Engineering</i> , 2011, 88, 2470-2473.	2.4	5
25	Motionless electromagnetic phase stepping versus mechanical phase stepping in x-ray phase-contrast imaging with a compact source. <i>Physics in Medicine and Biology</i> , 2015, 60, 3031-3043.	3.0	5
26	The role of nonmuscle myosin 2A and 2B in the regulation of mesenchymal cell contact guidance. <i>Molecular Biology of the Cell</i> , 2019, 30, 1961-1973.	2.1	5
27	Analysis of Signal Degree of Polarization Degradation Induced by Polarization-Mode Dispersion in Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 2475-2477.	2.5	4
28	Sensing and compensation of femtosecond waveform distortion induced by all-order polarization mode dispersion at selected polarization states. <i>Optics Letters</i> , 2007, 32, 424.	3.3	4
29	Polarization mode dispersion spectrum measurement via high-speed wavelength-parallel polarimetry. <i>Applied Optics</i> , 2009, 48, 4688.	2.1	4
30	Electrodeposition of Gold to Conformally Fill High-Aspect-Ratio Nanometric Silicon Grating Trenches: A Comparison of Pulsed and Direct Current Protocols. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2015, 05, 207-213.	0.2	4
31	Correlative Detection of Isolated Single and Multi-Cellular Calcifications in the Internal Elastic Lamina of Human Coronary Artery Samples. <i>Scientific Reports</i> , 2018, 8, 10978.	3.3	4
32	Feed-Forward Polarization-Mode Dispersion Compensation With Four Fixed Differential Group Delay Elements. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 1056-1058.	2.5	3
33	Ultrasensitive Second-Harmonic Generation Frequency-Resolved Optical Gating Using a Fiber-Pigtailed Aperiodically Poled Lithium Niobate Waveguide at 1.55 μ m. <i>Springer Series in Chemical Physics</i> , 2007, , 157-159.	0.2	3
34	Spectral Line-by-Line Pulse Shaping of an On-Chip Microresonator Frequency Comb. , 2011, , .		3
35	Broadband All-Order Polarization Mode Dispersion Compensation by Characterization and Inversion of Jones Matrices on a Wavelength-by-Wavelength Basis. , 2007, , .		2
36	Wideband Deterministic All-Order Polarization-Mode Dispersion Generation via Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 159-161.	2.5	2

#	ARTICLE	IF	CITATIONS
37	Integrated MEMS Tunable High Quality Factor Optical Cavity for Optomechanical Transduction. , 2010, , .		2
38	Feed-forward polarization mode dispersion compensation with a step control algorithm. Optics Communications, 2003, 222, 179-189.	2.1	1
39	Broadband All-Order Polarization Mode Dispersion Compensation. , 2007, , .		1
40	Integrated cavity optomechanical sensors for atomic force microscopy. , 2012, , .		1
41	Scheme for feed-forward polarization mode dispersion compensation. Applied Optics, 2004, 43, 1577.	2.1	0
42	All-Order PMD Compensation via VIPA Based Pulse Shapers. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
43	All-Order PMD Compensation of Sub-picosecond Optical Pulses with Arbitrary Input States of Polarization. LEOS Summer Topical Meeting, 2007, , .	0.0	0
44	Polarization-Insensitive Ultralow-Power Second-Harmonic Generation Frequency-Resolved Optical Gating. , 2007, , .		0
45	All-Order PMD Compensation via VIPA Based Pulse Shaper. , 2008, , .		0
46	Direct spectral phase retrieval of ultrashort pulses by double one-dimensional autocorrelation traces. , 2008, , .		0
47	Optomechanical transduction of a cantilever probe using a high-Q Si microdisk cavity. , 2010, , .		0
48	SiN based on-chip microresonator frequency combs and application to optical arbitrary waveform generation. , 2011, , .		0
49	Time Domain Study of On-Chip Microresonator Frequency Combs. , 2012, , .		0
50	Optical communication test of multiple-wavelength comb source from silicon nitride microresonators. , 2012, , .		0
51	On-chip microresonator frequency combs formation: Observation of comb line dependent mutual coherence. , 2012, , .		0
52	MEMS and NEMS with integrated cavity optomechanical readout. , 2013, , .		0
53	Deep silicon etching for X-ray diffraction devices fabrication. , 2017, , .		0
54	All-Order Polarization Mode Dispersion (PMD) Compensation in 10Gbit/s—4 OTDM System via Hyperfine Resolution Optical Pulse Shaper. , 2010, , .		0

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55	A MEMS Controlled Cavity Optomechanical Sensing System. , 2012, , .		0
56	Microresonator-Based Optical Frequency Combs: Time-Domain Studies. , 2012, , .		0
57	Integrated silicon optomechanical transducers and their application in atomic force microscopy. , 2014, , .		0