

Houxun Miao

List of Publications by Year in descending order

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57
papers

1,261
citations

567281

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361022

35
g-index

57
all docs

57
docs citations

57
times ranked

1414
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Deep silicon etching for X-ray diffraction devices fabrication. , 2017, , . | | 0 |
| 4 | A universal moiré effect and application in X-ray phase-contrast imaging. <i>Nature Physics</i> , 2016, 12, 830-834. | 16.7 | 99 |
| 5 | Cryogenic Etching of High Aspect Ratio 400-nm Pitch Silicon Gratings. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 963-967. | 2.5 | 12 |
| 6 | Enhancing Tabletop X-Ray Phase Contrast Imaging with Nano-Fabrication. <i>Scientific Reports</i> , 2015, 5, 13581. | 3.3 | 26 |
| 7 | 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 |
| 8 | 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 |
| 9 | Fabrication of 200 nm Period Hard X-ray Phase Gratings. <i>Nano Letters</i> , 2014, 14, 3453-3458. | 9.1 | 32 |
| 10 | Integrated silicon optomechanical transducers and their application in atomic force microscopy. , 2014, , . | | 0 |
| 11 | Interferometric hard x-ray phase contrast imaging at 204 nm grating period. <i>Review of Scientific Instruments</i> , 2013, 84, 013706. | 1.3 | 6 |
| 12 | MEMS and NEMS with integrated cavity optomechanical readout. , 2013, , . | | 0 |
| 13 | 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 |
| 14 | 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 |
| 15 | A microelectromechanically controlled cavity optomechanical sensing system. <i>New Journal of Physics</i> , 2012, 14, 075015. | 2.9 | 66 |
| 16 | Wide cantilever stiffness range cavity optomechanical sensors for atomic force microscopy. <i>Optics Express</i> , 2012, 20, 18268. | 3.4 | 59 |
| 17 | Probing coherence in microcavity frequency combs via optical pulse shaping. <i>Optics Express</i> , 2012, 20, 21033. | 3.4 | 28 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | Time Domain Study of On-Chip Microresonator Frequency Combs. , 2012, , . | | 0 |
| 20 | Integrated cavity optomechanical sensors for atomic force microscopy. , 2012, , . | | 1 |
| 21 | Optical communication test of multiple-wavelength comb source from silicon nitride microresonators. , 2012, , . | | 0 |
| 22 | On-chip microresonator frequency combs formation: Observation of comb line dependent mutual coherence. , 2012, , . | | 0 |
| 23 | A MEMS Controlled Cavity Optomechanical Sensing System. , 2012, , . | | 0 |
| 24 | Microresonator-Based Optical Frequency Combs: Time-Domain Studies. , 2012, , . | | 0 |
| 25 | SiN based on-chip microresonator frequency combs and application to optical arbitrary waveform generation. , 2011, , . | | 0 |
| 26 | Optomechanical Transduction of an Integrated Silicon Cantilever Probe Using a Microdisk Resonator. Nano Letters, 2011, 11, 791-797. | 9.1 | 123 |
| 27 | Spectral line-by-line pulse shaping of on-chip microresonator frequency combs. Nature Photonics, 2011, 5, 770-776. | 31.4 | 402 |
| 28 | Effect of alternating Ar and SF ₆ /C ₄ F ₈ gas flow in Si nano-structure plasma etching. Microelectronic Engineering, 2011, 88, 2470-2473. | 2.4 | 5 |
| 29 | Spectral Line-by-Line Pulse Shaping of an On-Chip Microresonator Frequency Comb. , 2011, , . | | 3 |
| 30 | All-Order Polarization-Mode-Dispersion (PMD) Compensation at 40 Gb/s via Hyperfine Resolution Optical Pulse Shaping. IEEE Photonics Technology Letters, 2010, 22, 1078-1080. | 2.5 | 5 |
| 31 | Optomechanical transduction of a cantilever probe using a high-Q Si microdisk cavity. , 2010, , . | | 0 |
| 32 | All-Order Polarization Mode Dispersion (PMD) Compensation in 10Gbit/s—4 OTDM System via Hyperfine Resolution Optical Pulse Shaper. , 2010, , . | | 0 |
| 33 | Integrated MEMS Tunable High Quality Factor Optical Cavity for Optomechanical Transduction. , 2010, , . | | 2 |
| 34 | Optical arbitrary waveform characterization via dual-quadrature spectral shearing interferometry. Optics Express, 2009, 17, 3381. | 3.4 | 31 |
| 35 | Polarization mode dispersion spectrum measurement via high-speed wavelength-parallel polarimetry. Applied Optics, 2009, 48, 4688. | 2.1 | 4 |
| 36 | Wideband Deterministic All-Order Polarization-Mode Dispersion Generation via Pulse Shaping. IEEE Photonics Technology Letters, 2008, 20, 159-161. | 2.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | All-Order Polarization-Mode Dispersion (PMD) Compensation via Virtually Imaged Phased Array (VIPA)-Based Pulse Shaper. IEEE Photonics Technology Letters, 2008, 20, 545-547. | 2.5 | 15 |
| 38 | Ultralow-power second-harmonic generation frequency-resolved optical gating using aperiodically poled lithium niobate waveguides [Invited]. Journal of the Optical Society of America B: Optical Physics, 2008, 25, A41. | 2.1 | 24 |
| 39 | Direct spectral phase retrieval of ultrashort pulses by double modified one-dimensional autocorrelation traces. Optics Express, 2008, 16, 20617. | 3.4 | 13 |
| 40 | All-Order PMD Compensation via VIPA Based Pulse Shaper. , 2008, , . | | 0 |
| 41 | Direct spectral phase retrieval of ultrashort pulses by double one-dimensional autocorrelation traces. , 2008, , . | | 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 | Broadband All-Order Polarization Mode Dispersion Compensation. , 2007, , . | | 1 |
| 45 | Sensing and compensation of femtosecond waveform distortion induced by all-order polarization mode dispersion at selected polarization states. Optics Letters, 2007, 32, 424. | 3.3 | 4 |
| 46 | Polarization-insensitive ultralow-power second-harmonic generation frequency-resolved optical gating. Optics Letters, 2007, 32, 874. | 3.3 | 8 |
| 47 | Broadband all-order polarization mode dispersion compensation via wavelength-by-wavelength Jones matrix correction. Optics Letters, 2007, 32, 2360. | 3.3 | 23 |
| 48 | Ultrasensitive nonlinear measurements of femtosecond pulses in the telecommunications band by aperiodically poled LiNbO ₃ waveguides. Applied Optics, 2007, 46, 6759. | 2.1 | 13 |
| 49 | Spectral Line-by-Line Pulse Shaping on an Optical Frequency Comb Generator. IEEE Journal of Quantum Electronics, 2007, 43, 1163-1174. | 1.9 | 74 |
| 50 | Polarization-Insensitive Ultralow-Power Second-Harmonic Generation Frequency-Resolved Optical Gating. , 2007, , . | | 0 |
| 51 | Broadband All-Order Polarization Mode Dispersion Compensation by Characterization and Inversion of Jones Matrices on a Wavelength-by-Wavelength Basis. , 2007, , . | | 2 |
| 52 | Ultrasensitive Second-Harmonic Generation Frequency-Resolved Optical Gating Using a Fiber-Pigtailed Aperiodically Poled Lithium Niobate Waveguide at 1.55 μ m. Springer Series in Chemical Physics, 2007, , 157-159. | 0.2 | 3 |
| 53 | Analysis of ultrashort-pulse second-harmonic generation in both phase- and group-velocity-matched structures. IEEE Journal of Quantum Electronics, 2005, 41, 85-93. | 1.9 | 23 |
| 54 | Feed-Forward Polarization-Mode Dispersion Compensation With Four Fixed Differential Group Delay Elements. IEEE Photonics Technology Letters, 2004, 16, 1056-1058. | 2.5 | 3 |

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|----|--|-----|-----------|
| 55 | Analysis of Signal Degree of Polarization Degradation Induced by Polarization-Mode Dispersion in Optical Fibers. IEEE Photonics Technology Letters, 2004, 16, 2475-2477. | 2.5 | 4 |
| 56 | Scheme for feed-forward polarization mode dispersion compensation. Applied Optics, 2004, 43, 1577. | 2.1 | 0 |
| 57 | Feed-forward polarization mode dispersion compensation with a step control algorithm. Optics Communications, 2003, 222, 179-189. | 2.1 | 1 |