

Morten Bache

List of Publications by Year in descending order

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112
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114
docs citations

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times ranked

2350
citing authors

#	ARTICLE	IF	CITATIONS
1	Octave-spanning frequency comb generation in all-normal-dispersion silicon-rich silicon nitride waveguide. , 2020, , .		4
2	Power Dependent Noise Performance of fs Supercontinuum Generation in Normal Dispersion Fibers with a Long Zero-Dispersion Wavelength. , 2019, , .		0
3	Deep-UV to Mid-IR Supercontinuum Generation driven by Mid-IR Ultrashort Pulses in a Gas-filled Hollow-core Fiber. Scientific Reports, 2019, 9, 4446.	1.6	78
4	Poor-manâ€™s model of hollow-core anti-resonant fibers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 69.	0.9	21
5	Directional supercontinuum generation: the role of the soliton. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A131.	0.9	11
6	Ultra-low-noise supercontinuum generation with a flat near-zero normal dispersion fiber. Optics Letters, 2019, 44, 2216.	1.7	47
7	Directional supercontinuum generation. , 2018, , .		0
8	Multi-stage generation of extreme ultraviolet dispersive waves by tapering gas-filled hollow-core anti-resonant fibers. Optics Express, 2018, 26, 24357.	1.7	20
9	Extending the UV Supercontinuum by Tapering Gas-Filled Hollow-Core Anti-Resonant Fibers. , 2018, , .		0
10	Ultrafast nonlinear dynamics of thin gold films due to an intrinsic delayed nonlinearity. Journal of Optics (United Kingdom), 2017, 19, 094004.	1.0	5
11	Parametrically Tunable Soliton-Induced Resonant Radiation by Three-Wave Mixing. Physical Review Letters, 2017, 118, 143901.	2.9	13
12	Influence of dispersion of nonlinearity on coherent supercontinuum generation bandwidth in photonic crystal fibers pumped at 2 1/4m. , 2017, , .		0
13	Toward single-mode UV to near-IR guidance using hollow-core anti-resonant silica fiber. , 2017, , .		0
14	Curvature and position of nested tubes in hollow-core anti-resonant fibers. , 2017, , .		0
15	Soliton-plasma nonlinear dynamics in mid-IR gas-filled hollow-core fibers: publisherâ€™s note. Optics Letters, 2017, 42, 2943.	1.7	0
16	Soliton-plasma nonlinear dynamics in mid-IR gas-filled hollow-core fibers. Optics Letters, 2017, 42, 2232.	1.7	45
17	Experimental verification of the intrinsic ultrafast delayed nonlinearity of gold. , 2017, , .		0
18	Multiple soliton compression stages in mid-IR gas-filled hollow-core fibers. , 2017, , .		0

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19	Generation of multiple VUV dispersive waves using a tapered gas-filled hollow-core anti-resonant fiber. , 2017, , .		0
20	Coherent supercontinuum bandwidth limitations under femtosecond pumping at 2 Åµm in all-solid soft glass photonic crystal fibers. Optics Express, 2016, 24, 29406.	1.7	29
21	Nonlinear propagation of surface plasmon-polaritons in gold stripe waveguides. , 2016, , .		0
22	Antiresonant hollow core fiber with seven nested capillaries. , 2016, , .		4
23	Invited Article: Multiple-octave spanning high-energy mid-IR supercontinuum generation in bulk quadratic nonlinear crystals. APL Photonics, 2016, 1, .	3.0	27
24	Low loss mid-IR transmission bands using silica hollow-core anisotropic anti-resonant fibers. , 2016, , .		0
25	Low-loss single-mode hollow-core fiber with anisotropic anti-resonant elements. Optics Express, 2016, 24, 8429.	1.7	94
26	Octave-spanning supercontinuum generation in a silicon-rich nitride waveguide. Optics Letters, 2016, 41, 2719.	1.7	69
27	Nonlinear Dynamics of Ultrashort Long-Range Surface Plasmon Polariton Pulses in Gold Strip Waveguides. ACS Photonics, 2016, 3, 2324-2329.	3.2	27
28	Nonlinear effects in propagation of long-range surface plasmon polaritons in gold strip waveguides. , 2016, , .		0
29	Nonlinear optical model for strip plasmonic waveguides. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1341.	0.9	9
30	Third-order susceptibility of gold for ultrathin layers. Optics Letters, 2016, 41, 317.	1.7	22
31	Low-Loss Hollow-Core Anti-Resonant Fibers With Semi-Circular Nested Tubes. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 156-161.	1.9	37
32	Octave-spanning Supercontinuum Generation in a Silicon-rich Nitride Waveguide. , 2016, , .		0
33	Anisotropic Anti-resonant Elements gives Broadband Single-mode Low-loss Hollow-core Fibers. , 2016, , .		1
34	Supercontinuum generation in quadratic nonlinear waveguides without quasi-phase matching. Optics Letters, 2015, 40, 629.	1.7	17
35	Mid-IR femtosecond frequency conversion by soliton-probe collision in phase-mismatched quadratic nonlinear crystals. Optics Letters, 2015, 40, 3798.	1.7	12
36	Energetic mid-IR femtosecond pulse generation by self-defocusing soliton-induced dispersive waves in a bulk quadratic nonlinear crystal. Optics Express, 2015, 23, 6924.	1.7	25

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37	Low-loss hollow-core silica fibers with adjacent nested anti-resonant tubes. Optics Express, 2015, 23, 17394.	1.7	89
38	Dispersive waves induced by self-defocusing temporal solitons in a beta-barium-borate crystal. Optics Letters, 2015, 40, 4257.	1.7	22
39	Few-cycle solitons and supercontinuum generation with cascaded quadratic nonlinearities in unpoled lithium niobate ridge waveguides. Optics Letters, 2014, 39, 1105.	1.7	11
40	Efficient Femtosecond Mid-infrared Pulse Generation by Dispersive Wave Radiation in Bulk Lithium Niobate Crystal. , 2014, , .		0
41	Highly coherent mid-IR supercontinuum by self-defocusing solitons in lithium niobate waveguides with all-normal dispersion. Optics Express, 2014, 22, 12211.	1.7	6
42	Octave-Spanning Mid-IR Supercontinuum Generation with Ultrafast Cascaded Nonlinearities. , 2014, , .		0
43	Soliton-induced nonlocal resonances observed through high-intensity tunable spectrally compressed second-harmonic peaks. Physical Review A, 2014, 90, .	1.0	18
44	Low-energy Self-defocusing Soliton Compression at Optical Communication Wavelengths in Unpoled Lithium Niobate Ridge Waveguide. , 2014, , .		0
45	High-energy pulse compressor using self-defocusing spectral broadening in anomalously dispersive media. , 2014, , .		0
46	Experiments on Cascaded Quadratic Soliton Compression in Unpoled LN Waveguide. , 2014, , .		0
47	Understanding Soliton Spectral Tunneling as a Spectral Coupling Effect. IEEE Photonics Technology Letters, 2013, 25, 1928-1931.	1.3	24
48	Generating mid-IR octave-spanning supercontinua and few-cycle pulses with solitons in phase-mismatched quadratic nonlinear crystals. Optical Materials Express, 2013, 3, 1647.	1.6	38
49	The anisotropic Kerr nonlinear refractive index of the beta-barium borate (\hat{i}^2 -BaB_2O_4) nonlinear crystal. Optical Materials Express, 2013, 3, 357.	1.6	39
50	Nonlinear wave equation in frequency domain: accurate modeling of ultrafast interaction in anisotropic nonlinear media. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 494.	0.9	17
51	Completely background free broadband coherent anti-Stokes Raman scattering spectroscopy. , 2013, , .		0
52	Directional selective nonlinear transmission of femtosecond pulses in glass-metal nanocomposites. , 2013, , .		0
53	Cross-correlation frequency-resolved optical gating by molecular vibration for ultrashort pulse. , 2013, , .		0
54	Near- and Mid-IR few-cycle self-defocusing soliton compression in PPLN waveguide. , 2013, , .		0

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55	The Kerr nonlinearity of the beta-barium borate crystal. , 2013, , .		0
56	Few-cycle nonlinear mid-IR pulse generated with cascaded quadratic nonlinearities. , 2013, , .		0
57	Higher-order Kerr effect and harmonic cascading in gases. , 2013, , .		0
58	Pressure tunable cascaded third order nonlinearity and temporal pulse switching. , 2013, , .		0
59	Soliton delay driven by cascading and Raman responses. , 2013, , .		0
60	Broadband Cherenkov radiation by using group-velocity-matching in index-guiding photonic crystal fiber. , 2013, , .		0
61	Temporal switching induced by cascaded third order nonlinearity. Optics Letters, 2012, 37, 5109.	1.7	3
62	High-energy Few-cycle Pulses Directly Generated from Strongly Phase-mismatched Lithium Niobate Crystal. , 2012, , .		0
63	Soliton compression to few-cycle pulses with a high quality factor by engineering cascaded quadratic nonlinearities. Optics Express, 2012, 20, 27071.	1.7	10
64	Higher-order Kerr effect and harmonic cascading in gases. Optics Letters, 2012, 37, 4612.	1.7	24
65	Quadratic solitons for negative effective second-harmonic diffraction as nonlocal solitons with periodic nonlocal response function. Physical Review A, 2012, 86, .	1.0	29
66	Spectral Compression of Intense Femtosecond Pulses by Self Phase Modulation in Silica Glass. , 2012, , .		0
67	Ultrafast and Octave-Spanning Optical Nonlinearities from Strongly Phase-Mismatched Quadratic Interactions. Physical Review Letters, 2012, 109, 043902.	2.9	65
68	Anomalous interaction of nonlocal solitons in media with competing nonlinearities. Physical Review A, 2012, 86, .	1.0	29
69	Critical Boundary of Cascaded Quadratic Soliton Compression in PPLN. , 2012, , .		0
70	Improving Soliton Compression Quality with Cascaded Nonlinearities by Engineered Multi-section Quasi-phase-matching Design. , 2012, , .		0
71	Improved thermal and strain performance of annealed polymer optical fiber Bragg gratings. Optics Communications, 2011, 284, 176-182.	1.0	140
72	Modulational instability and solitons in nonlocal media with competing nonlinearities. Physical Review A, 2011, 84, .	1.0	56

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73	Optical Cherenkov radiation by cascaded nonlinear interaction: an efficient source of few-cycle near-to mid-IR pulses. , 2011, , .		0
74	Type-I cascaded quadratic soliton compression in lithium niobate: Compressing femtosecond pulses from high-power fiber lasers. Physical Review A, 2010, 81, .	1.0	28
75	Optical Cherenkov radiation in ultrafast cascaded second-harmonic generation. Physical Review A, 2010, 82, .	1.0	45
76	Dispersive waves in fs cascaded second-harmonic generation. , 2009, , .		0
77	Designing microstructured polymer optical fibers for cascaded quadratic soliton compression of femtosecond pulses. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 460.	0.9	13
78	Limits to compression with cascaded quadratic soliton compressors. Optics Express, 2008, 16, 3273.	1.7	82
79	Compression limits in cascaded quadratic soliton compressors. , 2008, , .		1
80	Soliton Compression to Few-cycle Pulses Using Quadratic Nonlinear Photonic Crystal Fibers: A Design Study. , 2007, , .		0
81	Coherent imaging of a pure phase object with classical incoherent light. , 2007, , .		1
82	Soliton Compression to Few-cycle Pulses by Cascaded Quadratic Nonlinearities. , 2007, , .		0
83	Designing Quadratic Nonlinear Photonic Crystal Fibers for Soliton Compression to Few-cycle Pulses. , 2007, , .		1
84	Nonlocal explanation of stationary and nonstationary regimes in cascaded soliton pulse compression. Optics Letters, 2007, 32, 2490.	1.7	92
85	Scaling laws for soliton pulse compression by cascaded quadratic nonlinearities. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2752.	0.9	49
86	Tailoring the dispersion properties of photonic crystal fibers. Optical and Quantum Electronics, 2007, 39, 995-1008.	1.5	16
87	Ghost Imaging. , 2007, , 79-111.		6
88	Soliton compression to ultra-short pulses using cascaded quadratic nonlinearities in silica photonic crystal fibers. , 2007, , .		3
89	Quantum spatial correlations in high-gain parametric down-conversion measured by means of a CCD camera. Journal of Modern Optics, 2006, 53, 575-595.	0.6	17
90	Coherent imaging with pseudo-thermal incoherent light. Journal of Modern Optics, 2006, 53, 739-760.	0.6	213

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91	Coherent imaging of a pure phase object with classical incoherent light. Physical Review A, 2006, 73, .	1.0	86
92	Tuning quadratic nonlinear photonic crystal fibers for zero group-velocity mismatch. Optics Letters, 2006, 31, 1612.	1.7	25
93	Second-Harmonic Generation with Zero Group-Velocity Mismatch in Nonlinear Photonic Crystal Fibers. , 2006, , .		1
94	Tuning quadratic nonlinear photonic crystal fibers for zero group-velocity mismatch. , 2006, , .		2
95	Group-Velocity Matched Nonlinear Photonic Crystal Fibers. , 2006, , .		1
96	Cavity soliton laser based on VCSEL with saturable absorber. Applied Physics B: Lasers and Optics, 2005, 81, 913-920.	1.1	92
97	High-Resolution Ghost Image and Ghost Diffraction Experiments with Thermal Light. Physical Review Letters, 2005, 94, 183602.	2.9	631
98	Correlated imaging, quantum and classical. Physical Review A, 2004, 70, .	1.0	344
99	Ghost Imaging with Thermal Light: Comparing Entanglement and Classical Correlation. Physical Review Letters, 2004, 93, 093602.	2.9	742
100	Ghost imaging using homodyne detection. Physical Review A, 2004, 70, .	1.0	32
101	Correlated imaging with macroscopic fields. Fortschritte Der Physik, 2004, 52, 1080-1089.	1.5	5
102	Analysis of elliptically polarized states in vertical-cavity-surface-emitting lasers. Physical Review A, 2004, 69, .	1.0	15
103	Simultaneous near-field and far-field spatial quantum correlations in the high-gain regime of parametric down-conversion. Physical Review A, 2004, 69, .	1.0	164
104	Detection of Sub-Shot-Noise Spatial Correlation in High-Gain Parametric Down Conversion. Physical Review Letters, 2004, 93, 243601.	2.9	175
105	Ghost imaging schemes: fast and broadband. Optics Express, 2004, 12, 6067.	1.7	32
106	Correlated imaging: classical noise vs. quantum entanglement. , 2004, 5468, 262.		1
107	Nonclassical statistics of intracavity coupled $\chi^{(2)}$ waveguides: The quantum optical dimer. Physical Review A, 2003, 67, .	1.0	20
108	Observation of self-pulsing in singly resonant optical second-harmonic generation with competing nonlinearities. Physical Review A, 2002, 65, .	1.0	22

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109	Quantum properties of transverse pattern formation in second-harmonic generation. Physical Review A, 2002, 66, .	1.0	16
110	Modification of pattern formation in doubly resonant second-harmonic generation by competing parametric oscillation. Optics Letters, 2000, 25, 654.	1.7	21
111	Spiral Intensity Patterns in the Internally Pumped Optical Parametric Oscillator. Physical Review Letters, 2000, 85, 4506-4509.	2.9	20
112	Stationary space-periodic structures with equal diffusion coefficients. Physical Review E, 1999, 60, 297-301.	0.8	93