List of Publications by Year in descending order

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DETED HODAK

#	Article	IF	CITATIONS
1	Description of ultrashort pulse propagation in multimode optical fibers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1645.	2.1	360
2	Optical fiber nanowires and microwires: fabrication and applications. Advances in Optics and Photonics, 2009, 1, 107.	25.5	311
3	Cavity-Induced Atom Cooling in the Strong Coupling Regime. Physical Review Letters, 1997, 79, 4974-4977.	7.8	229
4	Optical microfiber coil resonator refractometric sensor. Optics Express, 2007, 15, 7888.	3.4	215
5	Mid-IR Supercontinuum Generation From Nonsilica Microstructured Optical Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 738-749.	2.9	181
6	Single-mode tellurite glass holey fiber with extremely large mode area for infrared nonlinear applications. Optics Express, 2008, 16, 13651.	3.4	140
7	Supercontinuum generation at 1.06 \hat{l} ¹ /4m in holey fibers with dispersion flattened profiles. Optics Express, 2006, 14, 4445.	3.4	137
8	Cooling an atom in a weakly driven high-Qcavity. Physical Review A, 1998, 58, 3030-3042.	2.5	115
9	Dynamics of femtosecond supercontinuum generation in multimode fibers. Optics Express, 2009, 17, 6134.	3.4	102
10	Supercontinuum generation in non-silica fibers. Optical Fiber Technology, 2012, 18, 327-344.	2.7	89
11	On the delayed self-heterodyne interferometric technique for determining the linewidth of fiber lasers. Optics Express, 2006, 14, 3923.	3.4	85
12	FCM _{PASS} Software Aids Extracellular Vesicle Light Scatter Standardization. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 569-581.	1.5	58
13	Design of dual-core optical fibers with NEMS functionality. Optics Express, 2014, 22, 1065.	3.4	52
14	Dispersion controlled highly nonlinear fibers for all-optical processing at telecoms wavelengths. Optical Fiber Technology, 2010, 16, 378-391.	2.7	51
15	Continuously tunable optical buffer with a dual silicon waveguide design. Optics Express, 2011, 19, 12456.	3.4	51
16	Optimized Design of Microcoil Resonators. Journal of Lightwave Technology, 2007, 25, 1561-1567.	4.6	49
17	Scattering theory of cooling and heating in optomechanical systems. Physical Review A, 2009, 79, .	2.5	49
18	Conical and biconical ultra-high-Q optical-fiber nanowire microcoil resonator. Applied Optics, 2007, 46, 570.	2.1	43

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19	Femtosecond surface plasmon pulse propagation. Optics Letters, 2011, 36, 250.	3.3	41
20	Dispersion-shifted all-solid high index-contrast microstructured optical fiber for nonlinear applications at 1551¼m. Optics Express, 2009, 17, 20249.	3.4	36
21	Nanomechanical optical fiber. Optics Express, 2012, 20, 29386.	3.4	35
22	Nonlinear dynamic of picosecond pulse propagation in atmospheric air-filled hollow core fibers. Optics Express, 2018, 26, 8866.	3.4	35
23	Polarization-Assisted Phase-Sensitive Processor. Journal of Lightwave Technology, 2015, 33, 1166-1174.	4.6	34
24	Near-zero dispersion, highly nonlinear lead-silicate W-type fiber for applications at 155114m. Optics Express, 2010, 18, 15747.	3.4	29
25	Nonlinear pulse dynamics in multimode silicon core optical fibers. Optics Letters, 2012, 37, 3351.	3.3	28
26	Soliton Spectral Tunneling in Dispersion-Controlled Holey Fibers. IEEE Photonics Technology Letters, 2008, 20, 1414-1416.	2.5	27
27	Intermodal Four-Wave Mixing and Parametric Amplification in Kilometer-Long Multimode Fibers. Journal of Lightwave Technology, 2017, 35, 5296-5305.	4.6	24
28	Designing Tapered Holey Fibers for Soliton Compression. IEEE Journal of Quantum Electronics, 2008, 44, 192-198.	1.9	22
29	Optomechanical Cooling with Generalized Interferometers. Physical Review Letters, 2010, 105, 013602.	7.8	22
30	Integrated polarizer based on 45° tilted gratings. Optics Express, 2019, 27, 11174.	3.4	22
31	Feasibility Study of SOA-Based Noise Suppression for Spectral Amplitude Coded OCDMA. Journal of Lightwave Technology, 2007, 25, 394-401.	4.6	21
32	Wavelength Conversion in a Short Length of a Solid Lead–Silicate Fiber. IEEE Photonics Technology Letters, 2010, 22, 628-630.	2.5	21
33	Reducing bit-error rate with optical phase regeneration in multilevel modulation formats. Optics Letters, 2013, 38, 5357.	3.3	21
34	Multimodal spectral focusing CARS and SFG microscopy with a tailored coherent continuum from a microstructured fiber. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	21
35	1.06 \$mu\$m Picosecond Pulsed, Normal Dispersion Pumping for Generating Efficient Broadband Infrared Supercontinuum in Meter-Length Single-Mode Tellurite Holey Fiber With High Raman Gain Coefficient. Journal of Lightwave Technology, 2011, 29, 3461-3469.	4.6	20
36	Optical Phase Quantizer Based on Phase Sensitive Four Wave Mixing at Low Nonlinear Phase Shifts. IEEE Photonics Technology Letters, 2014, 26, 2146-2149.	2.5	20

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37	Bandwidth enhancement of inter-modal four wave mixing Bragg scattering by means of dispersion engineering. APL Photonics, 2019, 4, 022902.	5.7	20
38	Optical microfiber coil resonator refractometric sensor: erratum. Optics Express, 2007, 15, 9385.	3.4	19
39	Multimode Nonlinear Fibre Optics: Theory and Applications. , 0, , .		19
40	Fiber cavities with integrated mode matching optics. Scientific Reports, 2017, 7, 5556.	3.3	19
41	Intermodal frequency generation in silicon-rich silicon nitride waveguides. Photonics Research, 2019, 7, 615.	7.0	19
42	Modal effects on pump-pulse propagation in an Ar-filled capillary. Optics Express, 2010, 18, 13279.	3.4	17
43	Excitation of individual Raman Stokes lines in the visible regime using rectangular-shaped nanosecond optical pulses at 530 nm. Optics Letters, 2010, 35, 2433.	3.3	17
44	Polarization-Insensitive Four-Wave-Mixing-Based Wavelength Conversion in Few-Mode Optical Fibers. Journal of Lightwave Technology, 2018, 36, 3678-3683.	4.6	16
45	Fast and broadband fiber dispersion measurement with dense wavelength sampling. Optics Express, 2014, 22, 943.	3.4	15
46	Phase matched parametric amplification via four-wave mixing in optical microfibers. Optics Letters, 2016, 41, 761.	3.3	15
47	Gas-induced differential refractive index enhanced guidance in hollow-core optical fibers. Optica, 2021, 8, 916.	9.3	15
48	Modification of the Er3+ radiative lifetime from proximity to silicon nanoclusters in silicon-rich silicon oxide. Optics Express, 2009, 17, 906.	3.4	13
49	Effect of intrinsic surface roughness on the efficiency of intermodal phase matching in silica optical nanofibers. Optics Letters, 2015, 40, 1318.	3.3	13
50	Prospective Use of High-Refractive Index Materials for Single Molecule Detection in Flow Cytometry. Sensors, 2018, 18, 2461.	3.8	12
51	Supercontinuum generation in tantalum pentoxide waveguides for pump wavelengths in the 900 nm to 1500 nm spectral region. Optics Express, 2020, 28, 32173.	3.4	12
52	Atom cooling using the dipole force of a single retroflected laser beam. Physical Review A, 2009, 80, .	2.5	11
53	A nanoporous gold membrane for sensing applications. Sensing and Bio-Sensing Research, 2016, 7, 133-140.	4.2	10
54	Comparative Numerical Studies of Ion Traps with Integrated Optical Cavities. Physical Review Applied, 2016, 6, .	3.8	10

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55	Selective wavelength conversion in a few-mode fiber. Optics Express, 2019, 27, 24072.	3.4	10
56	Harnessing the mode mixing in optical fiber-tip cavities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 085503.	1.5	9
57	Suppression of Gain Variation in a PSA-Based Phase Regenerator Using an Additional Harmonic. IEEE Photonics Technology Letters, 2014, 26, 2074-2077.	2.5	8
58	Nanomechanical Optical Fiber with Embedded Electrodes Actuated by Joule Heating. Materials, 2014, 7, 5591-5602.	2.9	7
59	Detailed study of four-wave mixing in Raman DFB fiber lasers. Optics Express, 2014, 22, 22917.	3.4	7
60	Design and Fabrication of Suspended Indium Phosphide Waveguides for MEMS-Actuated Optical Buffering. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 240-246.	2.9	7
61	Cavities with nonspherical mirrors for enhanced interaction between a quantum emitter and cavity photons. Physical Review A, 2022, 105, .	2.5	7
62	Amplified optomechanics in a unidirectional ring cavity. Journal of Modern Optics, 2011, 58, 1342-1348.	1.3	6
63	Polymer-coated compliant receivers for intact laser-induced forward transfer of thin films: experimental results and modelling. Applied Physics A: Materials Science and Processing, 2014, 116, 1939-1950.	2.3	6
64	Multichannel Wavelength Conversion of 40-Gb/s Nonreturn-to-Zero DPSK Signals in a Lead–Silicate Fiber. IEEE Photonics Technology Letters, 2010, 22, 1153-1155.	2.5	5
65	Laser-induced crystalline optical waveguide in glass fiber format. Optics Express, 2012, 20, B85.	3.4	5
66	A fiberized highly birefringent glass micrometer-size ridge waveguide. Optical Fiber Technology, 2015, 23, 137-144.	2.7	5
67	Tellurite Glass Fibers for Mid-infrared Nonlinear Applications. Springer Series in Materials Science, 2017, , 213-239.	0.6	5
68	Spatio-Temporal Self-Focusing in Femtosecond Pulse Transmission Through Multimode Optical Fibers. Journal of Lightwave Technology, 2012, 30, 2764-2769.	4.6	4
69	Fabrication of multiple parallel suspended-core optical fibers by sheet-stacking. Optical Fiber Technology, 2014, 20, 395-402.	2.7	4
70	Dual-Core Optical Fiber as Beam Splitter With Arbitrary, Tunable Polarization-Dependent Transfer Function. Journal of Lightwave Technology, 2017, 35, 4040-4046.	4.6	4
71	Novel Polarisation-assisted Phase Sensitive Optical Signal Processor Requiring Low Nonlinear Phase Shifts. , 2014, , .		4
72	Low-loss wavelength-selective integrated waveguide coupler based on tilted Bragg gratings. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1783.	2.1	4

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73	Hollow-core fiber Fabry–Perot interferometers with reduced sensitivity to temperature. Optics Letters, 2022, 47, 2510.	3.3	4
74	Optimization of flow path parameters for enhanced sensitivity lateral flow devices. Talanta, 2022, 248, 123579.	5.5	4
75	All-fiber fourth and fifth harmonic generation from a single source. Optics Express, 2016, 24, 21777.	3.4	3
76	Frequency-banded nonlinear SchrĶdinger equation with inclusion of Raman nonlinearity. Optics Express, 2018, 26, 21527.	3.4	3
77	All-fiber saturable absorber based on nonlinear multimode interference with enhanced modulation depth. Applied Optics, 2021, 60, 9007.	1.8	3
78	Evolutionary algorithm to design high-cooperativity optical cavities. New Journal of Physics, 2022, 24, 073028.	2.9	3
79	Optical Cooling of Atoms in Microtraps by Time-Delayed Reflection. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1747-1753.	0.4	2
80	Generation of ultra-high repetition rate pulses in a highly nonlinear dispersion-tailored compound glass fibre. , 2010, , .		2
81	Nanomechanical functionality of dual-core fibres. , 2013, , .		2
82	Electrostatic actuation of nanomechanical optical fibers with integrated electrodes. Proceedings of SPIE, 2014, , .	0.8	2
83	Electrical current-driven dual-core optical fiber with embedded metal electrodes. , 2014, , .		2
84	Signal Regeneration Techniques for Advanced Modulation Formats. , 2014, , .		2
85	Cascade simulations of unidirectional fiber optical parametric oscillators. , 2017, , .		2
86	Monolithically-integrated cytometer for measuring particle diameter in the extracellular vesicle size range using multi-angle scattering. Lab on A Chip, 2020, 20, 1267-1280.	6.0	2
87	Slow and stopped light in dynamic MoirÃ ${ m O}$ gratings. Physical Review A, 2021, 104, .	2.5	2
88	Flat, Broadband Supercontinuum Generation at Low Pulse Energies in a Dispersion-Tailored Lead-Silicate Fibre. , 2011, , .		2
89	Multichannel Wavelength Conversion of 40Gbit/s NRZ DPSK Signals in a Highly Nonlinear Dispersion Flattened Lead Silicate Fibre. , 2010, ,		2
90	Effects of pulse self-focusing on supercontinuum generation in multimode optical fibers. , 2009, , .		1

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91	Applications of highly nonlinear dispersion tailored lead silicate fibres for high speed optical communications. , 2010, , .		1
92	Design and fabrication of InP free-standing optical waveguides for MEMS. , 2014, , .		1
93	A Sheet-Stacking Technique for Making Multiple Air-Suspended-Core Optical Fibres. , 2013, , .		1
94	Efficiency and intensity noise of an all-fiber optical parametric oscillator. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 551.	2.1	1
95	Grating-induced slow-light enhancement of second-harmonic generation in periodically poled crystals. Physical Review A, 2022, 105, .	2.5	1
96	High-Power Supercontinuum generation with picosecond pulses. , 2010, , .		0
97	High-flux capillary based XUV source via the direct engineering of a laser induced ionization profile. , 2011, , .		0
98	Electrostatic control of dual-core optical fibre with NEMS functionality. , 2013, , .		0
99	Mechanical actuation of reconfigurable optical fibres. , 2014, , .		0
100	Development of Indium Phosphide MEMS for tunable optical buffering. , 2015, , .		0
101	Design and fabrication of indium phosphide air-bridge waveguides with MEMS functionality. Proceedings of SPIE, 2015, , .	0.8	0
102	Tunable optical buffer based on III-V MEMS design. , 2015, , .		0
103	Four-wave mixing UV generation in optical microfibers. , 2016, , .		0
104	Multi-Band Nonlinear SchrĶdinger Equation for Efficient Simulation of Parametric Optical Amplifiers and Oscillators. , 2018, , .		0
105	Tilted Bragg Gratings as an Efficient Platform for Integrated Multimode Interference Devices. , 2019, , .		0
106	4-by-4 Integrated Waveguide Coupler Based on Bi-Directional Propagation in Two Single-Mode Waveguides. IEEE Photonics Journal, 2021, 13, 1-14.	2.0	0
107	Designing Out-of-Plane Tilted Bragg Gratings for Arbitrary Beam Shaping. , 2021, , .		0

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#	Article	IF	CITATIONS
109	UV light generation in optical fibres. , 2016, , .		0