

HervÃ© Maillotte

List of Publications by Year in descending order

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143
papers

2,717
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186265

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144
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144
times ranked

1885
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable ultrafast infrared generation in a gas-filled hollow-core capillary by a four-wave mixing process. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 662.	2.1	4
2	Comparative analysis of stimulated Brillouin scattering at 2 μm in various infrared glass-based optical fibers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3792.	2.1	17
3	Spectral correlation of four-wave mixing generated in a photonic crystal fiber pumped by a chirped pulse. Optics Letters, 2020, 45, 4148.	3.3	9
4	Spectral Distributions of Chirped Pulsed Four-Wave Mixing in a Photonic Crystal Fiber Measured by Dispersive Fourier Transform Method. , 2020, , .		0
5	Tunable source of infrared pulses in gas-filled hollow core capillary. , 2020, , .		0
6	Parametric Gain Shaping From a Structured Pump Pulse. IEEE Photonics Technology Letters, 2019, 31, 214-217.	2.5	7
7	Towards athermal Brillouin strain sensing based on heavily germania-doped core optical fibers. APL Photonics, 2019, 4, .	5.7	14
8	Temporal Distribution Measurement of the Parametric Spectral Gain in a Photonic Crystal Fiber Pumped by a Chirped Pulse. Photonics, 2019, 6, 20.	2.0	8
9	Kerr Optical Frequency Combs Generated Around 2 μm in a Dual-Pumped Brillouin Fiber Ring Resonator. , 2019, , .		1
10	2 μm Brillouin laser based on infrared nonlinear glass fibers. Applied Optics, 2019, 58, 6365.	1.8	8
11	Large Brillouin gain in Germanium-doped core optical fibers up to a 98 $\%$ mol doping level. Optics Letters, 2018, 43, 4005.	3.3	23
12	Temperature and strain Brillouin sensing coefficients of heavily doped Germanium-core optical fibers. , 2018, , .		1
13	Stimulated Brillouin scattering in Germanium-doped-core optical fibers up to 98% mol doping level. , 2018, , .		0
14	Periodically poled LiNbO ₃ ridge waveguides on silicon for second-harmonic generation. Proceedings of SPIE, 2016, , .	0.8	2
15	New radio-frequency resonators based on periodically poled lithium niobate thin film and ridge structures. , 2016, , .		2
16	High efficiency frequency doubling in fully diced LiNbO ₃ ridge waveguides on silicon. Journal of Optics (United Kingdom), 2016, 18, 085503.	2.2	39
17	Multimode Brillouin scattering in a long tapered birefringent photonic crystal fiber. , 2015, , .		0
18	Analysis of ultra-compact waveguide modes in thin film lithium niobate. Applied Physics B: Lasers and Optics, 2015, 118, 261-267.	2.2	17

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19	Fast-beam self-trapping in LiNbO ₃ films by pyroelectric effect. Optics Letters, 2015, 40, 1258.	3.3	11
20	Reduction and control of stimulated Brillouin scattering in polymer-coated chalcogenide optical microwires. Optics Letters, 2014, 39, 482.	3.3	33
21	Stimulated Brillouin scattering in polymer-coated chalcogenide microfibers. , 2014, , .		0
22	Brillouin light scattering from surface acoustic waves in a subwavelength-diameter optical fibre. Nature Communications, 2014, 5, 5242.	12.8	142
23	Tunable stimulated Brillouin scattering in hybrid polymer-chalcogenide tapered fibers. , 2014, , .		4
24	Distributed Brillouin Fiber Sensor With Enhanced Sensitivity Based on Anti-Stokes Single-Sideband Suppressed-Carrier Modulation. IEEE Photonics Technology Letters, 2013, 25, 94-96.	2.5	8
25	Cascaded Raman slow light and optical spatial solitons in Kerr media. Physical Review A, 2013, 87, .	2.5	5
26	Observation of surface acoustic wave Brillouin scattering in optical microfibers. , 2013, , .		1
27	Stimulated Brillouin scattering in hybrid chalcogenide-PMMA microwires. , 2013, , .		2
28	Demonstration of polarization pulling using a fiber-optic parametric amplifier. Optics Express, 2012, 20, 27248.	3.4	28
29	Opto-acoustic coupling and Brillouin phenomena in microstructure optical fibers. , 2012, , .		0
30	Differential Phase-Shift-Keying Technique-Based Brillouin Echo-Distributed Sensing. IEEE Photonics Technology Letters, 2012, 24, 79-81.	2.5	15
31	Fiber optic Brillouin distributed sensing using phase-shift keying modulation techniques. , 2012, , .		3
32	Sensitivity enhancement in long-range distributed Brillouin fiber sensor using an anti-Stokes single-sideband probe and a bidirectional EDFA. , 2012, , .		3
33	SBS Mitigation in a Microstructured Optical Fiber by Periodically Varying the Core Diameter. IEEE Photonics Technology Letters, 2012, 24, 667-669.	2.5	12
34	Demonstration of polarization pulling in a fiber-optical parametric amplifier. , 2012, , .		0
35	Temperature coefficient of the high-frequency guided acoustic mode in a photonic crystal fiber. Applied Optics, 2011, 50, 6543.	2.1	17
36	Frequency-selective excitation of guided acoustic modes in a photonic crystal fiber. Optics Express, 2011, 19, 7689.	3.4	25

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37	Supercontinuum generation by nanosecond dual-pumping near the two zero-dispersion wavelengths of a photonic crystal fiber. <i>Optics Communications</i> , 2011, 284, 467-470.	2.1	14
38	Symmetry-breaking instability of quadratic soliton bound states. <i>Physical Review A</i> , 2011, 83, .	2.5	1
39	Suppression of SBS in a photonic crystal fiber with periodically-varied core diameter. , 2011, , .		2
40	Brillouin echo-distributed sensing based on differential phase-shift keying technique. , 2011, , .		0
41	All-fiber optical parametric amplifier at 1 μm using a microstructured fiber. , 2010, , .		0
42	Photonic crystal fiber mapping using Brillouin echoes distributed sensing. <i>Optics Express</i> , 2010, 18, 20136.	3.4	21
43	Demonstration of an All-Fiber Broadband Optical Parametric Amplifier at 1 μm . <i>Journal of Lightwave Technology</i> , 2010, 28, 2173-2178.	4.6	16
44	Effect of inhomogeneities on backward and forward Brillouin scattering in photonic crystal fibers. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
45	Observation of brillouin linewidth broadening and decay time in photonic crystal fiber. , 2010, , .		0
46	Experimental observation of Brillouin linewidth broadening and decay time in photonic crystal fiber. , 2010, , .		1
47	Guided Acoustic Wave Brillouin Scattering in a Nanostructure Core Fiber. , 2010, , .		0
48	Multicolor soliton and cascaded Raman generation in a nonlinear planar waveguide. , 2010, , .		0
49	Parametric amplification and wavelength conversion in the 1040-1090 nm band by use of a photonic crystal fiber. <i>Applied Physics Letters</i> , 2009, 94, 111104.	3.3	26
50	Role of microstructure on guided acoustic wave Brillouin scattering in photonic crystal fibers. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
51	Spatio-temporal dynamics of multicolor spatial Kerr solitons. <i>Optical and Quantum Electronics</i> , 2008, 40, 271-279.	3.3	2
52	Low-threshold all-fiber 1000nm supercontinuum source based on highly non-linear fiber. <i>Optics Communications</i> , 2008, 281, 4095-4098.	2.1	9
53	Supercontinuum Generation From 1.35 to 1.7 μm by Nanosecond Pumping Near the Second Zero-Dispersion Wavelength of a Microstructured Fiber. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 842-844.	2.5	21
54	Investigation of gain ripple in two-pump fiber optical parametric amplifiers. <i>Optics Letters</i> , 2008, 33, 2203.	3.3	13

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55	Demonstration of an Integrated LiNbO ₃ Synchronized Double Phase Modulator and Its Application to Dual-Pump Fiber Optical Parametric Amplifiers and Wavelength Converters. Journal of Lightwave Technology, 2008, 26, 777-781.	4.6	3
56	Impact of pump quality on the performances of fibre optical parametric amplifiers. , 2008, , .		1
57	Supercontinuum generation from 1350 to 1700 nm by nanosecond pumping near the second zero dispersion wavelength of a photonic crystal fiber. , 2008, , .		0
58	Gain oscillations in two-pump fiber optical parametric amplifiers. , 2008, , .		0
59	System Performances of Fiber Optical Parametric Amplifiers. Fiber and Integrated Optics, 2008, 27, 516-531.	2.5	1
60	Slow-Light Spatial Solitons. Physical Review Letters, 2008, 100, 013908.	7.8	24
61	Guided acoustic wave Brillouin scattering in photonic crystal fibers. Optics Letters, 2007, 32, 17.	3.3	82
62	Complete experimental characterization of stimulated Brillouin scattering in photonic crystal fiber. Optics Express, 2007, 15, 15517.	3.4	85
63	Brillouin Optical Time-Domain Analysis of Fiber-Optic Parametric Amplifiers. IEEE Photonics Technology Letters, 2007, 19, 179-181.	2.5	14
64	New Vapor Cell Technology for Chip Scale Atomic Clock. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	2
65	Vapour microcell for chip scale atomic frequency standard. Electronics Letters, 2007, 43, 279.	1.0	56
66	Simple methods for crosstalk reduction in fiber optical parametric amplifiers. Optics Communications, 2007, 275, 448-452.	2.1	9
67	Slow light induced by stimulated Raman scattering on spatial Kerr soliton. Annales De Physique, 2007, 32, 103-106.	0.2	1
68	Raman-induced slow light on spatial soliton in Kerr media. , 2007, , .		2
69	Brillouin Optical Time Domain Analysis of Fiber Optic Parametric Amplifiers. , 2006, , .		0
70	Simple Method for Crosstalk Reduction in Fiber Optical Parametric Amplifiers. , 2006, , .		2
71	Experimental Observation of Large Guided Acoustic Wave Brillouin Scattering in Photonic Crystal Fibres. , 2006, , .		2
72	Zero-dispersion wavelength mapping in short single-mode optical fibers using parametric amplification. IEEE Photonics Technology Letters, 2006, 18, 22-24.	2.5	31

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73	Supercontinuum generation using continuous-wave multiwavelength pumping and dispersion management. <i>Optics Letters</i> , 2006, 31, 2036.	3.3	35
74	Generation of multicolor vector Kerr solitons by cross-phase modulation, four-wave mixing, and stimulated Raman scattering. <i>Optics Letters</i> , 2006, 31, 3480.	3.3	17
75	Stability of spatial soliton arrays generated in a noninstantaneous Kerr medium from partially spatiotemporally coherent light. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1099.	2.1	0
76	Theoretical study of gain distortions in dual-pump fiber optical parametric amplifiers. <i>Optics Communications</i> , 2006, 267, 244-252.	2.1	14
77	Observation expérimentale d'un soliton spatial bicolore dans un milieu Kerr en présence de diffusion Raman stimulée. <i>European Physical Journal Special Topics</i> , 2006, 135, 309-310.	0.2	0
78	Numerical and experimental investigations of vector soliton bound-states in a Kerr planar waveguide. <i>Optics Communications</i> , 2005, 249, 285-291.	2.1	6
79	Wavelength, power and pulse duration influence on spatial soliton formation in AlGaAs. <i>Optics Communications</i> , 2005, 251, 186-193.	2.1	1
80	Experimental Observation of the Elliptically Polarized Fundamental Vector Soliton of Isotropic Kerr Media. , 2005, , FA4.		0
81	Annular aperture arrays: study in the visible region of the electromagnetic spectrum. <i>Optics Letters</i> , 2005, 30, 1611.	3.3	44
82	Large self-deflection of soliton beams in LiNbO ₃ . <i>Optics Letters</i> , 2005, 30, 1977.	3.3	43
83	Experimental observation of the elliptically polarized fundamental vector soliton of isotropic Kerr media. <i>Optics Letters</i> , 2005, 30, 3383.	3.3	26
84	Impact of pump phase modulation on system performance of fibre-optical parametric amplifiers. <i>Electronics Letters</i> , 2005, 41, 350.	1.0	21
85	Impact of pump OSNR on noise figure for fiber-optical parametric amplifiers. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1178-1180.	2.5	49
86	Phononic band-gap guidance of acoustic modes in photonic crystal fibers. <i>Physical Review B</i> , 2005, 71, .	3.2	80
87	Complex waveguide trajectory induced by spatial soliton in LiNbO ₃ . , 2005, , .		0
88	Continuum generation in a dispersion-shifted fiber using one or two continuous-wave Raman fiber lasers. , 2005, , .		0
89	Self-formation of multiple spatial photovoltaic solitons. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S223-S230.	1.4	32
90	Quantum fluctuations and correlations of spatial scalar or multimode vector solitons in Kerr media. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S295-S302.	1.4	15

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91	Impact of Pump Phase Modulation on the Gain of Fiber Optical Parametric Amplifier. IEEE Photonics Technology Letters, 2004, 16, 1289-1291.	2.5	65
92	The generation of spatial soliton arrays in a planar Kerr waveguide from seeded spontaneous parametric down conversion. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S250-S258.	1.4	4
93	Spectral broadening of a partially coherent CW laser beam in single-mode optical fibers. Optics Express, 2004, 12, 2838.	3.4	132
94	Influence of the phase modulation of the pump wave in fiber optical parametric amplifiers. , 2004, , .		0
95	Quantum fluctuations and correlations of multimode vector solitons in Kerr media. , 2004, , .		0
96	Numerical and experimental investigations of vector soliton bound-states in a Kerr planar waveguide. , 2004, , .		0
97	Generation of a broadband single-mode supercontinuum in a conventional dispersion-shifted fiber by use of a subnanosecond microchip laser. Optics Letters, 2003, 28, 1820.	3.3	68
98	Broadband and flat parametric amplifiers with a multisection dispersion-tailored nonlinear fiber arrangement. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1532.	2.1	66
99	Formation of reconfigurable singlemode channel waveguides in LiNbO3 using spatial solitons. Electronics Letters, 2003, 39, 286.	1.0	14
100	Impact of the longitudinal variations of the chromatic dispersion on the gain of fiber parametric amplifiers. , 2003, , .		4
101	Temporal analysis of dark spatial photovoltaic solitons.. , 2003, , .		0
102	Symmetry-Breaking Instability of Multimode Vector Solitons. Physical Review Letters, 2002, 89, 083901.	7.8	75
103	6, 6,6-distyryl-3, 3-bipyridine derivatives: a novel class of tunable chromophores for second-and third-order nonlinear optical applications. Journal of Optics, 2002, 4, S212-S220.	1.5	8
104	Spatiotemporal behavior of periodic arrays of spatial solitons in a planar waveguide with relaxing Kerr nonlinearity. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 574.	2.1	52
105	Supercontinuum generation in air-silica microstructured fibers with nanosecond and femtosecond pulse pumping. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 765.	2.1	362
106	Spatiotemporal dynamics of soliton arrays generated from spatial noise in a planar waveguide with relaxing Kerr nonlinearity. Optics Express, 2002, 10, 942.	3.4	15
107	Transmission through a nonlinear thin layer near the critical angle of incidence: application to the sensitive determination of the nonlinear refractive index. Journal of Optics, 2002, 4, 303-308.	1.5	2
108	Symmetric and Asymmetric Conjugated 3,3-Bipyridine Derivatives as a New Class of Third-Order NLO Chromophores with an Enhanced Non-resonant, Nonlinear Refractive Index in the Picosecond Range. Advanced Functional Materials, 2002, 12, 203.	14.9	26

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109	2-Pyridones as a New Photochemically Stable Structural Design for the Off-Resonant Optical Kerr Effect. <i>Advanced Functional Materials</i> , 2002, 12, 339.	14.9	5
110	Symmetry-breaking instability of multimode vector solitons in Kerr media. , 2002, , .		0
111	Single-mode supercontinuum generation in a standard dispersion-shifted fiber using a nanosecond microchip laser. , 2002, , .		1
112	Transient dark photovoltaic spatial solitons and induced guiding in slab LiNbO ₃ waveguides. <i>Optics Letters</i> , 2001, 26, 1344.	3.3	31
113	Compact broadband continuum source based on microchip laser pumped microstructured fibre. <i>Electronics Letters</i> , 2001, 37, 558.	1.0	72
114	Pump-power-dependent gain for small-signal parametric amplification in birefringent fibres. <i>Optics Communications</i> , 2001, 191, 245-251.	2.1	3
115	Raman-assisted three-wave mixing of non-phase-matched waves in optical fibres: application to wide-range frequency conversion. <i>Optics Communications</i> , 2001, 192, 107-121.	2.1	8
116	Non-Recurrent Periodic Arrays of Spatial Solitons in a Planar Kerr Waveguide. , 2001, , 99-102.		0
117	Enhancement of non-resonant non-linear refractive index with reduction of absorption in push-pull molecules by reduction of their donor group strength. <i>Chemical Physics Letters</i> , 2000, 319, 669-673.	2.6	9
118	Wavelength conversion from 1.3 μm to 1.5 μm in single-mode optical fibres using Raman-assisted three-wave mixing. <i>Journal of Optics</i> , 2000, 2, 132-141.	1.5	4
119	Suppression of stimulated Raman scattering in optical fibres by power-controlled multifrequency pumping. <i>Optics Communications</i> , 1999, 159, 32-36.	2.1	3
120	Synthesis and characterisation of an octupolar polymer and new molecular octupoles with off-resonant third order optical nonlinearities. <i>Chemical Communications</i> , 1999, , 2083-2084.	4.1	52
121	Demonstration of stimulated-Raman-scattering suppression in optical fibers in a multifrequency pumping configuration. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 757.	2.1	10
122	Generation of vector dark-soliton trains by induced modulational instability in a highly birefringent fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1642.	2.1	30
123	Raman-assisted parametric frequency conversion in a normally dispersive single-mode fiber. <i>Optics Letters</i> , 1999, 24, 1561.	3.3	51
124	<title>Total profile distortion Z-scan</title>. , 1999, 3572, 218.		0
125	Measurement of nonlinear refraction index and two-photon absorption in a novel organometallic compound. <i>Optics Communications</i> , 1998, 152, 77-82.	2.1	42
126	<title>Modification of push-pull molecules and polymers for higher nonlinear refraction and lower linear and nonlinear absorptions</title>. , 1998, , .		0

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127	Stimulated Raman suppression under dual-frequency pumping in singlemode fibres. Electronics Letters, 1998, 34, 1417.	1.0	6
128	Combined Spectral Effects of Pulse Walk-Off and Degenerate Cross-Phase Modulation in Birefringent Fibers. Journal of Nonlinear Optical Physics and Materials, 1997, 06, 313-320.	1.8	3
129	New Third-Order Nonlinear Polymers Functionalized with Disperse Red and Disperse Orange Chromophores with Increased Stability. Chemistry of Materials, 1997, 9, 2921-2927.	6.7	43
130	Phase matching for parametric amplification in a single-mode birefringent fiber: influence of the non-phase-matched waves. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 116.	2.1	26
131	Sensitivity of the total beam profile distortion Z-scan for the measurement of nonlinear refraction. Optics Communications, 1997, 134, 529-536.	2.1	17
132	Picosecond nonlinear refraction measurement in single-beam open Z scan by charge-coupled device image processing. Optics Letters, 1996, 21, 101.	3.3	40
133	<title>Determination of the nonlinear refraction through the measurement of light wavefront distortions</title>. , 1996, , .		0
134	IMAGING THROUGH SCATTERING MEDIA BY PARAMETRIC IMAGE AMPLIFICATION. Journal of Nonlinear Optical Physics and Materials, 1996, 05, 413-417.	1.8	5
135	Coherent picosecond parametric amplification through a Kerr-induced index grating in a single-mode fiber. Optics Communications, 1994, 112, 75-79.	2.1	6
136	Laser beam self-splitting into solitons by optical Kerr nonlinearity. Optics Communications, 1994, 109, 265-271.	2.1	24
137	Self-induced multiple soliton-like beams by stimulated scattering. Optics Communications, 1994, 109, 272-278.	2.1	2
138	Spontaneous creation of soliton-like beams by single-directional control of self-focusing and stimulated scattering in a Kerr medium. , 1994, , .		0
139	A Single Rod Stable Resonator of Constant Multimode Divergence over a Wide Power Range. Journal of Modern Optics, 1991, 38, 2311-2321.	1.3	0
140	Distributed feedback picosecond Raman laser emission from CS ₂ . Optics Communications, 1990, 79, 259-266.	2.1	4
141	Noise-free phase conjugation of high power single mode laser beams by stimulated Brillouin scattering. Optics Communications, 1990, 77, 241-246.	2.1	6
142	Application of intermodal interference to fibre sensors. Optics Communications, 1986, 60, 261-264.	2.1	29
143	Broadband and nearly flat parametric gain in single-mode fibers. , 0, , .		5