

Camille-Sophie BrÃ's

List of Publications by Year in descending order

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85
papers

2,190
citations

236925

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docs citations

86
times ranked

1644
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid-infrared frequency comb via coherent dispersive wave generation in silicon nitride nanophotonic waveguides. <i>Nature Photonics</i> , 2018, 12, 330-335.	31.4	201
2	Spatial Equalization of Zero-Dispersion Wavelength Profiles in Nonlinear Fibers. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1807-1809.	2.5	189
3	Mid infrared gas spectroscopy using efficient fiber laser driven photonic chip-based supercontinuum. <i>Nature Communications</i> , 2019, 10, 1553.	12.8	133
4	Wavelength Multicasting of 320-Gb/s Channel in Self-Seeded Parametric Amplifier. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1002-1004.	2.5	111
5	Multiple-Wavelength Optical Orthogonal Codes Under Prime-Sequence Permutations for Optical CDMA. <i>IEEE Transactions on Communications</i> , 2005, 53, 117-123.	7.8	94
6	Large second harmonic generation enhancement in Si ₃ N ₄ waveguides by all-optically induced quasi-phase-matching. <i>Nature Communications</i> , 2017, 8, 1016.	12.8	85
7	Multicast Parametric Synchronous Sampling of 320-Gb/s Return-to-Zero Signal. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1612-1614.	2.5	70
8	Transmission of 640-Gb/s RZ-OOK Channel Over 100-km SSMF by Wavelength-Transparent Conjugation. <i>Journal of Lightwave Technology</i> , 2011, 29, 516-523.	4.6	70
9	Bandwidth-efficient phase modulation techniques for Stimulated Brillouin Scattering suppression in fiber optic parametric amplifiers. <i>Optics Express</i> , 2010, 18, 18138.	3.4	65
10	Parametric Photonic Channelized RF Receiver. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 344-346.	2.5	57
11	Isolator-free unidirectional thulium-doped fiber laser. <i>Light: Science and Applications</i> , 2015, 4, e340-e340.	16.6	46
12	Optically reconfigurable quasi-phase-matching in silicon nitride microresonators. <i>Nature Photonics</i> , 2022, 16, 134-141.	31.4	46
13	730-nm optical parametric conversion from near- to short-wave infrared band. <i>Optics Express</i> , 2008, 16, 5435.	3.4	43
14	Optical Demultiplexing of 320 Gb/s to 80 Gb/s in Single Parametric Gate. <i>Journal of Lightwave Technology</i> , 2010, 28, 434-442.	4.6	43
15	Reconfigurable parametric channelized receiver for instantaneous spectral analysis. <i>Optics Express</i> , 2011, 19, 3531.	3.4	43
16	Nanophotonic supercontinuum-based mid-infrared dual-comb spectroscopy. <i>Optica</i> , 2020, 7, 1181.	9.3	43
17	Scalable asynchronous incoherent optical CDMA [Invited]. <i>Journal of Optical Networking</i> , 2007, 6, 599.	2.5	42
18	Demonstration of an eight-user 115-Gchip/s incoherent OCDMA system using supercontinuum generation and optical time gating. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 889-891.	2.5	40

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19	Reconfigurable radiofrequency filters based on versatile soliton microcombs. <i>Nature Communications</i> , 2020, 11, 4377.	12.8	38
20	Linearly chirped mid-infrared supercontinuum in all-normal-dispersion chalcogenide photonic crystal fibers. <i>Optics Express</i> , 2018, 26, 19627.	3.4	35
21	On the Experimental Characterization of Beat Noise in 2-D Time-Spreading Wavelength-Hopping OCDMA Systems. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2314-2316.	2.5	34
22	Code-Empowered Lightwave Networks. <i>Journal of Lightwave Technology</i> , 2007, 25, 2911-2921.	4.6	32
23	Scalable Multicasting in One-Pump Parametric Amplifier. <i>Journal of Lightwave Technology</i> , 2009, 27, 356-363.	4.6	32
24	Mid-infrared continuous-wave parametric amplification in chalcogenide microstructured fibers. <i>Optica</i> , 2017, 4, 643.	9.3	28
25	Design and demonstration of a novel optical CDMA platform for use in avionics applications. <i>Optics Communications</i> , 2007, 271, 65-70.	2.1	26
26	Multicast Parametric Synchronous Sampling. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1222-1224.	2.5	26
27	Pedestal-Free Pulse Source for High Data Rate Optical Time-Division Multiplexing Based on Fiber-Optical Parametric Processes. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1325-1330.	1.9	26
28	Parallel gas spectroscopy using mid-infrared supercontinuum from a single Si_3N_4 waveguide. <i>Optics Letters</i> , 2020, 45, 2195.	3.3	26
29	Near-Nyquist optical pulse generation with fiber optical parametric amplification. <i>Optics Express</i> , 2012, 20, B558.	3.4	25
30	Characterization and modeling of microstructured chalcogenide fibers for efficient mid-infrared wavelength conversion. <i>Optics Express</i> , 2016, 24, 9741.	3.4	23
31	Low Distortion Multicasting of an Analog Signal by Self-Seeded Parametric Mixer. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 332-334.	2.5	22
32	All-optical OCDMA code-drop unit for transparent ring networks. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1088-1090.	2.5	21
33	Novel Multicode-Processing Platform for Wavelength-Hopping Time-Spreading Optical CDMA: A Path to Device Miniaturization and Enhanced Network Functionality. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 1471-1479.	2.9	21
34	Continuous-wave four-wave mixing in cm-long Chalcogenide microstructured fiber. <i>Optics Express</i> , 2011, 19, B621.	3.4	21
35	Formation Rules and Dynamics of Photoinduced $\Gamma(2)$ Gratings in Silicon Nitride Waveguides. <i>ACS Photonics</i> , 2020, 7, 147-153.	6.6	21
36	Second- and third-order nonlinear wavelength conversion in an all-optically poled Si_3N_4 waveguide. <i>Optics Letters</i> , 2019, 44, 106.	3.3	20

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37	105-ns Continuously Tunable Delay of 10-Gb/s Optical Signal. IEEE Photonics Technology Letters, 2008, 20, 1187-1189.	2.5	19
38	High-power parametric conversion from near-infrared to short-wave infrared. Optics Express, 2014, 22, 14341.	3.4	16
39	Bandwidth and repetition rate programmable Nyquist sinc-shaped pulse train source based on intensity modulators and four-wave mixing. Optics Letters, 2014, 39, 6668.	3.3	16
40	Highly tunable second-harmonic generation in all-optically poled silicon nitride waveguides. Optics Letters, 2020, 45, 1958.	3.3	16
41	Wideband generation of pulses in dual-pump optical parametric amplifier: theory and experiment. Optics Express, 2014, 22, 4606.	3.4	13
42	Fiber fuse in chalcogenide photonic crystal fibers. Optics Letters, 2018, 43, 1443.	3.3	13
43	Extreme polarization-dependent supercontinuum generation in an uncladded silicon nitride waveguide. Optics Express, 2021, 29, 21348.	3.4	13
44	Translation of Gbps Phase-Modulated Optical Signal From Near-Infrared to Visible Band. Journal of Lightwave Technology, 2008, 26, 131-137.	4.6	11
45	Performance of Self-Seeded Parametric Multicasting of Analog Signals. IEEE Photonics Technology Letters, 2011, 23, 1570-1572.	2.5	11
46	Experimental investigation of pulse generation with one-pump fiber optical parametric amplification. Optics Express, 2012, 20, 27344.	3.4	11
47	Talbot effect on orbital angular momentum beams: azimuthal intensity repetition-rate multiplication. Optics Letters, 2018, 43, 4033.	3.3	11
48	640-Gb/s Transmitter and Self-Trackable Demultiplexing Receiver Using Single Parametric Gate. IEEE Photonics Technology Letters, 2011, 23, 507-509.	2.5	10
49	Broadband quasi-phase-matching in dispersion-engineered all-optically poled silicon nitride waveguides. Photonics Research, 2020, 8, 1475.	7.0	10
50	Optical pulse position modulation processing: architecture and demonstration in an optical code division multiple access system. Journal of Optical Networking, 2006, 5, 915.	2.5	9
51	Kerr nonlinearity and dispersion characterization of core-pumped thulium-doped fiber at $\lambda = 1.4 \mu\text{m}$. Optics Letters, 2016, 41, 3173.	3.3	9
52	Demonstration of a transparent router for wavelength-hopping time-spreading optical CDMA. Optics Communications, 2005, 254, 58-66.	2.1	8
53	Sampling of Multiple 320-Gb/s Channels by Single Parametric Gate. IEEE Photonics Technology Letters, 2009, 21, 796-798.	2.5	7
54	Broadly tunable source around 2050 nm based on wideband parametric conversion and thulium-holmium amplification cascade. Optics Express, 2014, 22, 26635.	3.4	7

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55	Difference-frequency generation in optically poled silicon nitride waveguides. <i>Nanophotonics</i> , 2021, 10, 1923-1930.	6.0	7
56	Spectral self-imaging of optical orbital angular momentum modes. <i>APL Photonics</i> , 2021, 6, .	5.7	7
57	Polarization selective ultra-broadband wavelength conversion in silicon nitride waveguides. <i>Optics Express</i> , 2022, 30, 4342.	3.4	7
58	Near perfect two-photon interference out of a down-converter on a silicon photonic chip. <i>Optics Express</i> , 2022, 30, 11298.	3.4	7
59	1-to-40 10-Gb/s Channel Multicasting and Amplification in Wideband Parametric Amplifier. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1417-1419.	2.5	6
60	Arbitrarily high time bandwidth performance in a nonreciprocal optical resonator with broken time invariance. <i>Scientific Reports</i> , 2020, 10, 15752.	3.3	6
61	Interferometric noise characterization of a 2-D time-spreading wavelength-hopping OCDMA network using FBG encoding and decoding. <i>Journal of Optical Networking</i> , 2007, 6, 663.	2.5	5
62	Temporal Talbot effect of optical dark pulse trains. <i>Optics Letters</i> , 2022, 47, 953.	3.3	5
63	Performance of Instantaneous Microwave Analysis by Parametric Channelized Receiver Through Time Domain Monitoring. <i>Journal of Lightwave Technology</i> , 2012, 30, 3192-3198.	4.6	4
64	Power evolution along phase-sensitive parametric amplifiers: an experimental survey. <i>Optics Letters</i> , 2014, 39, 6114.	3.3	4
65	Wavelength-stabilized tunable mode-locked thulium-doped fiber laser beyond 2 μm . <i>Optics Letters</i> , 2022, 47, 2085.	3.3	4
66	With a fine-tooth comb. <i>Nature Physics</i> , 2020, 16, 600-600.	16.7	3
67	Unconventional time-bandwidth performance of resonant cavities with nonreciprocal coupling. <i>Physical Review A</i> , 2021, 103, .	2.5	3
68	Unidirectional all-fiber thulium-doped laser based on theta cavity and fiber Bragg grating as filtering element. , 2016, , .		3
69	Versatile High Repetition Rate 2- μm Pulsed Source Based on Wideband Parametric Conversion. <i>Journal of Lightwave Technology</i> , 2016, 34, 879-884.	4.6	2
70	Investigation of temporal Talbot operation in a conventional optical tapped delay line structure. <i>Optics Express</i> , 2019, 27, 7922.	3.4	2
71	Sensitive and Accurate Dispersion Map Extraction of HNLFs by Frequency Tuning of a Degenerate FWM. <i>Journal of Lightwave Technology</i> , 2016, 34, 4197-4204.	4.6	1
72	Experimental and theoretical investigation of the operating principles of the Figure-9 laser. , 2018, , .		1

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73	Tunable 2D time-wavelength optical CDMA encoder for differentiated service provisioning. Optics Communications, 2007, 271, 116-118.	2.1	0
74	Nanophotonic Supercontinuum Based Mid-Infrared Dual-Comb Spectroscopy. , 2020, , .		0
75	Extreme polarization dependent infrared supercontinuum generation in uncladded silicon nitride waveguide. , 2021, , .		0
76	Difference-frequency generation in silicon nitride waveguides based on all-optical poling. , 2021, , .		0
77	Second order nonlinearity in Silicon Nitride waveguides via photo-induced self-organized gratings. , 2021, , .		0
78	Seeded Multimode Quasi-Phase-Matching in All-Optically Poled Silicon Nitride Waveguides. , 2021, , .		0
79	Kerr nonlinearity of Thulium-doped fiber near $2\lambda/4m$. , 2015, , .		0
80	Pushing performances of nonlinear optics in silicon nitride waveguides. , 2018, , .		0
81	Optical poling of silicon nitride waveguides for enhanced effective $\chi^{(2)}$. , 2019, , .		0
82	Multi-gas spectroscopy using tailored mid-IR dispersive wave generated in Si ₃ N ₄ waveguide. , 2020, , .		0
83	Tailored on-chip mid-IR light generation and application for gas spectroscopy. , 2021, , .		0
84	Broadband Quasi-Phase-Matching in All-Optically Poled Stoichiometric Silicon Nitride Waveguides. , 2020, , .		0
85	160-Gb/s optical time division multiplexing and multicasting in parametric amplifiers. Optics Express, 2008, 16, 16609-15.	3.4	0