Birgit Stiller

List of Publications by Year
in descending order

55	1,110	586496	511568
papers	citations	16 h-index	30 g-index

56	56	56	1528
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Picosecond acoustic dynamics in stimulated Brillouin scattering. Optics Letters, 2021, 46, 2972.	1.7	4
2	Coherently refreshing hypersonic phonons for light storage. Optica, 2020, 7, 492.	4.8	32
3	On-chip broadband nonreciprocal light storage. Nanophotonics, 2020, 10, 75-82.	2.9	17
4	Cross talk-free coherent multi-wavelength Brillouin interaction. APL Photonics, 2019, 4, .	3.0	15
5	Optoacousticsâ€"Advances in high-frequency optomechanics and Brillouin scattering. APL Photonics, 2019, 4, 110401.	3.0	3
6	On-chip correlation-based Brillouin sensing: design, experiment, and simulation. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 146.	0.9	23
7	Non-reciprocal delay based on photon-phonon interactions on a chip. , 2019, , .		0
8	Highly localized distributed Brillouin scattering response in a photonic integrated circuit. APL Photonics, 2018, 3, .	3.0	22
9	High Resolution Brillouin Sensing of Micro-Scale Structures. Applied Sciences (Switzerland), 2018, 8, 2572.	1.3	6
10	Coherent photonic-phononic interactions in integrated circuits. , 2018, , .		0
11	Advanced Functions for Signal Processing and Sensing Harnessing On-Chip SBS. , 2018, , .		1
12	On-chip multi-stage optical delay based on cascaded Brillouin light storage. Optics Letters, 2018, 43, 4321.	1.7	5
13	Brillouin spectroscopy of a hybrid silicon-chalcogenide waveguide with geometrical variations. Optics Letters, 2018, 43, 3493.	1.7	13
14	On-chip coherent photonic-phononic memory. , 2018, , .		0
15	Distributed SBS Sensing in a Silicon-Chalcogenide Platform. , 2018, , .		0
16	Short-scale photon-phonon interactions. , 2018, , .		0
17	A chip-integrated coherent photonic-phononic memory. Nature Communications, 2017, 8, 574.	5.8	110
18	Chalcogenide optical waveguides with extremely high stimulated Brillouin scattering gain for integrated devices. , 2017, , .		0

#	Article	IF	Citations
19	A chip-integrated Brillouin-based optical memory. , 2017, , .		0
20	Simultaneous opto-acoustic light storage at multiple frequency channels. , 2017, , .		0
21	Simultaneous opto-acoustic light storage at multiple frequency channels. , 2017, , .		1
22	Quantum-limited measurements of optical signals from a geostationary satellite. Optica, 2017, 4, 611.	4.8	105
23	Cascaded waveguide-based photon-phonon memory. , 2017, , .		0
24	Quantum-limited measurements of optical signals from a satellite in geostationary earth orbit. , 2017, , .		0
25	On-chip non-reciprocal light storage. , 2017, , .		1
26	Localized high resolution Brillouin spectrum measurement of a photonic integrated circuit. , 2017, , .		0
27	Distributed Brillouin Scattering Measurement with Sub-mm Spatial Resolution. , 2017, , .		1
28	Single sideband microwave to optical photon conversion â€“ an electro-optic realization. , 2017, , .		0
29	Widely tunable, low phase noise microwave source based on a photonic chip. Optics Letters, 2016, 41, 4633.	1.7	84
30	Efficient microwave to optical photon conversion: an electro-optical realization. Optica, 2016, 3, 597.	4.8	174
31	Attacks on practical quantum key distribution systems (and how to prevent them). Contemporary Physics, 2016, 57, 366-387.	0.8	63
32	An on-chip multi-wavelength photonic-phononic memory. , 2016, , .		1
33	Efficient single sideband microwave to optical conversion using a LiNbO3 WGM-resonator. , 2016, , .		0
34	Satellite Quantum Communication via the Alphasat Laser Communication Terminal - Quantum Signals from 36 thousand kilometers above Earth. , 2015, , .		10
35	Depolarized guided acoustic wave Brillouin scattering in hollow-core photonic crystal fibers. Optics Express, 2015, 23, 27707.	1.7	14
36	Classically entangled optical beams for high-speed kinematic sensing. Optica, 2015, 2, 864.	4.8	131

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37	Quantum hacking of continuous-variable quantum key distribution systems: realtime Trojan-horse attacks. , 2015, , .		2
38	Risk Analysis of Trojan-Horse Attacks on Practical Quantum Key Distribution Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 168-177.	1.9	86
39	Phase regeneration of a star-8QAM signal in a phase-sensitive amplifier with conjugated pumps. Optics Express, 2014, 22, 1028.	1.7	24
40	All-optical signal regeneration of advanced modulation formats. , 2014, , .		2
41	Distributed Brillouin Fiber Sensor With Enhanced Sensitivity Based on Anti-Stokes Single-Sideband Suppressed-Carrier Modulation. IEEE Photonics Technology Letters, 2013, 25, 94-96.	1.3	8
42	Observation of acoustically induced modulation instability in a Brillouin photonic crystal fiber laser. Optics Letters, 2013, 38, 1570.	1.7	6
43	Capteur Brillouin rÃ©parti Ã fibre optique Ã haute rÃ©solution et longue portÃ©e. Instrumentation Mesure Metrologie, 2013, 13, 31-45.	0.2	0
44	Demonstration of polarization pulling using a fiber-optic parametric amplifier. Optics Express, 2012, 20, 27248.	1.7	28
45	Black-light continuum generation in a silica-core photonic crystal fiber. Optics Letters, 2012, 37, 130.	1.7	19
46	Opto-acoustic coupling and Brillouin phenomena in microstructure optical fibers. , 2012, , .		0
47	Differential Phase-Shift-Keying Technique-Based Brillouin Echo-Distributed Sensing. IEEE Photonics Technology Letters, 2012, 24, 79-81.	1.3	15
48	Fiber optic Brillouin distributed sensing using phase-shift keying modulation techniques. , 2012, , .		3
49	SBS Mitigation in a Microstructured Optical Fiber by Periodically Varying the Core Diameter. IEEE Photonics Technology Letters, 2012, 24, 667-669.	1.3	12
50	Temperature coefficient of the high-frequency guided acoustic mode in a photonic crystal fiber. Applied Optics, 2011, 50, 6543.	2.1	17
51	Frequency-selective excitation of guided acoustic modes in a photonic crystal fiber. Optics Express, 2011, 19, 7689.	1.7	25
52	Suppression of SBS in a photonic crystal fiber with periodically-varied core diameter. , 2011, , .		2
53	Brillouin echo-distributed sensing based on differential phase-shift keying technique. , 2011, , .		0
54	Photonic crystal fiber mapping using Brillouin echoes distributed sensing. Optics Express, 2010, 18, 20136.	1.7	21

#	Article	IF	Citations
55	Effect of inhomogeneities on backward and forward Brillouin scattering in photonic crystal fibers. Proceedings of SPIE, 2010, , .	0.8	1