

# Serge Bielawski

## List of Publications by Year in descending order

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40  
papers

1,387  
citations

516710

16  
h-index

454955

30  
g-index

40  
all docs

40  
docs citations

40  
times ranked

932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Diversity Electro-optic Sampling: A new approach to single-shot terahertz waveform recording. Light: Science and Applications, 2022, 11, 14.	16.6	27
2	Terabit sampling system with photonic time-stretch analog-to-digital converter. , 2022, , .		1
3	Control of undulator radiation using a Laser Plasma Acceleration Source. Journal of Physics: Conference Series, 2020, 1596, 012045.	0.4	0
4	Progress towards laser plasma based free electron laser on COXINEL. Journal of Physics: Conference Series, 2020, 1596, 012040.	0.4	0
5	From self-organization in relativistic electron bunches to coherent synchrotron light: observation using a photonic time-stretch digitizer. Scientific Reports, 2019, 9, 10391.	3.3	8
6	Single-shot Measurement of THz pulses with sub-picosecond resolution and Megahertz acquisition rates. , 2019, , .		0
7	Ultra-fast detector for wide range spectral measurements. , 2019, , .		1
8	Ultrafast linear array detector for real-time imaging. , 2019, , .		0
9	Single-shot measurement of phase and amplitude by using a heterodyne time-lens system and ultrafast digital time-holography. Nature Photonics, 2018, 12, 228-234.	31.4	126
10	Single-shot observation of optical rogue waves in integrable turbulence using time microscopy. , 2017, , .		1
11	Unveiling relativistic electron bunch microstructures and their dynamical evolutions, using photonic time-stretch. Proceedings of SPIE, 2017, , .	0.8	0
12	Unveiling the complex shapes of relativistic electrons bunches, using photonic time-stretch electro-optic sampling. , 2016, , .		3
13	Single-shot observation of optical rogue waves in integrable turbulence using time microscopy. Nature Communications, 2016, 7, 13136.	12.8	186
14	Observation of shot-to-shot spectral amplitude and phase reorganization in a fs-pulse pumped photonic crystal fiber ring cavity at 80 MHz. , 2016, , .		0
15	Investigation of the Electrical Field Sensitivity of Sub- $\frac{1}{4}$ $\mu\text{m}$ Yâ€“Baâ€“Cuâ€“O Detectors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	10
16	High-Speed Yâ€“Baâ€“Cuâ€“O Direct Detection System for Monitoring Picosecond THz Pulses. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 81-86.	3.1	10
17	Suppression of self-pulsing instabilities in free-electron lasers using delayed optical feedback. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	1
18	Pulse Splitting in Short Wavelength Seeded Free Electron Lasers. Physical Review Letters, 2009, 103, 264801.	7.8	36

#	ARTICLE	IF	CITATIONS
19	Cooperative Oscillation of Nondegenerate Transverse Modes in an Optical System: Multimode Operation in Parametric Oscillators. <i>Physical Review Letters</i> , 2009, 102, 183901.	7.8	2
20	Tunable narrowband terahertz emission from mastered laser–electron beam interaction. <i>Nature Physics</i> , 2008, 4, 390-393.	16.7	89
21	The Q-switching instability in passively mode-locked lasers. <i>Physica D: Nonlinear Phenomena</i> , 2006, 219, 13-21.	2.8	30
22	Self-starting of feedback control in lasers with a tendency to Q-switch. <i>Optics Communications</i> , 2003, 220, 171-177.	2.1	6
23	Optical time division multiplexing: a powerful technique for experimental investigations of spatiotemporal dynamics. <i>Optics Communications</i> , 2003, 223, 181-185.	2.1	3
24	Incompatibility of cavity resonances with wave-vector matching: influence on threshold and beam structures of optical parametric oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 395.	2.1	5
25	Suppression of Q-switch instabilities by feedback control in passively mode-locked lasers. <i>Optics Letters</i> , 2001, 26, 692.	3.3	20
26	Periodic mode hopping induced by thermo-optic effects in continuous-wave optical parametric oscillators. <i>Optics Letters</i> , 2001, 26, 1415.	3.3	9
27	Eckhaus instability induced by nonuniformities in a laser. <i>Physical Review A</i> , 2001, 64, .	2.5	9
28	Fast oscillations in an optical parametric oscillator. <i>Optics Communications</i> , 2001, 200, 369-379.	2.1	8
29	Self-pulsing instabilities in an optical parametric oscillator: Experimental observation and modeling of the mechanism. <i>Physical Review A</i> , 2000, 61, .	2.5	25
30	Acoustical and optical branches in the spectral waves of a laser. <i>Physical Review A</i> , 1998, 57, 3022-3027.	2.5	4
31	Faraday Instability in a Multimode Laser. <i>Physical Review Letters</i> , 1998, 80, 3968-3971.	7.8	19
32	Horseshoe templates with global torsion in a driven laser. <i>Physical Review E</i> , 1997, 55, 5082-5091.	2.1	32
33	Experimental observation of a chaotic attractor with a reverse horseshoe topological structure. <i>Physical Review E</i> , 1997, 55, R3801-R3804.	2.1	18
34	Propagation of Waves in the Spectrum of a Multimode Laser. <i>Physical Review Letters</i> , 1996, 77, 4540-4543.	7.8	11
35	Controlling unstable periodic orbits by a delayed continuous feedback. <i>Physical Review E</i> , 1994, 49, R971-R974.	2.1	191
36	Stabilization and characterization of unstable steady states in a laser. <i>Physical Review A</i> , 1993, 47, 3276-3279.	2.5	118

#	ARTICLE	IF	CITATIONS
37	Experimental characterization of unstable periodic orbits by controlling chaos. Physical Review A, 1993, 47, R2492-R2495.	2.5	108
38	<title>Control of laser chaos</title>. Proceedings of SPIE, 1993, , .	0.8	2
39	Alternate time scale in multimode lasers. Physical Review A, 1992, 46, 1692-1695.	2.5	108
40	Antiphase dynamics and polarization effects in the Nd-doped fiber laser. Physical Review A, 1992, 46, 2811-2822.	2.5	160