

Serge Bielawski

List of Publications by Year in descending order

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Version: 2024-02-01

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	Controlling unstable periodic orbits by a delayed continuous feedback. <i>Physical Review E</i> , 1994, 49, R971-R974.	2.1	191
2	Single-shot observation of optical rogue waves in integrable turbulence using time microscopy. <i>Nature Communications</i> , 2016, 7, 13136.	12.8	186
3	Antiphase dynamics and polarization effects in the Nd-doped fiber laser. <i>Physical Review A</i> , 1992, 46, 2811-2822.	2.5	160
4	Single-shot measurement of phase and amplitude by using a heterodyne time-lens system and ultrafast digital time-holography. <i>Nature Photonics</i> , 2018, 12, 228-234.	31.4	126
5	Stabilization and characterization of unstable steady states in a laser. <i>Physical Review A</i> , 1993, 47, 3276-3279.	2.5	118
6	Alternate time scale in multimode lasers. <i>Physical Review A</i> , 1992, 46, 1692-1695.	2.5	108
7	Experimental characterization of unstable periodic orbits by controlling chaos. <i>Physical Review A</i> , 1993, 47, R2492-R2495.	2.5	108
8	Tunable narrowband terahertz emission from mastered laser-electron beam interaction. <i>Nature Physics</i> , 2008, 4, 390-393.	16.7	89
9	Pulse Splitting in Short Wavelength Seeded Free Electron Lasers. <i>Physical Review Letters</i> , 2009, 103, 264801.	7.8	36
10	Horseshoe templates with global torsion in a driven laser. <i>Physical Review E</i> , 1997, 55, 5082-5091.	2.1	32
11	The Q-switching instability in passively mode-locked lasers. <i>Physica D: Nonlinear Phenomena</i> , 2006, 219, 13-21.	2.8	30
12	Phase Diversity Electro-optic Sampling: A new approach to single-shot terahertz waveform recording. <i>Light: Science and Applications</i> , 2022, 11, 14.	16.6	27
13	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
14	Suppression of Q-switch instabilities by feedback control in passively mode-locked lasers. <i>Optics Letters</i> , 2001, 26, 692.	3.3	20
15	Faraday Instability in a Multimode Laser. <i>Physical Review Letters</i> , 1998, 80, 3968-3971.	7.8	19
16	Experimental observation of a chaotic attractor with a reverse horseshoe topological structure. <i>Physical Review E</i> , 1997, 55, R3801-R3804.	2.1	18
17	Propagation of Waves in the Spectrum of a Multimode Laser. <i>Physical Review Letters</i> , 1996, 77, 4540-4543.	7.8	11
18	High-Speed Ba-Cu-O Direct Detection System for Monitoring Picosecond THz Pulses. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 81-86.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Investigation of the Electrical Field Sensitivity of Sub- $\lambda/4$ m YBCO Detectors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	10
20	Periodic mode hopping induced by thermo-optic effects in continuous-wave optical parametric oscillators. Optics Letters, 2001, 26, 1415.	3.3	9
21	Eckhaus instability induced by nonuniformities in a laser. Physical Review A, 2001, 64, .	2.5	9
22	Fast oscillations in an optical parametric oscillator. Optics Communications, 2001, 200, 369-379.	2.1	8
23	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
24	Self-starting of feedback control in lasers with a tendency to Q-switch. Optics Communications, 2003, 220, 171-177.	2.1	6
25	Incompatibility of cavity resonances with wave-vector matching: influence on threshold and beam structures of optical parametric oscillators. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 395.	2.1	5
26	Acoustical and optical branches in the spectral waves of a laser. Physical Review A, 1998, 57, 3022-3027.	2.5	4
27	Optical time division multiplexing: a powerful technique for experimental investigations of spatiotemporal dynamics. Optics Communications, 2003, 223, 181-185.	2.1	3
28	Unveiling the complex shapes of relativistic electrons bunches, using photonic time-stretch electro-optic sampling. , 2016, , .		3
29	<title>Control of laser chaos</title>. Proceedings of SPIE, 1993, , .	0.8	2
30	Cooperative Oscillation of Nondegenerate Transverse Modes in an Optical System: Multimode Operation in Parametric Oscillators. Physical Review Letters, 2009, 102, 183901.	7.8	2
31	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
32	Single-shot observation of optical rogue waves in integrable turbulence using time microscopy. , 2017, , .		1
33	Ultra-fast detector for wide range spectral measurements. , 2019, , .		1
34	Terabit sampling system with photonic time-stretch analog-to-digital converter. , 2022, , .		1
35	Unveiling relativistic electron bunch microstructures and their dynamical evolutions, using photonic time-stretch. Proceedings of SPIE, 2017, , .	0.8	0
36	Single-shot Measurement of THz pulses with sub-picosecond resolution and Megahertz acquisition rates. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Control of undulator radiation using a Laser Plasma Acceleration Source. Journal of Physics: Conference Series, 2020, 1596, 012045.	0.4	0
38	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
39	Ultrafast linear array detector for real-time imaging. , 2019, , .		0
40	Progress towards laser plasma based free electron laser on COXINEL. Journal of Physics: Conference Series, 2020, 1596, 012040.	0.4	0