Daniel J Gauthier

List of Publications by Year
in descending order

251	11,361	30070 54	31849 101
papers	citations	h-index	g-index

255	255	255	6051
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tunable All-Optical Delays via Brillouin Slow Light in an Optical Fiber. Physical Review Letters, 2005, 94, 153902.	7.8	772
2	Vacuum Rabi splitting as a feature of linear-dispersion theory: Analysis and experimental observations. Physical Review Letters, 1990, 64, 2499-2502.	7.8	510
3	High-dimensional quantum cryptography with twisted light. New Journal of Physics, 2015, 17, 033033.	2.9	475
4	Stabilizing unstable periodic orbits in fast dynamical systems. Physical Review E, 1994, 50, 3245-3248.	2.1	389
5	Stored Light in an Optical Fiber via Stimulated Brillouin Scattering. Science, 2007, 318, 1748-1750.	12.6	327
6	The speed of information in a â€˜fast-lightâ€™ optical medium. Nature, 2003, 425, 695-698.	27.8	318
7	Controlling the Velocity of Light Pulses. Science, 2009, 326, 1074-1077.	12.6	283
8	â€œSlowâ€•and â€œfastâ€•light. Progress in Optics, 2002, 43, 497-530.	0.6	274
9	All-Optical Switching in Rubidium Vapor. Science, 2005, 308, 672-674.	12.6	263
10	Provably secure and high-rate quantum key distribution with time-bin qudits. Science Advances, 2017, 3, e1701491.	10.3	209
11	Applications of Slow Light in Telecommunications. Optics and Photonics News, 2006, 17, 18.	0.5	200
12	Intermittent Loss of Synchronization in Coupled Chaotic Oscillators: Toward a New Criterion for High-Quality Synchronization. Physical Review Letters, 1996, 77, 1751-1754.	7.8	198
13	Waveguide QED: Many-body bound-state effects in coherent and Fock-state scattering from a two-level system. Physical Review A, 2010, 82, .	2.5	186
14	Broadband SBS Slow Light in an Optical Fiber. Journal of Lightwave Technology, 2007, 25, 201-206.	4.6	183
15	Next generation reservoir computing. Nature Communications, 2021, 12, 5564.	12.8	178
16	Maximum time delay achievable on propagation through a slow-light medium. Physical Review A, 2005, 71, .	2.5	170
17	Distortion management in slow-light pulse delay. Optics Express, 2005, 13, 9995.	3.4	161
18	Realization of a continuous-wave, two-photon optical laser. Physical Review Letters, 1992, 68, 464-467.	7.8	152

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19	Broadband Chaos Generated by an Optoelectronic Oscillator. Physical Review Letters, 2010, 104, 113901.	7.8	150
20	Enhancing the spectral sensitivity of interferometers using slow-light media. Optics Letters, 2007, 32, 915.	3.3	145
21	Numerical study of all-optical slow-light delays via stimulated Brillouin scattering in an optical fiber. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2378.	2.1	133
22	Waveguide-QED-Based Photonic Quantum Computation. Physical Review Letters, 2013, 111, 090502.	7.8	128
23	Transitions to Bubbling of Chaotic Systems. Physical Review Letters, 1996, 77, 5361-5364.	7.8	122
24	Prevalence of Rate-Dependent Behaviors in Cardiac Muscle. Physical Review Letters, 1999, 82, 2995-2998.	7.8	119
25	Stabilizing unstable periodic orbits in a fast diode resonator using continuous time-delay autosynchronization. Physical Review E, 1994, 50, 2343-2346.	2.1	117
26	Transient scaling and resurgence of chimera states in networks of Boolean phase oscillators. Physical Review E, 2014, 90, 030902.	2.1	114
27	Resonance fluorescence of two-level atoms under strong bichromatic excitation. Physical Review A, 1990, 41, 6574-6576.	2.5	110
28	Competition between amplified spontaneous emission and the four-wave-mixing process. Physical Review A, 1987, 35, 1648-1658.	2.5	109
29	Cavity-Free Photon Blockade Induced by Many-Body Bound States. Physical Review Letters, 2011, 107, 223601.	7.8	107
30	Spectrum of radiation from two-level atoms under intense bichromatic excitation. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 1163.	2.1	103
31	Direct Observation of Optical Precursors in a Region of Anomalous Dispersion. Physical Review Letters, 2006, 96, 143901.	7.8	103
32	Controlling chaos in a fast diode resonator using extended time-delay autosynchronization: Experimental observations and theoretical analysis. Chaos, 1997, 7, 560-576.	2.5	102
33	The Restitution Portrait:. A New Method for Investigating Rate-Dependent Restitution. Journal of Cardiovascular Electrophysiology, 2004, 15, 698-709.	1.7	101
34	Predictability and Suppression of Extreme Events in a Chaotic System. Physical Review Letters, 2013, 111, 198701.	7.8	101
35	Suppression of Amplified Spontaneous Emission by the Four-Wave Mixing Process. Physical Review Letters, 1985, 55, 1086-1089.	7.8	99
36	Forecasting chaotic systems with very low connectivity reservoir computers. Chaos, 2019, 29, 123108.	2.5	97

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37	Experimental Control of Cardiac Muscle Alternans. Physical Review Letters, 2002, 88, 198102.	7.8	95
38	Condition for alternans and stability of the 1:1 response pattern in a â€œmemoryâ€•model of paced cardiac dynamics. Physical Review E, 2003, 67, 031904.	2.1	95
39	Observation of linewidth narrowing due to coherent stabilization of quantum fluctuations. Physical Review Letters, 1991, 66, 2460-2463.	7.8	93
40	Reservoir computing with a single time-delay autonomous Boolean node. Physical Review E, 2015, 91, 020801.	2.1	93
41	Strongly correlated photons generated by coupling a three- or four-level system to a waveguide. Physical Review A, 2012, 85, .	2.5	84
42	Multi-photon detection using a conventional superconducting nanowire single-photon detector. Optica, 2017, 4, 1534.	9.3	81
43	Control of Synchronization Patterns in Neural-like Boolean Networks. Physical Review Letters, 2013, 110, 104102.	7.8	78
44	Transparency on an optical chip. Nature, 2006, 441, 701-702.	27.8	76
45	Optimal pump profile designs for broadband SBS slow-light systems. Optics Express, 2008, 16, 2764.	3.4	76
46	Polarization bistability of counterpropagating laser beams. Physical Review Letters, 1990, 64, 1721-1724.	7.8	75
47	Observation of deterministic chaos in a phase-conjugate mirror. Physical Review Letters, 1987, 58, 1640-1643.	7.8	72
48	Boolean chaos. Physical Review E, 2009, 80, 045202.	2.1	72
49	FSBS resonances observed in a standard highly nonlinear fiber. Optics Express, 2011, 19, 5339.	3.4	70
50	Simple, compact, high-performance permanent-magnet Faraday isolator. Optics Letters, 1986, 11, 623.	3.3	60
51	Secure information capacity of photons entangled in many dimensions. Physical Review A, 2012, 85, .	2.5	58
52	Statistics of power-dropout events in semiconductor lasers with time-delayed optical feedback. Physical Review A, 1997, 56, R3370-R3373.	2.5	57
53	Rapid time series prediction with a hardware-based reservoir computer. Chaos, 2018, 28, 123119.	2.5	57
54	Two-photon conical emission. Optics Communications, 1985, 54, 241-245.	2.1	56

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55	Design of a tunable time-delay element using multiple gain lines for increased fractional delay with high data fidelity. Optics Letters, 2007, 32, 1986.	3.3	56
56	Entraining power-dropout events in an external-cavity semiconductor laser using weak modulation of the injection current. IEEE Journal of Quantum Electronics, 2000, 36, 175-183.	1.9	55
57	Fast Causal Information Transmission in a Medium With a Slow Group Velocity. Physical Review Letters, 2005, 94, 053902.	7.8	55
58	Fiber-Based Slow-Light Technologies. Journal of Lightwave Technology, 2008, 26, 3752-3762.	4.6	54
59	Honeycomb Pattern Formation by Laser-Beam Filamentation in Atomic Sodium Vapor. Physical Review Letters, 2002, 88, 113901.	7.8	51
60	Security of high-dimensional quantum key distribution protocols using Franson interferometers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 104010.	1.5	50
61	Polarization instabilities of counterpropagating laser beams in sodium vapor. Physical Review Letters, 1988, 61, 1827-1830.	7.8	49
62	Slow light on Gbit/s differential-phase-shift-keying signals. Optics Express, 2007, 15, 1878.	3.4	46
63	Bunching-induced optical nonlinearity and instability in cold atoms [Invited]. Optics Express, 2011, 19, 22535.	3.4	46
64	Condition for alternans and its control in a two-dimensional mapping model of paced cardiac dynamics. Physical Review E, 2004, 69, 031904.	2.1	45
65	Phase-sensitive dynamics of bichromatically driven two-level atoms. Physical Review A, 1994, 49, R1519-R1522.	2.5	44
66	Resource Letter: CC-1: Controlling chaos. American Journal of Physics, 2003, 71, 750-759.	0.7	44
67	Trapping and cooling of atoms in a vacuum perturbed in a frequency-dependent manner. Physical Review Letters, 1991, 67, 1723-1726.	7.8	42
68	Analysis and comparison of multiple-delay schemes for controlling unstable fixed points of discrete maps. Physical Review E, 1998, 57, 6589-6595.	2.1	42
69	Controlling Fast Chaos in Delay Dynamical Systems. Physical Review Letters, 2004, 92, 193901.	7.8	41
70	Slow light brings faster communications. Physics World, 2005, 18, 30-32.	0.0	40
71	Phase-conjugate Fizeau interferometer. Optics Letters, 1989, 14, 323.	3.3	39
72	Analysis of the Fentonâ€“Karma model through an approximation by a one-dimensional map. Chaos, 2002, 12, 1034-1042.	2.5	38

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73	Nearly transparent SBS slow light in an optical fiber. Optics Express, 2006, 14, 7238.	3.4	37
74	Pulse-train solutions and excitability in an optoelectronic oscillator. Europhysics Letters, 2011, 96, 34001.	2.0	37
75	On the origin of chaos in autonomous BooleanÂnetworks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 495-513.	3.4	34
76	Synchronization of coupled Boolean phase oscillators. Physical Review E, 2014, 89, 042907.	2.1	34
77	Scaling of the nonlinear response of the surface plasmon polariton at a metal/dielectric interface. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 9.	2.1	34
78	Robust and Stable Delay Interferometers with Application to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi></mml:mrow></mml:math>-Dimensional Time-Frequency Quantum Key Distribution. Physical Review Applied, 2017, 7, .	3.8	33
79	Ultrafast physical generation of random numbers using hybrid Boolean networks. Physical Review E, 2013, 87, 040902.	2.1	32
80	Reducing pulse distortion in fast-light pulse propagation through an erbium-doped fiber amplifier. Optics Letters, 2007, 32, 906.	3.3	31
81	High-Speed Chaos in an Optical Feedback System With Flexible Timescales. IEEE Journal of Quantum Electronics, 2004, 40, 299-305.	1.9	30
82	Competition between electromagnetically induced transparency and Raman processes. Physical Review A, 2006, 74, .	2.5	30
83	High-order optical nonlinearity at low light levels. Europhysics Letters, 2012, 98, 24001.	2.0	30
84	Amplification of laser beams propagating through a collectionof strongly driven, Doppler-broadened two-level atoms. Physical Review A, 1997, 55, R1601-R1604.	2.5	29
85	Polarization Instabilities in a Two-Photon Laser. Physical Review Letters, 2001, 86, 4512-4515.	7.8	29
86	Period-Doubling Bifurcation to Alternans in Paced Cardiac Tissue: Crossover from Smooth to Border-Collision Characteristics. Physical Review Letters, 2007, 99, 058101.	7.8	29
87	Vector phase conjugation by two-photon-resonant degenerate four-wave mixing. Optics Letters, 1988, 13, 663.	3.3	28
88	Hopf bifurcations in time-delay systems with band-limited feedback. Physica D: Nonlinear Phenomena, 2005, 210, 180-202.	2.8	28
89	Observation of large 10-Gb/s SBS slow light delay with low distortion using an optimized gain profile. Optics Express, 2008, 16, 16032.	3.4	28
90	Steady-state, cavityless, multimode superradiance in a cold vapor. Physical Review A, 2012, 86, .	2.5	28

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91	Stabilizing unstable steady states using extended time-delay autosynchronization. Chaos, 1998, 8, 782-790.	2.5	27
92	Accurate description of optical precursors and their relation to weak-field coherent optical transients. Physical Review A, 2009, 79, .	2.5	27
93	Transverse optical patterns for ultraâ€lowâ€lightâ€level allâ€optical switching. Laser and Photonics Reviews, 2010, 4, 221-243.	8.7	27
94	Enhancing four-wave-mixing processes by nanowire arrays coupled to a gold film. Optics Express, 2012, 20, 11005.	3.4	27
95	Maximizing the opening of eye diagrams for slow-light systems. Applied Optics, 2007, 46, 6513.	2.1	26
96	Progress toward controllingin vivofibrillating sheep atria using a nonlinear-dynamics-based closed-loop feedback method. Chaos, 2002, 12, 952-961.	2.5	25
97	Quantum key distribution in a high-dimensional state space: exploiting the transverse degree of freedom of the photon. Proceedings of SPIE, 2011, , .	0.8	25
98	Experiments on autonomous Boolean networks. Chaos, 2013, 23, 025102.	2.5	24
99	Optical resonance and coherent transients in dressed atomic systems. Physical Review A, 1994, 50, 1474-1478.	2.5	23
100	Observation of large continuous-wave two-photon optical amplification. Physical Review A, 1997, 56, 1519-1523.	2.5	23
101	Ultra-high-frequency chaos in a time-delay electronic device with band-limited feedback. Chaos, 2006, 16, 033119.	2.5	22
102	Controlling Optical Chaos, Spatio-Temporal Dynamics, and Patterns. Advances in Atomic, Molecular and Optical Physics, 2007, , 615-697.	2.3	22
103	Refractive Changes after Descemet Stripping Endothelial Keratoplasty: A Simplified Mathematical Model. , 2011, 52, 1043.		22
104	Scalable cryogenic readout circuit for a superconducting nanowire single-photon detector system. Review of Scientific Instruments, 2018, 89, 063117.	1.3	22
105	Comment on ``Dynamic Control of Cardiac Alternans''. Physical Review Letters, 1997, 79, 4938-4938.	7.8	21
106	Restitution in mapping models with an arbitrary amount of memory. Chaos, 2005, 15, 023701.	2.5	21
107	An Ionically Based Mapping Model with Memory for Cardiac Restitution. Bulletin of Mathematical Biology, 2007, 69, 459-482.	1.9	21
108	Securing quantum key distribution systems using fewer states. Physical Review A, 2018, 97, .	2.5	21

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109	Amplification of laser beams counterpropagating through a potassium vapor: The effects of atomic coherence. Physical Review A, 1997, 56, 3255-3261.	2.5	19
110	Subwavelength Position Sensing Using Nonlinear Feedback and Wave Chaos. Physical Review Letters, 2011, 107, 254103.	7.8	19
111	Multirhythmicity in an optoelectronic oscillator with large delay. Physical Review E, 2015, 91, 012910.	2.1	19
112	Simple rate-equation model for two-photon lasers. Optics Letters, 1994, 19, 472.	3.3	18
113	Aberration-corrected quantum temporal imaging system. Physical Review A, 2013, 87, .	2.5	18
114	Experimental and numerical study of the symbolic dynamics of a modulated external-cavity semiconductor laser. Optics Express, 2014, 22, 4705.	3.4	18
115	Spontaneous emergence of free-space optical and atomic patterns. New Journal of Physics, 2016, 18, 103021.	2.9	18
116	Scalable high-rate, high-dimensional time-bin encoding quantum key distribution. Quantum Science and Technology, 2019, 4, 035008.	5.8	18
117	Model-free control of dynamical systems with deep reservoir computing. Journal of Physics Complexity, 2021, 2, 035025.	2.2	18
118	Use of phase-noisy laser fields in the storage of optical pulse shapes in inhomogeneously broadened absorbers. Optics Letters, 1991, 16, 103.	3.3	17
119	Pump-beam-instability limits to Raman-gain-doublet â€œfast-lightâ€•pulse propagation. Physical Review A, 2003, 67, .	2.5	17
120	High-fidelity, broadband stimulated-Brillouin-scattering-based slow light using fast noise modulation. Optics Express, 2011, 19, 687.	3.4	17
121	An angle-dependent estimation of CT x-ray spectrum from rotational transmission measurements. Medical Physics, 2014, 41, 062104.	3.0	17
122	Universal Model for the Turn-On Dynamics of Superconducting Nanowire Single-Photon Detectors. Physical Review Applied, 2019, 12, .	3.8	17
123	Model-free inference of unseen attractors: Reconstructing phase space features from a single noisy trajectory using reservoir computing. Chaos, 2021, 31, 103127.	2.5	16
124	Fourth-harmonic generation in a single lithium niobate-crystal with cascaded second-harmonic generation. Applied Optics, 1994, 33, 6980.	2.1	15
125	Controlling lasers by use of extended time-delay autosynchronization. Optics Letters, 1998, 23, 703.	3.3	15
126	Two-photon stimulated emission in laser-driven alkali-metal atoms using an orthogonal pump-probe geometry. Physical Review A, 1999, 60, R4249-R4252.	2.5	15

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127	All-optical switching with transverse optical patterns. Physical Review A, 2008, 77, .	2.5	15
128	Bounding the outcome of a two-photon interference measurement using weak coherent states. Optics Letters, 2018, 43, 3806.	3.3	15
129	Observation of resonantly enhanced sum-frequency generation involving sodium Rydberg states. Optics Letters, 1983, 8, 211.	3.3	14
130	Experimental investigation of high-quality synchronization of coupled oscillators. Chaos, 2000, 10, 738-744.	2.5	14
131	Rate-dependent propagation of cardiac action potentials in a one-dimensional fiber. Physical Review E, 2004, 70, 061906.	2.1	14
132	Optical precursors in the singular and weak dispersion limits. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1664.	2.1	14
133	Reconfigurable generation and measurement of mutually unbiased bases for time-bin qudits. Applied Physics Letters, 2018, 112, .	3.3	14
134	Polarization properties of optical phase conjugation by two-photon resonant degenerate four-wave mixing. Physical Review A, 1989, 40, 1908-1917.	2.5	13
135	Control of electrical alternans in simulations of paced myocardium using extended time-delay autosynchronization. Physical Review E, 2007, 76, 041917.	2.1	13
136	Super-transient scaling in time-delay autonomous Boolean network motifs. Chaos, 2016, 26, 094810.	2.5	13
137	Transient dynamics and their control in time-delay autonomous Boolean ring networks. Physical Review E, 2017, 95, 022211.	2.1	13
138	Continuously tunable sum-frequency generation involving sodium Rydberg states. IEEE Journal of Quantum Electronics, 1984, 20, 1074-1078.	1.9	12
139	Absorption-induced trapping in an anisotropic magneto-optical trap. Optics Express, 2007, 15, 17699.	3.4	12
140	The information of high-dimensional time-bin encoded photons. European Physical Journal D, 2016, 70, 1.	1.3	12
141	High-Resolution High-Speed Panoramic Cardiac Imaging System. IEEE Transactions on Biomedical Engineering, 2008, 55, 1241-1243.	4.2	11
142	Multidimensional subwavelength position sensing using a semiconductor laser with optical feedback. Optics Letters, 2013, 38, 4331.	3.3	11
143	Advanced active quenching circuit for ultra-fast quantum cryptography. Optics Express, 2017, 25, 21861.	3.4	11
144	Multimode Time-Delay Interferometer for Free-Space Quantum Communication. Physical Review Applied, 2020, 13, .	3.8	11

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145	Control of cardiac alternans in a mapping model with memory. Physica D: Nonlinear Phenomena, 2004, 194, 385-391.	2.8	10
146	A pseudo-matched filter for chaos. Chaos, 2012, 22, 033148.	2.5	10
147	Comment on â€œGeneralized grating equation for virtually imaged phased-array spectral dispersersâ€. Applied Optics, 2012, 51, 8184.	1.8	10
148	Enhancing light-atom interactions via atomic bunching. Physical Review A, 2014, 90, .	2.5	10
149	Transverse optical and atomic pattern formation. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1543.	2.1	10
150	PHYSICS: Enhanced: Chaos Has Come Again. Science, 1998, 279, 1156-1157.	12.6	9
151	Two-photon lasers. Progress in Optics, 2003, 45, 205-272.	0.6	9
152	Slow Light. Optics and Photonics News, 2005, 16, 42.	0.5	9
153	Small-signal amplification of period-doubling bifurcations in smooth iterated maps. Nonlinear Dynamics, 2007, 48, 381-389.	5.2	9
154	Cardiac Alternans Arising From an Unfolded Border-Collision Bifurcation. Journal of Computational and Nonlinear Dynamics, 2008, 3, 041004.	1.2	9
155	Competition between the modulation instability and stimulated Brillouin scattering in a broadband slow light device. Journal of Optics (United Kingdom), 2010, 12, 104019.	2.2	9
156	Alternate schemes for the coherent laser control of chemical reactions. Journal of Chemical Physics, 1993, 99, 1618-1622.	3.0	8
157	Solitons go slow. Nature Photonics, 2007, 1, 92-93.	31.4	8
158	Information-theoretic analysis of a stimulated-Brillouin-scattering-based slow-light system. Applied Optics, 2011, 50, 6063.	2.1	8
159	Carrier-frequency dependence of a step-modulated pulse propagating through a weakly dispersive single narrow-resonance absorber. Journal of Modern Optics, 2011, 58, 865-872.	1.3	8
160	Excitability in autonomous Boolean networks. Europhysics Letters, 2012, 100, 30003.	2.0	8
161	Giant all-optical tunable group velocity dispersion in an optical fiber. Optics Express, 2014, 22, 14382.	3.4	8
162	Submillisecond, nondestructive, time-resolved quantum-state readout of a single, trapped neutral atom. Physical Review A, 2020, 102, .	2.5	8

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163	Hybrid Boolean Networks as Physically Unclonable Functions. IEEE Access, 2021, 9, 44855-44867.	4.2	8
164	Qubit-Based Clock Synchronization for QKD Systems Using a Bayesian Approach. Entropy, 2021, 23, 988.	2.2	8
165	Symmetry-aware reservoir computing. Physical Review E, 2021, 104, 045307.	2.1	8
166	ATTRACTOR BUBBLING IN COUPLED HYPERCHAOTIC OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 835-847.	1.7	7
167	Two-photon amplification and lasing in laser-driven potassium atoms:â€ƒTheoretical analysis. Physical Review A, 2002, 65, .	2.5	7
168	Multiphoton lasing in atomic potassium: Steady-state and dynamic behavior. Physical Review A, 2005, 72, .	2.5	7
169	Causality in Superluminal Pulse Propagation. Lecture Notes in Physics, 2009, , 175-204.	0.7	7
170	Existence of Bistability and Correlation with Arrhythmogenesis in Paced Sheep Atria. Journal of Cardiovascular Electrophysiology, 2000, 11, 797-805.	1.7	6
171	A Fiber-Based Ratiometric Optical Cardiac Mapping Channel Using a Diffraction Grating and Split Detector. Biophysical Journal, 2007, 93, 254-263.	0.5	6
172	Slow light with a swept-frequency source. Optics Express, 2010, 18, 27263.	3.4	6
173	Forced synchronization of autonomous dynamical Boolean networks. Chaos, 2015, 25, 083113.	2.5	6
174	Room-temperature spectral hole burning in an engineered inhomogeneously broadened resonance. Optics Letters, 2008, 33, 2374.	3.3	5
175	Transient dynamics and momentum redistribution in cold atoms via recoil-induced resonances. Physical Review A, 2009, 79, .	2.5	5
176	Enhancing Heralding Efficiency and Biphoton Rate in Type-I Spontaneous Parametric Down-Conversion. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 215-224.	2.9	5
177	Transient sum-frequency generation in resonant three-level media. Physical Review A, 1985, 32, 3461-3466.	2.5	4
178	Decoy-state quantum key distribution with nonclassical light generated in a one-dimensional waveguide. Optics Letters, 2013, 38, 622.	3.3	4
179	Publisher's Note: Ultrafast physical generation of random numbers using hybrid Boolean networks [Phys. Rev. E87, 040902(R) (2013)]. Physical Review E, 2013, 87, .	2.1	4
180	High-speed harvesting of random numbers. Science, 2021, 371, 889-890.	12.6	4

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181	Quantum Key Distribution Using Hyperentangled Time-Bin States. , 2013, , .		4
182	Nonlinear Optics: Honeycomb Pattern Formation by Laser-Beam Filamentation in Atomic Sodium Vapor. Optics and Photonics News, 2002, 13, 29.	0.5	3
183	Multiphoton amplification processes and quantum-path interferences in a coherently driven atomic vapor. Physical Review A, 2003, 68, .	2.5	3
184	Superluminal speed of information? (reply). Nature, 2004, 429, 40-40.	27.8	3
185	Improving the bandwidth of SBS-based slow-light delay. , 2006, , .		3
186	Light Storage via Stimulated Brillouin Scattering in an Optical Fiber. Optics and Photonics News, 2008, 19, 40.	0.5	3
187	Controllable ultrabroadband slow light in a warm rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2578.	2.1	3
188	Low-cost chaotic radar design. Proceedings of SPIE, 2012, , .	0.8	3
189	Phase locking of multiple optical fiber channels for a slow-light-enabled laser radar system. Optics Express, 2013, 21, 13094.	3.4	3
190	Quantum Key Distribution Using Hyperentangled Time-Bin States. , 2013, , .		3
191	Cryogenic Amplifiers for a Superconducting Nanowire Single Photon Detector System. , 2016, , .		3
192	High-Resolution Waveform Capture Device on a Cyclone-V FPGA. IEEE Access, 2021, 9, 146203-146213.	4.2	3
193	Competition between four-wave mixing and amplified spontaneous emission. Hyperfine Interactions, 1987, 37, 125-139.	0.5	2
194	Experimental control of a chaotic point process using interspike intervals. Physical Review E, 1998, 58, 1685-1689.	2.1	2
195	Enhancing the Spectral Sensitivity and Resolution of Interferometers Using Slow-Light Media. , 2007, , .		2
196	Ultra-high-frequency piecewise-linear chaos using delayed feedback loops. Chaos, 2012, 22, 043112.	2.5	2
197	Precise Monte Carlo simulation of single-photon detectors. , 2013, , .		2
198	Reservoir Computing Using Autonomous Boolean Networks Realized on Field-Programmable Gate Arrays. Natural Computing Series, 2021, , 239-271.	2.2	2

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199	Predicting hidden structure in dynamical systems. Nature Machine Intelligence, 2021, 3, 281-282.	16.0	2
200	Discrete-variable time-frequency quantum key distribution. , 2016, , .		2
201	Optical precursors in a weakly dispersive double narrow-resonance dielectric. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3282.	2.1	2
202	Polarization dynamics of two-photon and cascade lasers in the presence of an arbitrarily directed magnetic field. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, 243-253.	1.4	1
203	Control of cardiac alternans in a mapping model with memory. Physica D: Nonlinear Phenomena, 2004, 194, 385-385.	2.8	1
204	Experimental study of the complex dynamics of semiconductor lasers with feedback via symbolic time-series analysis. Proceedings of SPIE, 2014, , .	0.8	1
205	Observation of elliptical rings in type-I spontaneous parametric downconversion. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2096.	2.1	1
206	Enhancing the secure key rate in a quantum-key-distribution system using discrete-variable, high-dimensional, time-frequency states. , 2016, , .		1
207	Comment on â€œNondestructive light-shift measurements of single atoms in optical dipole trapsâ€• Physical Review A, 2017, 96, .	2.5	1
208	The Two-Photon Laser. NATO ASI Series Series B: Physics, 1994, , 365-384.	0.2	1
209	Quantum Key Distribution Using Hyperentanglement. , 2012, , .		1
210	Distortion-Reduced Pulse-Train Propagation with Large Delay in a Triple Gain Media. , 2006, , .		1
211	Using Transverse Patterns for All-Optical Switching. , 2007, , .		1
212	Superluminal Communication in Quantum Mechanics. , 2009, , 766-769.		1
213	Observation of Polarization Instabilities and Chaos in a Two-Photon Laser. Optics and Photonics News, 2001, 12, 58.	0.5	0
214	Observation of ultra-low-light-level all-optical switching. , 2005, , .		0
215	XPM-induced pulse delay and advancement in optical fiber. , 2006, , .		0
216	A Model-Independent Technique for Eigenvalue Identification and Its Application in Predicting Cardiac Alternans. , 2007, , 301.		0

#	Article	IF	Citations
217	Pulse broadening or compression in fast-light pulse propagation through an erbium-doped fiber amplifier. , 2007, , .		0
218	Slow light in room-temperature optical waveguides. , 2007, , .		0
219	Controlling Fast Chaos in Optoelectronic Delay Dynamical Systems. , 0, , 405-425.		0
220	Slow light and stored light using SBS in an optical fiber. , 2008, , .		0
221	Slow light and stored light using SBS in an optical fiber. , 2008, , .		0
222	Spatial heterogeneity of restitution properties and the onset of alternans. , 2009, 2009, 4186-9.		0
223	Interference of FSBS and Kerr effect in a standard highly nonlinear fiber. , 2011, , .		0
224	Optical precursors in the singular and weak dispersion limits: reply to comment. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 468.	2.1	0
225	Focus issue introduction: nonlinear optics. Optical Materials Express, 2011, 1, 1393.	3.0	0
226	Fiber-length dependence of slow light with a swept-frequency source. , 2011, , .		0
227	High-Speed Quantum Key Distribution Using Hyper-Entangled Photons. , 2012, , .		0
228	Destructive impact of imperfect beam collimation in extraordinary optical transmission. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1281.	1.5	0
229	Ultra-low-threshold optical pattern formation in a cold atomic vapor. , 2013, , .		0
230	Low-noise frequency downconversion for long-distance distribution of entangled atomic qubits. , 2013, , .		0
231	Correction to â€œEnhancing Heralding Efficiency and Biphoton Rate in Type-I Spontaneous Parametric Down-Conversionâ€•[May 15 6400610]. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-1.	2.9	0
232	Scaling of the Nonlinear Response of Metal/Dielectric Plasmonic Waveguides. , 2015, , .		0
233	Advanced active quenching circuits for single-photon avalanche photodiodes. , 2016, , .		0
234	Dynamics of a two-photon laser. , 2003, , 547-548.		0

#	Article	IF	Citations
235	Polarization dynamics of a two-photon laser. , 2003, , 131-136.		0
236	Superluminal light pulses, subluminal information transmission. , 2004, , .		0
237	Optically tunable â€œslowâ€•light in waveguides. , 2005, , .		0
238	Recent Advances in Stimulated Brillouin Scattering Slow Light. , 2006, , .		0
239	Progress on Stopped Light and Large-Delay Slow Light in Optical Fibers. , 2007, , .		0
240	Observation of large 8-Gb/s SBS slow light delay with low distortion using an optimized gain profile. , 2008, , .		0
241	Superradiance in an Ultracold Thermal Vapor. , 2009, , .		0
242	Self-phase matched four-wave mixing in cold vapor. , 2010, , .		0
243	Toward single-photon nonlinear optics via self-assembled ultracold atoms. , 2010, , .		0
244	Broadband slow light with a swept-frequency source. , 2010, , .		0
245	Transverse optical patterns for low-light-level optical switching. , 2013, , .		0
246	A Novel Technique for Resonantly Enhanced Sum-Frequency Generation Involving Rydberg Atomic States. , 1984, , 517-522.		0
247	Bistability and Chaos in Counterpropagating Laser Beams. , 1990, , 395-399.		0
248	Observation of 30% Continuous-Wave Two-Photon Optical Amplification. , 1996, , 501-502.		0
249	Mutually unbiased bases for time-bin qudits. , 2018, , .		0
250	Universal turn-on dynamics of superconducing nanowire single-photon detectors. , 2019, , .		0
251	Sensitivity of a Chaotic Logic Gate. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3339-3343.	3.0	0