

Laurent Larger

List of Publications by Year in descending order

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202
papers

8,443
citations

53789

45
h-index

45310

90
g-index

203
all docs

203
docs citations

203
times ranked

3670
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and mitigating noise in trained deep neural networks. <i>Neural Networks</i> , 2022, 146, 151-160.	5.9	17
2	Nonlinear photonic dynamical systems for unconventional computing. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022, 13, 26-35.	0.6	4
3	An Echo State Network for fuel cell lifetime prediction under a dynamic micro-cogeneration load profile. <i>Applied Energy</i> , 2021, 283, 116297.	10.1	27
4	3D-printed core-cladding waveguides and adiabatic splitters for integrated photonic circuits. , 2021, , .		0
5	Scalable photonic splitters based on 3D laser lithography. , 2021, , .		0
6	3D printed interconnects of photonic waveguides. , 2021, , .		0
7	Two-color optically addressed spatial light modulator as a generic spatiotemporal system. <i>Chaos</i> , 2021, 31, 121104.	2.5	9
8	Diffraction Coupling For Photonic Networks: How Big Can We Go?. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-8.	2.9	19
9	3D printed multimode-splitters for photonic interconnects. <i>Optical Materials Express</i> , 2020, 10, 2952.	3.0	31
10	Three-dimensional waveguide interconnects for scalable integration of photonic neural networks. <i>Optica</i> , 2020, 7, 640.	9.3	77
11	Boolean learning under noise-perturbations in hardware neural networks. <i>Nanophotonics</i> , 2020, 9, 4139-4147.	6.0	12
12	Coupled Nonlinear Delay Systems as Deep Convolutional Neural Networks. <i>Physical Review Letters</i> , 2019, 123, 054101.	7.8	29
13	Delayed dynamical systems: networks, chimeras and reservoir computing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180123.	3.4	30
14	Noise and Consistency of Analogue Spatio-Temporal Photonic Neural Networks. , 2019, , .		0
15	Fundamental aspects of noise in analog-hardware neural networks. <i>Chaos</i> , 2019, 29, 103128.	2.5	25
16	Optoelectronic oscillators with time-delayed feedback. <i>Reviews of Modern Physics</i> , 2019, 91, .	45.6	106
17	Scaling Laws and Topology-Properties of Boolean Reinforcement Learning in Photonic Neural Networks. , 2019, , .		0
18	Reinforcement Learning in a Large Scale Photonic Network. , 2019, , .		0

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19	6. Ikeda delay dynamics as Reservoir processors. , 2019, , 153-184.		0
20	Advancing Fourier: space-time concepts in ultrafast optics, imaging, and photonic neural networks. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, C69.	1.5	4
21	Reservoir-Size Dependent Learning in Analogue Neural Networks. Lecture Notes in Computer Science, 2019, , 184-192.	1.3	0
22	Reinforcement Learning in a Large Scale Photonic Network. , 2019, , .		0
23	Multi-Reservoir Echo State Network for Proton Exchange Membrane Fuel Cell Remaining Useful Life prediction. , 2018, , .		18
24	Fault Diagnosis of PEMFC Systems in the Model Space Using Reservoir Computing. , 2018, , .		5
25	Efficient design of hardware-enabled reservoir computing in FPGAs. Journal of Applied Physics, 2018, 124, .	2.5	27
26	Two-dimensional spatiotemporal complexity in dual-delayed nonlinear feedback systems: Chimeras and dissipative solitons. Chaos, 2018, 28, 103106.	2.5	21
27	Tutorial: Photonic neural networks in delay systems. Journal of Applied Physics, 2018, 124, .	2.5	91
28	Reinforcement learning in a large-scale photonic recurrent neural network. Optica, 2018, 5, 756.	9.3	250
29	Dependence of quality factor on surface roughness in crystalline whispering-gallery mode resonators. Optics Letters, 2018, 43, 495.	3.3	23
30	Dynamical complexity and computation in recurrent neural networks beyond their fixed point. Scientific Reports, 2018, 8, 3319.	3.3	12
31	Reinforcement Learning in a Large Scale Photonic Network. , 2018, , .		2
32	Reinforcement Learning in a Large Scale Photonic Network. , 2018, , .		0
33	High-Speed Photonic Reservoir Computing Using a Time-Delay-Based Architecture: Million Words per Second Classification. Physical Review X, 2017, 7, .	8.9	241
34	Brain-inspired computational paradigm dedicated to fault diagnosis of PEM fuel cell stack. International Journal of Hydrogen Energy, 2017, 42, 5410-5425.	7.1	33
35	Multi-Gbit/s optical phase chaos communications using a time-delayed optoelectronic oscillator with a three-wave interferometer nonlinearity. Chaos, 2017, 27, 114311.	2.5	23
36	Operating Conditions Control for Extending Proton Exchange Membrane Fuel Cell Lifetime. , 2017, , .		2

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37	A complex network of 1600 holographically coupled opto-electronic oscillators: Network dynamics and utilisation for reservoir computing. , 2017, , .		0
38	Embedding in Neural Networks: A-Priori Design of Hybrid Computers for Prediction. , 2017, , .		0
39	Reservoir Computing Optimisation for PEM Fuel Cell Fault Diagnostic. , 2017, , .		7
40	Nonlinear Memory Capacity of Parallel Time-Delay Reservoir Computers in the Processing of Multidimensional Signals. Neural Computation, 2016, 28, 1411-1451.	2.2	13
41	Interaction between LiÅ©nard and Ikeda dynamics in a nonlinear electro-optical oscillator with delayed bandpass feedback. Physical Review E, 2016, 94, 062208.	2.1	6
42	Consistency in experiments on multistable driven delay systems. Chaos, 2016, 26, 103115.	2.5	8
43	Fuel Cells Fault Diagnosis under Dynamic Load Profile Using Reservoir Computing. , 2016, , .		10
44	Ikeda-like chaos on a dynamically filtered supercontinuum light source. Physical Review A, 2016, 94, .	2.5	11
45	Time-Delay Reservoir Computers and High-Speed Information Processing Capacity. , 2016, , .		1
46	Optimal nonlinear information processing capacity in delay-based reservoir computers. Scientific Reports, 2015, 5, 12858.	3.3	27
47	Experimental study of mixed-mode in laser-based optoelectronic oscillators based on van der Pol oscillators with intermediate frequencies. , 2015, , .		0
48	Mixed-mode oscillations in slow-fast delayed optoelectronic systems. Physical Review E, 2015, 91, 012902.	2.1	47
49	Optimally Coherent Kerr Combs Generated with Crystalline Whispering Gallery Mode Resonators for Ultrahigh Capacity Fiber Communications. Physical Review Letters, 2015, 114, 093902.	7.8	110
50	Kerr optical frequency comb generation in strontium fluoride whispering-gallery mode resonators with billion quality factor. Optics Letters, 2015, 40, 1567.	3.3	49
51	Laser chimeras as a paradigm for multistable patterns in complex systems. Nature Communications, 2015, 6, 7752.	12.8	156
52	Theoretical and experimental study of slow-scale Hopf limit-cycles in laser-based wideband optoelectronic oscillators. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2310.	2.1	22
53	On the metrological performances of optoelectronic oscillators based on whispering gallery mode resonators. Proceedings of SPIE, 2014, , .	0.8	0
54	Barium fluoride and lithium fluoride whispering-gallery-mode resonators for photonics applications. Optical Engineering, 2014, 53, 071821.	1.0	12

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55	Kerr comb generation from the perspective of spatial dissipative structures. Proceedings of SPIE, 2014, , .	0.8	0
56	Towards optoelectronic architectures for integrated neuromorphic computers. , 2014, , .		3
57	Stochastic nonlinear time series forecasting using time-delay reservoir computers: Performance and universality. Neural Networks, 2014, 55, 59-71.	5.9	32
58	Noise and Chaos Contributions in Fast Random Bit Sequence Generated From Broadband Optoelectronic Entropy Sources. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 888-901.	5.4	26
59	Optical rogue waves in whispering-gallery-mode resonators. Physical Review A, 2014, 89, .	2.5	68
60	Mixing of analogue and digital entropies for optical chaos communications. IEICE Proceeding Series, 2014, 1, 332-335.	0.0	0
61	Bifurcation analysis of Kerr optical frequency comb generation. IEICE Proceeding Series, 2014, 1, 779-782.	0.0	0
62	Virtual Chimera States for Delayed-Feedback Systems. Physical Review Letters, 2013, 111, 054103.	7.8	279
63	Real time spectra and wavelength correlation maps: New insights into octave-spanning supercontinuum generation and rogue waves. , 2013, , .		0
64	Phase noise performance of double-loop optoelectronic microwave oscillators. , 2013, , .		0
65	Nonlinear dynamics of optoelectronic oscillators based on whispering-gallery mode resonators. , 2013, , .		0
66	On phase locking phenomena in Kerr combs. , 2013, , .		0
67	Temporal dynamics of Kerr frequency combs in whispering-gallery mode resonators. Proceedings of SPIE, 2013, , .	0.8	0
68	10 GHz bandwidth nonlinear delay electro-optic phase dynamics for ultrafast nonlinear transient computing. , 2013, , .		1
69	Time-Domain Dynamics and Stability Analysis of Optoelectronic Oscillators Based on Whispering-Gallery Mode Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1-12.	2.9	44
70	Optoelectronic reservoir computing: tackling noise-induced performance degradation. Optics Express, 2013, 21, 12.	3.4	160
71	Real time noise and wavelength correlations in octave-spanning supercontinuum generation. Optics Express, 2013, 21, 18452.	3.4	87
72	Azimuthal Turing Patterns, Bright and Dark Cavity Solitons in Kerr Combs Generated With Whispering-Gallery-Mode Resonators. IEEE Photonics Journal, 2013, 5, 6100409-6100409.	2.0	127

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73	Dispersive time stretching measurements of real-time spectra and statistics for supercontinuum generation around 1550 nm. , 2013, , .		0
74	Demonstration of nonlocal dispersion cancelled two-photon Bessel interference in frequency domain. , 2013, , .		0
75	Experimental characterization of optoelectronic oscillators based on optical mini-resonators. , 2013, , .		5
76	Optoelectronic nonlinear transient computing with multiple delays. , 2013, , .		0
77	Complexity in electro-optic delay dynamics: modelling, design and applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120464.	3.4	74
78	Incoherent resonant seeding of modulation instability in optical fiber. Optics Letters, 2013, 38, 5338.	3.3	35
79	Kerr frequency combs in the normal and anomalous regimes. , 2013, , .		0
80	Slowâ€fast dynamics of a time-delayed electro-optic oscillator. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120459.	3.4	39
81	Experimental study of a crystalline-resonator based optoelectronic oscillator. , 2013, , .		1
82	Microwave Photonics Systems Based on Whispering-gallery-mode Resonators. Journal of Visualized Experiments, 2013, , .	0.3	20
83	FPGA Design for Pseudorandom Number Generator Based on Chaotic Iteration used in Information Hiding Application. Applied Mathematics and Information Sciences, 2013, 7, 2175-2188.	0.5	18
84	Random walks and random numbers from supercontinuum generation. Optics Express, 2012, 20, 11143.	3.4	17
85	Photonic Nonlinear Transient Computing with Multiple-Delay Wavelength Dynamics. Physical Review Letters, 2012, 108, 244101.	7.8	162
86	Crenelated fast oscillatory outputs of a two-delay electro-optic oscillator. Physical Review E, 2012, 85, 026206.	2.1	26
87	Photonic information processing beyond Turing: an optoelectronic implementation of reservoir computing. Optics Express, 2012, 20, 3241.	3.4	619
88	Temporally nonlocal dual delay electro-optic phase dynamics, and its bifurcation scenario. , 2012, , .		1
89	Strongly asymmetric square waves in a time-delayed system. Physical Review E, 2012, 86, 055201.	2.1	40
90	On the Phase Noise Performance of Nonlinear Double-Loop Optoelectronic Microwave Oscillators. IEEE Journal of Quantum Electronics, 2012, 48, 1415-1423.	1.9	44

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91	Estimation of the uncertainty for a phase noise optoelectronic metrology system. Physica Scripta, 2012, T149, 014025.	2.5	25
92	Real-time full bandwidth measurement of spectral noise in supercontinuum generation. Scientific Reports, 2012, 2, 882.	3.3	137
93	A Novel Photonics Approach to Unconventional Information Processing. , 2012, , .		0
94	Delay electro-optic dynamics for brain inspired information processing. , 2011, , .		0
95	Digital Key for Chaos Communication Performing Time Delay Concealment. Physical Review Letters, 2011, 107, 034103.	7.8	116
96	Field experiment optical chaos communication @ 10Gb/s demonstrating electro-optic phase chaos principles. , 2011, , .		1
97	Distinguishing fingerprints of hyperchaotic and stochastic dynamics in optical chaos from a delayed opto-electronic oscillator. Optics Letters, 2011, 36, 2212.	3.3	26
98	Wideband chaos generation using a delayed oscillator and a two-dimensional nonlinearity induced by a quadrature phase-shift-keying electro-optic modulator. Optics Letters, 2011, 36, 2833.	3.3	20
99	Digital key chaos-communication systems with delay time concealment. , 2011, , .		0
100	Photonic filtering of microwave signals in the frequency range of 0.01-20 GHz using a Fabry-Perot filter. Journal of Physics: Conference Series, 2011, 274, 012014.	0.4	0
101	Incoherent fibre supercontinuum generation for all-optical random number generation. , 2011, , .		0
102	Square-wave oscillations with different duty cycles. , 2011, , .		0
103	Optoelectronic phase noise system designed for microwaves photonics sources measurements in metrology application. Proceedings of SPIE, 2011, , .	0.8	1
104	Compact optoelectronic oscillator using whispering gallery mode resonators for radio-frequency and millimeter wave generation. Proceedings of SPIE, 2011, , .	0.8	0
105	Resonance measurements techniques of optical whispering gallery mode mini-disc resonators for microwave photonics applications. Proceedings of SPIE, 2011, , .	0.8	0
106	Computational performance of a single bandpass electro-optic delay oscillator. , 2011, , .		0
107	Multiple delay nonlinear wavelength dynamics for photonic Reservoir Computing. , 2011, , .		0
108	Discriminating chaotic and stochastic dynamics in an optoelectronic oscillator with delayed feedback. , 2011, , .		0

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109	Compact optoelectronic oscillators using WGM modes on fused silica and MgF ₂ mini-disks resonators. Proceedings of SPIE, 2010, , .	0.8	1
110	Nonlinear Delayed Differential Optical Phase Feedback For High Performance Chaos Communications. , 2010, , .		0
111	Nonlocal Nonlinear Electro-Optic Phase Dynamics Demonstrating 10 Gb/s Chaos Communications. IEEE Journal of Quantum Electronics, 2010, 46, 1430-1435.	1.9	151
112	Optoelectronic chaos. Nature, 2010, 465, 41-42.	27.8	137
113	Chaotic optical phase generated by electro-optic and optoelectronic nonlinear and nonlocal delayed feedback: Successful field experiment at 10 Gb/s. , 2010, , .		0
114	Microwave photonic filter tuning by varying the optical link length. , 2010, , .		0
115	Noise analysis of the opto-electronic microwave oscillator (OEO). , 2010, , .		0
116	Magnesium Fluoride Whispering Gallery Mode Disk-Resonators for Microwave Photonics Applications. IEEE Photonics Technology Letters, 2010, , .	2.5	18
117	Compact optoelectronic microwave oscillators using ultra-high Q whispering gallery mode disk-resonators and phase modulation. Optics Express, 2010, 18, 22358.	3.4	159
118	Effect of Fiber Dispersion on Broadband Chaos Communications Implemented by Electro-Optic Nonlinear Delay Phase Dynamics. Journal of Lightwave Technology, 2010, 28, 2688-2696.	4.6	41
119	Contribution of Laser Frequency and Power Fluctuations to the Microwave Phase Noise of Optoelectronic Oscillators. Journal of Lightwave Technology, 2010, 28, 2730-2735.	4.6	85
120	Investigation in compact optoelectronic oscillator with mini-disk resonator. , 2010, , .		0
121	Electro-optic delay oscillator with nonlocal nonlinearity: Optical phase dynamics, chaos, and synchronization. Physical Review E, 2009, 80, 026207.	2.1	77
122	GHz micro-modulators for telecommunications based on SrBaNb ₂ O ₆ and KTaNbO ₃ bulk crystals. , 2009, , .		0
123	Routes to chaos and multiple time scale dynamics in broadband bandpass nonlinear delay electro-optic oscillators. Physical Review E, 2009, 79, 026208.	2.1	116
124	10 GHz ultralow jitter optical pulse stream generated by optoelectronic delay oscillators with soliton compression. , 2009, , .		0
125	Electro-optic nonlinear phase dynamics, chaos generation, and cancellation. , 2009, , .		0
126	Generation of Ultralow Jitter Optical Pulses Using Optoelectronic Oscillators With Time-Lens Soliton-Assisted Compression. Journal of Lightwave Technology, 2009, 27, 5160-5167.	4.6	95

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127	Determination of Phase Noise Spectra in Optoelectronic Microwave Oscillators: A Langevin Approach. IEEE Journal of Quantum Electronics, 2009, 45, 178-186.	1.9	69
128	Measurement of the laser relative intensity noise. , 2009, , .		4
129	PHASE AND FREQUENCY NOISE METROLOGY. , 2009, , .		1
130	Optical Mini-Disk Resonator Integrated into a Compact Optoelectronic Oscillator. Acta Physica Polonica A, 2009, 116, 661-663.	0.5	9
131	Applications of the optical fiber to the generation and measurement of low-phase-noise microwave signals. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 2140.	2.1	38
132	Effects of gain and bandwidth on the multimode behavior of optoelectronic microwave oscillators. Optics Express, 2008, 16, 9067.	3.4	34
133	Nonlinear Dynamics and Spectral Stability of Optoelectronic Microwave Oscillators. IEEE Journal of Quantum Electronics, 2008, 44, 858-866.	1.9	76
134	Security Improvement for CSK via Breaking Time Correlation among State Variables. , 2008, , .		0
135	Synchronisation and communication with regularly clocked optoelectronic discrete time chaos. Electronics Letters, 2008, 44, 764.	1.0	5
136	Experimental chaotic map generated by picosecond laser pulse-seeded electro-optic nonlinear delay dynamics. Chaos, 2008, 18, 013110.	2.5	7
137	Time delay extraction in chaotic cryptosystems based on optoelectronic feedback with variable delay. , 2008, , .		3
138	Optimised one-step compression of femtosecond fibre laser soliton pulses around 1550nm to below 30fs in highly nonlinear fibre. Electronics Letters, 2007, 43, 915.	1.0	12
139	Dynamical instabilities in opto-electronic ultra-pure microwave generators. , 2007, , .		0
140	Versatile and robust chaos synchronization phenomena imposed by delayed shared feedback coupling. Physical Review E, 2007, 76, 045201.	2.1	44
141	Nonlinear dynamics reconstruction of chaotic cryptosystems based on delayed optoelectronic feedback. , 2007, , .		1
142	Dynamic instabilities of microwaves generated with optoelectronic oscillators. Optics Letters, 2007, 32, 2571.	3.3	115
143	RF-Interferences Generate Chaotic GHz FM Carrier for Communications. IEEE Journal of Quantum Electronics, 2007, 43, 426-433.	1.9	3
144	Influence of digitisation on master-slave synchronisation in chaos-encrypted data transmission. IET Optoelectronics, 2007, 1, 3-8.	3.3	2

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145	Realization of a Phase Noise Measurement Bench Using Cross Correlation and Double Optical Delay Line. Acta Physica Polonica A, 2007, 112, 1107-1111.	0.5	19
146	Optoelectronic delay dynamics: from optical chaos communication to high purity microwave oscillators. Annales De Physique, 2007, 32, 39-44.	0.2	0
147	DELAYED OPTOELECTRONIC RF-INTERFERENCES FOR CHAOS COMMUNICATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 347-352.	0.4	0
148	FAST-SCALE HYPERCHAOS ON TOP OF SLOW-SCALE PERIODICITY IN DELAYED DYNAMICAL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 365-370.	0.4	0
149	Security of Y-00 under heterodyne measurement and fast correlation attack. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 406-410.	2.1	33
150	Parabolic pulse generation in comb-like profiled dispersion decreasing fibre. Electronics Letters, 2006, 42, 965.	1.0	54
151	Delay-time identification in chaotic optical systems with two delays. , 2006, , .		7
152	Cryptanalysis of Y-00 under Heterodyne Measurement and Fast Correlation Attack.. , 2006, , .		1
153	Fast-Scale Chaos on Top of Slow-Scale Periodicity in Semiconductor Lasers with Electro-Optical Feedback. , 2006, , .		0
154	Effect of chaotic noise on the performance of optical chaos cryptosystems. , 2005, , .		0
155	Chaos-based communications at high bit rates using commercial fibre-optic links. Nature, 2005, 438, 343-346.	27.8	1,365
156	Mismatch-induced bit error rate in optical chaos communications using semiconductor lasers with electrooptical feedback. IEEE Journal of Quantum Electronics, 2005, 41, 156-163.	1.9	45
157	From Flow to Map in an Experimental High-Dimensional Electro-Optic Nonlinear Delay Oscillator. Physical Review Letters, 2005, 95, 043903.	7.8	33
158	Time delay identification in chaotic cryptosystems ruled by delay-differential equations. Journal of Optical Technology (A Translation of Opticheski Zhurnal), 2005, 72, 373.	0.4	71
159	Optoelectronic phase chaos generator for secure communication. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Overl	0.4	8
160	Chaotic Breathers in Delayed Electro-Optical Systems. Physical Review Letters, 2005, 95, 203903.	7.8	127
161	Optical chaos communications (Invited Paper). , 2005, , .		1
162	MODELLING NONLINEAR OPTICS PHENOMENA USING DELAY DIFFERENTIAL EQUATIONS. , 2005, , .		1

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163	Effect of parameter mismatch on the synchronization of chaotic semiconductor lasers with electro-optical feedback. <i>Physical Review E</i> , 2004, 69, 056226.	2.1	41
164	Subcritical Hopf bifurcation in dynamical systems described by a scalar nonlinear delay differential equation. <i>Physical Review E</i> , 2004, 69, 036210.	2.1	49
165	Ikeda-based nonlinear delayed dynamics for application to secure optical transmission systems using chaos. <i>Comptes Rendus Physique</i> , 2004, 5, 669-681.	0.9	58
166	Encryption using chaotic dynamics for optical telecommunications. <i>Comptes Rendus Physique</i> , 2004, 5, 609-611.	0.9	62
167	Ikeda Hopf bifurcation revisited. <i>Physica D: Nonlinear Phenomena</i> , 2004, 194, 49-64.	2.8	42
168	Electro-optical chaos for multi-10 Gbit/s optical transmissions. <i>Electronics Letters</i> , 2004, 40, 898.	1.0	67
169	Demonstration of a chaos generator with two time delays. <i>Optics Letters</i> , 2004, 29, 325.	3.3	24
170	Chaotic Oscillations of the Optical Phase for Multigigahertz-Bandwidth Secure Communications. <i>IEEE Journal of Quantum Electronics</i> , 2004, 40, 294-298.	1.9	17
171	From Ikeda ring cavity to optoelectronic setups dedicated to chaos-based secure communications. , 2004, 5452, 381.		0
172	Electro-optic nonlinear oscillator for ultra-fast secure chaos communication. , 2004, , .		0
173	Cracking chaos-based encryption systems ruled by nonlinear time delay differential equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 308, 54-60.	2.1	97
174	Communicating with hyperchaos: The dynamics of a DNLF emitter and recovery of transmitted information. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2003, 95, 114-118.	0.6	91
175	Transmission system using chaotic delays between lightwaves. <i>IEEE Journal of Quantum Electronics</i> , 2003, 39, 931-935.	1.9	29
176	General architecture for opto-electronic oscillators dedicated to high speed chaos encryption system. , 2003, , .		0
177	Laser cryptography by optical chaos. , 2003, 5135, 14.		1
178	Optoelectronic devices for optical chaos communications. , 2003, 5248, 24.		3
179	Bandpass chaotic dynamics of electronic oscillator operating with delayed nonlinear feedback. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002, 49, 1006-1009.	0.1	31
180	Optical communication with synchronized hyperchaos generated electrooptically. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 1178-1183.	1.9	119

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181	Chaos in coherence modulation: bifurcations of an oscillator generating optical delay fluctuations. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1063.	2.1	17
182	Chaos shift keying with an optoelectronic encryption system using chaos in wavelength. IEEE Journal of Quantum Electronics, 2001, 37, 849-855.	1.9	42
183	Radio transmission system using FM high dimensional chaotic oscillator. Electronics Letters, 2001, 37, 594.	1.0	11
184	Dynamics of non-linear feedback systems with short time-delays. Optics Communications, 2001, 195, 187-196.	2.1	8
185	Communicating with Optical Hyperchaos: Information Encryption and Decryption in Delayed Nonlinear Feedback Systems. Physical Review Letters, 2001, 86, 1892-1895.	7.8	59
186	Chaotic dynamics of oscillators based on circuits with VCO and nonlinear delayed feedback. Electronics Letters, 2000, 36, 199.	1.0	12
187	<title>Secure optical telecommunications using chaos in wavelength for signal transmissions</title>. , 1999, , .		0
188	Chaotic oscillator in wavelength: a new setup for investigating differential difference equations describing nonlinear dynamics. IEEE Journal of Quantum Electronics, 1998, 34, 594-601.	1.9	51
189	Chaos in wavelength with a feedback tunable laser diode. Physical Review E, 1998, 57, 2795-2798.	2.1	57
190	Optical Cryptosystem Based on Synchronization of Hyperchaos Generated by a Delayed Feedback Tunable Laser Diode. Physical Review Letters, 1998, 80, 2249-2252.	7.8	419
191	Optical encryption system using hyperchaos generated by an optoelectronic wavelength oscillator. Physical Review E, 1998, 57, 6618-6624.	2.1	94
192	Secure optical telecommunications using chaos in wavelength for signal transmission. , 1997, , .		1
193	Demonstration of multistability and chaos in wavelength in tunable laser diodes. , 0, , .		0
194	Optical communications using synchronized hyperchaos. , 0, , .		0
195	Super and sub-critical Hopf bifurcation leading to chaos: theory and experiments. , 0, , .		0
196	Hyperchaotic breathers in semiconductor lasers with electro-optical feedback. , 0, , .		0
197	Electro-optic chaotic mapping for physical layer encryption. , 0, , .		0
198	Optoelectronic RF-interferometer for chaos-based secure radiocommunications. , 0, , .		0

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199	Influence of mismatch noise on the bit error-rate performance of an optical chaos cryptosystem. , 0, , .		0
200	Route to chaos in an opto-electronic system. , 0, , .		1
201	Stochastic Nonlinear Time Series Forecasting Using Time-Delay Reservoir Computers: Performance and Universality. SSRN Electronic Journal, 0, , .	0.4	1
202	Femtosecond laser preforming of millimeter-scale whispering gallery mode resonant disks from crystalline substrate. , 0, , .		0