

Fan-Yi Lin

List of Publications by Year in descending order

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52
papers

1,724
citations

394421

19
h-index

265206

42
g-index

52
all docs

52
docs citations

52
times ranked

693
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaotic Lidar. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 991-997.	2.9	321
2	Chaotic radar using nonlinear laser dynamics. IEEE Journal of Quantum Electronics, 2004, 40, 815-820.	1.9	238
3	Nonlinear dynamics of a semiconductor laser with delayed negative optoelectronic feedback. IEEE Journal of Quantum Electronics, 2003, 39, 562-568.	1.9	104
4	Photonic Generation of Broadly Tunable Microwave Signals Utilizing a Dual-Beam Optically Injected Semiconductor Laser. IEEE Photonics Journal, 2011, 3, 644-650.	2.0	104
5	Effective Bandwidths of Broadband Chaotic Signals. IEEE Journal of Quantum Electronics, 2012, 48, 1010-1014.	1.9	98
6	3D pulsed chaos lidar system. Optics Express, 2018, 26, 12230.	3.4	72
7	Chaos time delay signature suppression and bandwidth enhancement by electrical heterodyning. Optics Express, 2015, 23, 2308.	3.4	64
8	Diverse waveform generation using semiconductor lasers for radar and microwave applications. IEEE Journal of Quantum Electronics, 2004, 40, 682-689.	1.9	56
9	Ambiguity functions of laser-based chaotic radar. IEEE Journal of Quantum Electronics, 2004, 40, 1732-1738.	1.9	53
10	Dual-frequency laser Doppler velocimeter for speckle noise reduction and coherence enhancement. Optics Express, 2012, 20, 20255.	3.4	52
11	Microwave-frequency-comb generation utilizing a semiconductor laser subject to optical pulse injection from an optoelectronic feedback laser. Optics Letters, 2009, 34, 1636.	3.3	41
12	Chaotic communication in radio-over-fiber transmission based on optoelectronic feedback semiconductor lasers. Optics Express, 2007, 15, 302.	3.4	40
13	Noise suppressions in synchronized chaos lidars. Optics Express, 2010, 18, 26155.	3.4	40
14	Ultra broadband microwave frequency combs generated by an optical pulse-injected semiconductor laser. Optics Express, 2009, 17, 18596.	3.4	38
15	Self-mixing dual-frequency laser Doppler velocimeter. Optics Express, 2014, 22, 3600.	3.4	37
16	Stability of period-one (P1) oscillations generated by semiconductor lasers subject to optical injection or optical feedback. Optics Express, 2017, 25, 25523.	3.4	32
17	Nonlinear Dynamics of Semiconductor Lasers Under Repetitive Optical Pulse Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 604-611.	2.9	30
18	Dynamical characteristics and their applications of semiconductor lasers subject to both optical injection and optical feedback. Optics Express, 2013, 21, 23568.	3.4	26

#	ARTICLE	IF	CITATIONS
19	Multimode optical feedback dynamics in InAs/GaAs quantum dot lasers emitting exclusively on ground or excited states: transition from short- to long-delay regimes. Optics Express, 2018, 26, 1743.	3.4	23
20	Generation of Uncorrelated Multichannel Chaos by Electrical Heterodyning for Multiple-Input Multiple-Output Chaos Radar Application. IEEE Photonics Journal, 2016, 8, 1-14.	2.0	18
21	Comparison of optical feedback dynamics of InAs/GaAs quantum-dot lasers emitting solely on ground or excited states. Optics Letters, 2018, 43, 210.	3.3	18
22	Demonstration of ultra-wideband (UWB) over fiber based on optical pulse-injected semiconductor laser. Optics Express, 2010, 18, 9664.	3.4	16
23	Dynamical Characteristics of a Dual-Beam Optically Injected Semiconductor Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500606-1500606.	2.9	16
24	Long-range parametric amplification of THz wave with absorption loss exceeding parametric gain. Optics Express, 2013, 21, 2452.	3.4	15
25	Linewidth enhancement factor in semiconductor lasers subject to various external optical feedback conditions. Optics Express, 2014, 22, 5651.	3.4	15
26	Experimental generation and analysis of chaos-modulated pulses for pulsed chaos lidar applications based on gain-switched semiconductor lasers subject to optical feedback. Optics Express, 2018, 26, 20851.	3.4	15
27	Dynamic and nonlinear properties of epitaxial quantum-dot lasers on silicon operating under long- and short-cavity feedback conditions for photonic integrated circuits. Physical Review A, 2021, 103, .	2.5	15
28	3D chaos lidar system with a pulsed master oscillator power amplifier scheme. Optics Express, 2021, 29, 27871.	3.4	15
29	Four-wave mixing analysis of quantum dot semiconductor lasers for linewidth enhancement factor extraction. Optics Express, 2012, 20, 101.	3.4	14
30	Generations of chaos-modulated pulses based on a gain-switched semiconductor laser subject to delay-synchronized optical feedback for pulsed chaos lidar applications. Optics Express, 2020, 28, 24037.	3.4	14
31	High-speed 3D imaging using a chaos lidar system. European Physical Journal: Special Topics, 2022, 231, 435-441.	2.6	13
32	Forward and backward THz-wave difference frequency generations from a rectangular nonlinear waveguide. Optics Express, 2011, 19, 24577.	3.4	12
33	Demonstration of arbitrary channel selection utilizing a pulse-injected semiconductor laser with a phase-locked loop. Optics Express, 2011, 19, 1057.	3.4	9
34	Nondegenerate Four-Wave Mixing in a Dual-Mode Injection-Locked InAs/InP(100) Nanostructure Laser. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	9
35	Speckle noise reduction of a dual-frequency laser Doppler velocimeter based on an optically injected semiconductor laser. Proceedings of SPIE, 2012, , .	0.8	8
36	Four-wave mixing analysis on injection-locked quantum dot semiconductor lasers. Optics Express, 2013, 21, 21242.	3.4	8

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37	High-frequency microwave signal generation in a semiconductor laser under double injection locking. Proceedings of SPIE, 2011, , .	0.8	6
38	Single-sideband photonic microwave generation with an optically injected quantum-dot semiconductor laser. Optics Express, 2016, 24, 30537.	3.4	6
39	3-D Multi-Input Multi-Output (MIMO) Pulsed Chaos Lidar Based on Time-Division Multiplexing. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-9.	2.9	6
40	Generation of random on-off modulation pulses by optically injecting a gain-switched Fabry-Pérot semiconductor laser with a dual-mode injection for random-modulation pulsed lidar applications. Optics Express, 2018, 26, 24294.	3.4	4
41	Nonlinear dynamic characteristics of pulse injected semiconductor lasers. Proceedings of SPIE, 2007, , .	0.8	1
42	Dynamical characteristics of a semiconductor laser injected by optical pulses with high repetition rate. , 2008, , .		1
43	Four-wave mixing analysis of quantum dot and quantum well lasers. Proceedings of SPIE, 2011, , .	0.8	1
44	Frequency multiplication and division in a DC-offset optical pulse injected semiconductor laser. , 2009, , .		0
45	Characteristics of the frequency-locked states generated by a semiconductor laser under periodical optical injection and their applications in frequency conversion. Proceedings of SPIE, 2009, , .	0.8	0
46	Noise suppressions in chaotic lidars under different synchronization schemes. , 2010, , .		0
47	Noise suppressions in synchronized chaotic lidars. Proceedings of SPIE, 2011, , .	0.8	0
48	Demonstration of arbitrary channel selection utilizing a pulse-injected double phase-locked semiconductor laser. , 2011, , .		0
49	Investigation of linewidth enhancement factor in injection-locked quantum dot lasers with four-wave mixing analysis. , 2013, , .		0
50	Generation of uncorrelated multi-channel chaos from a single chaotic laser for MIMO chaos radar. , 2016, , .		0
51	Comparison of the linewidths of photonic microwave signals generated by semiconductor lasers subject to optical injection and optical feedback. , 2016, , .		0
52	Recent advances in InAs/GaAs quantum dot lasers with short optical feedback. , 2018, , .		0