Jia-Ming Liu

List of Publications by Year
in descending order

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75 papers	3,274 citations	172207 29 h-index	155451 55 g-index
76 all docs	76 docs citations	76 times ranked	1760 citing authors

#	Article	IF	Citations
1	Effects of Linewidth Enhancement Factor on the Microwave Linewidth of the Period-one Oscillations of Optically Injected Semiconductor Lasers. Optics Letters, 2022, 47, 1166-1169.	1.7	2
2	Ultra-broadband supercontinuum covering a spectrum from visible to mid-infrared generated by high-power and ultrashort noise-like pulses. Optics Express, 2021, 29, 26775.	1.7	9
3	Linewidth characteristics of period-one dynamics induced by optically injected semiconductor lasers. Optics Express, 2020, 28, 14677.	1.7	10
4	Suppression of Intensity and Frequency Noise at Low-Sensitivity Operating Points of Period-One Dynamics of Optically Injected Semiconductor Lasers. IEEE Access, 2019, 7, 90357-90367.	2.6	3
5	High-power, octave-spanning supercontinuum generation in highly nonlinear fibers using noise-like and well-defined pump optical pulses. OSA Continuum, 2018, 1, 851.	1.8	16
6	Mesoscopic chaos mediated by Drude electron-hole plasma in silicon optomechanical oscillators. Nature Communications, 2017, 8, 15570.	5.8	47
7	Family of graphene-assisted resonant surface optical excitations for terahertz devices. Scientific Reports, 2016, 6, 35467.	1.6	4
8	Dispersion of Surface Plasmon Polaritons on a Metallic Grating. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 244-250.	1.9	4
9	Adaptive outer synchronization of delay-coupled nonidentical complex networks in the presence of intrinsic time delay and circumstance noise. Nonlinear Dynamics, 2015, 80, 117-128.	2.7	8
10	Fiber dispersion effects in injection-locked optical OFDM systems. Optical and Quantum Electronics, 2015, 47, 3091-3100.	1.5	0
11	Deep brain light stimulation effects on glutamate and dopamine concentration. Biomedical Optics Express, 2015, 6, 23.	1.5	11
12	High-power noise-like pulse generation using a 156-Âµm all-fiber laser system. Optics Express, 2015, 23, 18256.	1.7	24
13	Stable Periodic Dynamics of Reduced Sensitivity to Perturbations in Optically Injected Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 601-608.	1.9	11
14	Tunable Oscillations in Optically Injected Semiconductor Lasers With Reduced Sensitivity to Perturbations. Journal of Lightwave Technology, 2014, 32, 3749-3758.	2.7	15
15	Generation of an octave-spanning supercontinuum in highly nonlinear fibers pumped by noise-like pulses. Proceedings of SPIE, 2014, , .	0.8	0
16	Symbolic dynamics-based error analysis on chaos synchronization via noisy channels. Physical Review E, 2014, 90, 012908.	0.8	5
17	Frequency-stabilized limit-cycle dynamics of an optically injected semiconductor laser. Applied Physics Letters, 2014, 105, 011122.	1.5	9
18	Terahertz Frequency-Dependent Carrier Scattering Rate and Mobility of Monolayer and AA-Stacked Multilayer Graphene. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 122-129.	1.9	12

#	Article	IF	Citations
19	Effects of the Gain Saturation Factor on the Nonlinear Dynamics of Optically Injected Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2014, 50, 158-165.	1.0	14
20	Limit-Cycle Dynamics with Reduced Sensitivity to Perturbations. Physical Review Letters, 2014, 112, 023901.	2.9	63
21	Harmonic Analysis of Limit-Cycle Oscillations of an Optically Injected Semiconductor Laser. IEEE Journal of Quantum Electronics, 2014, 50, 1-8.	1.0	3
22	Supercontinuum generation in highly nonlinear fibers using amplified noise-like optical pulses. Optics Express, 2014, 22, 4152.	1.7	89
23	Enhanced graphene plasmon waveguiding in a layered grapheneâ^'metal structure. Applied Physics Letters, 2014, 105, .	1.5	12
24	Optimization of double-layer graphene plasmonic waveguides. Applied Physics Letters, 2014, 105, 061116.	1.5	8
25	Terahertz Optoelectronic Property of Graphene: Substrate-Induced Effects on Plasmonic Characteristics. Applied Sciences (Switzerland), 2014, 4, 28-41.	1.3	26
26	Plasmonics in Topological Insulators. Nanomaterials and Nanotechnology, 2014, 4, 13.	1.2	27
27	Extremely confined terahertz surface plasmon-polaritons in graphene-metal structures. Applied Physics Letters, 2013, 103, .	1.5	82
28	Surface polar optical phonon scattering of carriers in graphene on various substrates. Applied Physics Letters, 2013, 103, .	1.5	41
29	Dynamical Characteristics of a Dual-Beam Optically Injected Semiconductor Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500606-1500606.	1.9	16
30	Injection-locked optical orthogonal frequency-division multiplexing for radio-over-fiber communications. , 2013, , .		0
31	Dynamics Maps and Scenario Transitions for a Semiconductor Laser Subject to Dual-Beam Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1501108-1501108.	1.9	13
32	Broadband Transmission Over Injection-Locked Optical OFDM Systems: Theory and Design. Journal of Optical Communications and Networking, 2013, 5, 475.	3.3	2
33	Linewidth Sharpening via Polarization-Rotated Feedback in Optically Injected Semiconductor Laser Oscillators. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500807-1500807.	1.9	64
34	Coupled surface plasmon modes of graphene in close proximity to a plasma layer. Applied Physics Letters, 2013, 103, 201104.	1.5	13
35	Terahertz optical properties of multilayer graphene: Experimental observation of strong dependence on stacking arrangements and misorientation angles. Physical Review B, 2012, 86, .	1.1	38
36	Tunable photonic microwave oscillator self-locked by polarization-rotated optical feedback. , 2012, , .		6

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37	Dynamics Scenarios of Dual-Beam Optically Injected Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2011, 47, 762-769.	1.0	38
38	Photonic Microwave Applications of the Dynamics of Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1198-1211.	1.9	135
39	Semiconductor Laser Dynamics for Novel Applications. Understanding Complex Systems, 2009, , 341-354.	0.3	5
40	Novel photonic applications of nonlinear semiconductor laser dynamics. Optical and Quantum Electronics, 2008, 40, 83-95.	1.5	26
41	Depletion dynamics for stimulated emission depletion (STED) microscopy. , 2008, , .		0
42	Radio-over-fiber transmission from an optically injected semiconductor laser in period-one state. , 2007, , .		11
43	Optical generation of a precise microwave frequency comb by harmonic frequency locking. Optics Letters, 2007, 32, 1917.	1.7	53
44	Multistability in a semiconductor laser with optoelectronic feedback. Optics Express, 2007, 15, 572.	1.7	42
45	Period-one oscillation for photonic microwave transmission using an optically injected semiconductor laser. Optics Express, 2007, 15, 14921.	1.7	185
46	Dual-frequency multifunction lidar. , 2007, , .		1
47	Frequency Modulation on Single Sideband Using Controlled Dynamics of an Optically Injected Semiconductor Laser. IEEE Journal of Quantum Electronics, 2006, 42, 699-705.	1.0	43
48	Synchronization properties of two self-oscillating semiconductor lasers subject to delayed optoelectronic mutual coupling. Physical Review E, 2006, 73, 047201.	0.8	46
49	Radio-over-fiber AM-to-FM upconversion using an optically injected semiconductor laser. Optics Letters, 2006, 31, 2254.	1.7	93
50	Lidar detection using a dual-frequency source. Optics Letters, 2006, 31, 3600.	1.7	88
51	Synchronization of mutually coupled systems. Optics Communications, 2006, 261, 86-90.	1.0	16
52	Performance of Synchronized Chaotic Optical Communication Systems. , 2006, , 341-378.		2
53	Dynamics and Synchronization of Semiconductor Lasers for Chaotic Optical Communications. , 2006, , 285-340.		2
54	Complete phase and amplitude synchronization of broadband chaotic optical fields generated by semiconductor lasers subject to optical injection. Physical Review E, 2005, 71, 046216.	0.8	16

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55	Bidirectional synchronization of semiconductor lasers with optoelectronic feedback. , 2005, , .		0
56	Microwave frequency division and multiplication using an optically injected semiconductor laser. IEEE Journal of Quantum Electronics, 2005, 41, 1142-1147.	1.0	53
57	Experimental synchronization of mutually coupled semiconductor lasers with optoelectronic feedback. IEEE Journal of Quantum Electronics, 2005, 41, 1333-1340.	1.0	35
58	Doppler Lidar Using Coherently Locked Dual Frequencies. , 2005, , .		0
59	Microwave Frequency Switching of an Optically Injected Semiconductor Laser. , 2005, , .		0
60	Dynamics of semiconductor lasers with bidirectional optoelectronic coupling: Stability, route to chaos, and entrainment. Physical Review E, 2004, 70, 046216.	0.8	21
61	Characteristics of Period-One Oscillations in Semiconductor Lasers Subject to Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 974-981.	1.9	118
62	Tunable Narrow-Linewidth Photonic Microwave Generation Using Semiconductor Laser Dynamics. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 1025-1032.	1.9	134
63	Nonlinear Dynamics of Semiconductor Lasers With Mutual Optoelectronic Coupling. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 936-943.	1.9	43
64	Chaotic communications using synchronized semiconductor lasers with optoelectronic feedback. Comptes Rendus Physique, 2004, 5, 657-668.	0.3	9
65	Chaotic Lidar. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 991-997.	1.9	321
66	Chaotic radar using nonlinear laser dynamics. IEEE Journal of Quantum Electronics, 2004, 40, 815-820.	1.0	238
67	Diverse waveform generation using semiconductor lasers for radar and microwave applications. IEEE Journal of Quantum Electronics, 2004, 40, 682-689.	1.0	56
68	Ambiguity functions of laser-based chaotic radar. IEEE Journal of Quantum Electronics, 2004, 40, 1732-1738.	1.0	53
69	Unidirectionally coupled synchronization of optically injected semiconductor lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 918-926.	1.9	11
70	Injection locking and synchronization of periodic and chaotic signals in semiconductor lasers. IEEE Journal of Quantum Electronics, 2003, 39, 269-278.	1.0	49
71	Nonlinear dynamics of a semiconductor laser with delayed negative optoelectronic feedback. IEEE Journal of Quantum Electronics, 2003, 39, 562-568.	1.0	104
72	Effects of message encoding and decoding on synchronized chaotic optical communications. IEEE Journal of Quantum Electronics, 2003, 39, 1468-1474.	1.0	25

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73	Dynamical properties of semiconductor lasers subject to optoelectronic feedback and bidirectional coupling. , 2003, , .		0
74	Synchronized chaotic optical communications at high bit rates. IEEE Journal of Quantum Electronics, 2002, 38, 1184-1196.	1.0	135
75	Four-wave mixing and optical modulation in a semiconductor laser. IEEE Journal of Quantum Electronics, 1994, 30, 957-965.	1.0	145