K A Shore

List of Publications by Year
in descending order

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77 papers	1,906 citations	361413 20 h-index	254184 43 g-index
78 all docs	78 docs citations	78 times ranked	863 citing authors

#	Article	IF	Citations
1	Physics and applications of laser diode chaos. Nature Photonics, 2015, 9, 151-162.	31.4	522
2	Experimental Demonstration of Anticipating Synchronization in Chaotic Semiconductor Lasers with Optical Feedback. Physical Review Letters, 2001, 87, 154101.	7.8	192
3	Demonstration of optical synchronization of chaotic external-cavity laser diodes. Optics Letters, 1999, 24, 466.	3.3	162
4	Signal masking for chaotic optical communication using external-cavity diode lasers. Optics Letters, 1999, 24, 1200.	3.3	142
5	Generalized synchronization in time-delayed systems. Physical Review E, 2005, 71, 016201.	2.1	61
6	Control of surfaceâ€emitting laser diodes by modulating the distributed Bragg mirror reflectivity: Smallâ€signal analysis. Applied Physics Letters, 1993, 63, 2460-2462.	3.3	47
7	Nonlinear dynamics of semiconductor lasers with feedback and modulation. Optics Express, 2010, 18, 16955.	3.4	41
8	Dynamical and noise properties of laser diodes subject to strong optical feedback. Optics Letters, 1994, 19, 2137.	3.3	40
9	Nonlinear dynamics of a laser diode subjected to both optical and electronic feedback. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 200.	2.1	39
10	Inverse anticipating chaos synchronization. Physical Review E, 2002, 66, 017204.	2.1	34
11	Transverse-mode selection in external-cavity vertical-cavity surface-emitting laser diodes. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2477.	2.1	33
12	Correlation dimension signature of wideband chaos synchronization of semiconductor lasers. Optics Letters, 2006, 31, 20.	3.3	32
13	Carrier transport and intersubband population inversion in coupled quantum wells. Applied Physics Letters, 1993, 63, 1089-1091.	3.3	31
14	Parameter mismatches and perfect anticipating synchronization in bidirectionally coupled external cavity laser diodes. Physical Review E, 2002, 66, 017206.	2.1	30
15	Experimental verification of the synchronization condition for chaotic external cavity diode lasers. Physical Review E, 2000, 62, 7505-7507.	2.1	27
16	Lag times and parameter mismatches in synchronization of unidirectionally coupled chaotic external cavity semiconductor lasers. Physical Review E, 2002, 66, 037202.	2.1	25
17	Cascaded synchronization of external-cavity laser diodes. Optics Letters, 2001, 26, 253.	3.3	22
18	Chaos and synchronization of self-pulsating laser diodes. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 166.	2.1	22

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19	Threshold current density calculations for far-infrared semiconductor lasers. Semiconductor Science and Technology, 1994, 9, 1190-1197.	2.0	21
20	Multimode iterative analysis of the dynamic and noise properties of laser diodes subject to optical feedback. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1997, 9, 819-830.	0.9	21
21	Semiconductor laser bistable operation with an adjustable trigger. Optical and Quantum Electronics, 1982, 14, 321-326.	3.3	20
22	Self-consistent analysis of the dc modulation response of unipolar semiconductor lasers. Journal of Modern Optics, 1998, 45, 1219-1229.	1.3	20
23	Critical signal strength for effective decoding in diode laser chaotic optical communications. Physical Review E, 2000, 61, 5997-5999.	2.1	20
24	Controlling dynamics in external-cavity laser diodes with electronic impulsive delayed feedback. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 551.	2.1	19
25	Optically induced spatial instability in twin-stripe-geometry lasers. Optical and Quantum Electronics, 1982, 14, 177-181.	3.3	17
26	Flat Broadband Chaos in Vertical-Cavity Surface-Emitting Lasers Subject to Chaotic Optical Injection. IEEE Journal of Quantum Electronics, 2012, 48, 1536-1541.	1.9	17
27	Diffusion and waveguiding effects in twin-stripe injection lasers. Optical and Quantum Electronics, 1982, 14, 169-176.	3.3	15
28	Piezoelectric field effects in InGaAs (111)B quantum wells. Applied Physics Letters, 1995, 67, 1393-1395.	3.3	15
29	The influence of gain compression on picosecond optical pulses in semiconductor optical amplifiers. Journal of Modern Optics, 1998, 45, 1211-1218.	1.3	15
30	Targeting periodic oscillations of external cavity laser diodes. Optics Letters, 1995, 20, 725.	3.3	14
31	Electron transport process in quantum cascade intersubband semiconductor lasers. Journal of Applied Physics, 2001, 89, 2001-2005.	2.5	14
32	Nullified time-of-flight lead-lag in synchronization of chaotic external-cavity laser diodes. Optics Letters, 2003, 28, 1397.	3.3	14
33	Spatial and temporal instabilities in multistripe semiconductor lasers. Journal of the Optical Society of America B: Optical Physics, 1985, 2, 237.	2.1	13
34	Effects of noise on the turn-on dynamics of a modulated class-B laser in the generalized multistability domain. Physical Review A, 1997, 55, 2426-2434.	2.5	13
35	Transition between anticipating and lag synchronization in chaotic external-cavity laser diodes. Optics Letters, 2002, 27, 1250.	3.3	13
36	Switching frequency for transverse modes in stripe-geometry injection lasers. Optical and Quantum Electronics, 1983, 15, 497-506.	3.3	12

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37	Above-threshold current leakage effects in stripe-geometry injection lasers. Optical and Quantum Electronics, 1983, 15, 371-379.	3.3	10
38	Chaos Control in External Cavity Laser Diodes using Electronic Impulsive Delayed Feedback. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1791-1799.	1.7	10
39	Constant power contours and bistability in twin-stripe injection lasers. Optical and Quantum Electronics, 1983, 15, 547-548.	3.3	9
40	Integrity of semiconductor laser chaotic communications to naÃ¯ve eavesdroppers. Optics Letters, 2000, 25, 1663.	3.3	9
41	Optimal operating conditions for external cavity semiconductor laser optical chaos communication system. Semiconductor Science and Technology, 2012, 27, 094002.	2.0	8
42	Efficient polarization insensitive four-wave mixing using a semiconductor optical amplifier and one pump source in an optical loop. Applied Physics Letters, 1999, 75, 2710-2712.	3.3	7
43	Four-wave mixing of strong picosecond optical pulses in passive semiconductor waveguides. Applied Physics Letters, 1999, 74, 2105-2107.	3.3	7
44	Optically steered twin-stripe laser beam scanner. Optical and Quantum Electronics, 1983, 15, 461-462.	3.3	6
45	Actively coupled index-guided lasers. Optical and Quantum Electronics, 1983, 15, 247-252.	3.3	6
46	Picosecond optical switching in semiconductor lasers. Optical and Quantum Electronics, 1983, 15, 549-552.	3.3	6
47	Carrier diffusion and recombination influencing gain and current profiles in planar injection lasers. Journal of Applied Physics, 1984, 56, 1293-1297.	2.5	5
48	Amplification of picosecond optical pulses in midinfrared intersubband semiconductor optical amplifiers. Applied Physics Letters, 2000, 77, 2449-2451.	3.3	5
49	Static and dynamic bifurcations in semiconductor lasers for device applications. Optical and Quantum Electronics, 1987, 19, S113-S119.	3.3	4
50	Self-consistent optical gain and threshold current calculations for near infrared intersubband semiconductor lasers. Journal of Modern Optics, 2000, 47, 1857-1870.	1.3	4
51	Near-field extinction in semiconductor lasers under optical injection. Optical and Quantum Electronics, 1984, 16, 157-164.	3.3	3
52	Self-consistent analysis of the dc modulation response of unipolar semiconductor lasers. Journal of Modern Optics, 1998, 45, 1219-1229.	1.3	3
53	Anticrossing effects in the design of MIR intersubband semiconductor lasers. Journal of Modern Optics, 2000, 47, 1791-1801.	1.3	2
54	Relative intensity noise of unipolar intersubband semiconductor lasers. Journal of Modern Optics, 2000, 47, 1825-1835.	1.3	2

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55	Anticrossing effects in the design of MIR intersubband semiconductor lasers. Journal of Modern Optics, 2000, 47, 1791-1801.	1.3	2
56	Design analysis of ultra-short cavity silver-clad semiconductor nano-lasers. , 2013, , .		1
57	Self-consistent optical gain and threshold current calculations for near infrared intersubband semiconductor lasers. Journal of Modern Optics, 2000, 47, 1857-1870.	1.3	1
58	Control of periodic orbits and steady states in external cavity laser diodes using impulsive electronic feedback. Journal of Modern Optics, 1998, 45, 1199-1210.	1.3	0
59	Design of organic semiconductor laser structures for low threshold operation. Journal of Modern Optics, 2000, 47, 1921-1932.	1.3	0
60	Mode hopping in a side-mode-injected semiconductor laser. Journal of Modern Optics, 2000, 47, 1763-1769.	1.3	0
61	Mechanisms for inducing chaos in broad and narrow linewidth external-cavity laser diodes. Journal of Modern Optics, 2000, 47, 1871-1875.	1.3	0
62	GHz Bandwidth Chaotic Optical Data Encryption Using External Cavity Diode Lasers. AIP Conference Proceedings, 2002, , .	0.4	0
63	Chaotic data encryption using semiconductor laser diodes. , 2003, , .		0
64	Quantum noise management in multi-element laser diode arrays. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S757-S761.	1.4	0
65	Chaos Synchronisation and Message Extraction in Optical Chaos Communications. AIP Conference Proceedings, 2007, , .	0.4	0
66	Low-Frequency Modulation Effects on the Polarization Dynamics of Vertical-Cavity Surface-Emitting Lasers Subject to Optical Feedback. , 2007, , .		0
67	Instabilities in semiconductor laser with optical feedback and modulation. , 2010, , .		0
68	Experimental and theoretical study of thermal effects on the dynamical hysteresis in VCSEL turn-on and turn -off. , 2010, , .		0
69	Performance optimization of electrically-injected nano-spin VCSELs. , 2011, , .		0
70	Electrically-injected nano-spin VCSELs: Design and applications. , 2011, , .		0
71	Analysis of gain properties in silver-clad nanowire lasers. , 2013, , .		0
72	Data encryption using synchronized chaotic laser diodes. , 2002, , .		0

#	Article	IF	Citations
73	MODULATION BANDWIDTH PREDICTIONS FOR INTER-SUBBAND QUANTUM WELL SEMICONDUCTOR LASERS. , 1996, , .		0
74	Transition to Pulsed Operation in Short External-Cavity FM Semiconductor Lasers. , 1999, , .		0
75	Optical Gain Calculations for 1.55Âµm Unipolar Intersubband Semiconductor Lasers. , 1999, , .		0
76	Relative intensity noise of unipolar intersubband semiconductor lasers. , 1999, , .		0
77	Self-consistent analysis of carrier transport and carrier capture dynamics in quantum cascade intersubband semiconductor lasers. , 1999, , .		0