

Krassimir Panajotov

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312
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ext. citations

2.9
avg, IF

5.33
L-index

#	Paper	IF	Citations
216	Roadmap on optical rogue waves and extreme events. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 063001	10.1	167
215	Optical feedback induces polarization mode hopping in vertical-cavity surface-emitting lasers. <i>Optics Letters</i> , 2003 , 28, 1543-5	3	127
214	Deterministic polarization chaos from a laser diode. <i>Nature Photonics</i> , 2013 , 7, 60-65	33.9	119
213	Polarization switching in VCSEL's due to thermal lensing. <i>IEEE Photonics Technology Letters</i> , 1998 , 10, 6-8	2.2	105
212	Effect of photon-energy-dependent loss and gain mechanisms on polarization switching in vertical-cavity surface-emitting lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 2106	1.7	104
211	PlaneWave Admittance Method- a novel approach for determining the electromagnetic modes in photonic structures. <i>Optics Express</i> , 2005 , 13, 3196-207	3.3	87
210	Impact of in-plane anisotropic strain on the polarization behavior of vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2000 , 77, 1590-1592	3.4	87
209	Localized structures in dissipative media: from optics to plant ecology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372,	3	77
208	Route to polarization switching induced by optical injection in vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , 2006 , 73,	2.6	72
207	Mapping of the dynamics induced by orthogonal optical injection in vertical-cavity surface-emitting lasers. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 198-207	2	70
206	Physical random bit generation from chaotic solitary laser diode. <i>Optics Express</i> , 2014 , 22, 17271-80	3.3	63
205	Influence of polarization mode competition on the synchronization of two unidirectionally coupled vertical-cavity surface-emitting lasers. <i>Optics Letters</i> , 2007 , 32, 1629-31	3	53
204	Minimal rate equations describing polarization switching in vertical-cavity surface-emitting lasers. <i>Optics Communications</i> , 2002 , 201, 129-137	2	52
203	Nonlinear dynamics accompanying polarization switching in vertical-cavity surface-emitting lasers with orthogonal optical injection. <i>Applied Physics Letters</i> , 2006 , 88, 101106	3.4	51
202	Polarization synchronization in unidirectionally coupled vertical-cavity surface-emitting lasers with orthogonal optical injection. <i>Physical Review E</i> , 2007 , 75, 056213	2.4	46
201	Experimental evidence of coherence resonance in a time-delayed bistable system. <i>Physical Review Letters</i> , 2007 , 99, 023903	7.4	41
200	Transverse Mode Switching and Locking in Vertical-Cavity Surface-Emitting Lasers Subject to Orthogonal Optical Injection. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 322-333	2	41

199	Dynamics of vertical-cavity surface-emitting lasers in the short external cavity regime: Pulse packages and polarization mode competition. <i>Physical Review A</i> , 2006 , 73,	2.6	36
198	Nonlinear polarization dynamics in directly modulated vertical-cavity surface-emitting lasers. <i>Physical Review E</i> , 2003 , 68, 016207	2.4	36
197	Linearly polarized bistable localized structure in medium-size vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , 2009 , 79,	2.6	34
196	Single mode condition and modes discrimination in photonic-crystal 1.3 μm AlInGaAs/InP VCSEL. <i>Optics Express</i> , 2007 , 15, 5604-9	3.3	34
195	Bifurcation study of regular pulse packages in laser diodes subject to optical feedback. <i>Physical Review E</i> , 2004 , 70, 036211	2.4	34
194	Polarization-mode hopping in single-mode vertical-cavity surface-emitting lasers: Theory and experiment. <i>Physical Review A</i> , 2003 , 68,	2.6	34
193	Optical Feedback in Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1700312-1700312	3.8	33
192	Frequency-induced polarization bistability in vertical-cavity surface-emitting lasers with orthogonal optical injection. <i>Physical Review A</i> , 2007 , 75,	2.6	33
191	Two-mode injection locking in vertical-cavity surface-emitting lasers. <i>Optics Letters</i> , 2005 , 30, 2903-5	3	33
190	Polarization switching induced by phase change in extremely short external cavity vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2004 , 84, 2763-2765	3.4	33
189	Ultrathin Optoelectronic Device Packaging in Flexible Carriers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 617-628	3.8	32
188	Optical-injection-induced polarization switching in polarization-bistable vertical-cavity surface-emitting lasers. <i>Journal of Applied Physics</i> , 2004 , 96, 6002-6007	2.5	32
187	Two-variable reduction of the San Miguel-Bengtsson-Moloney model for vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , 1999 , 59, 4660-4667	2.6	32
186	Modelling leaky photonic wires: A mode solver comparison. <i>Optical and Quantum Electronics</i> , 2007 , 38, 731-759	2.4	31
185	Polarization Switching Bistability and Dynamics in Vertical-Cavity Surface-Emitting Laser under Orthogonal Optical Injection. <i>Optical and Quantum Electronics</i> , 2006 , 38, 429-443	2.4	31
184	Investigation of polarization properties of VCSELs subject to optical feedback from an extremely short external cavity-part I: theoretical analysis. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 89-101	2	30
183	Recent progress on optical rogue waves in fiber lasers: status, challenges, and perspectives. <i>Advanced Photonics</i> , 2020 , 2, 1	8.1	30
182	Bifurcation to polarization switching and locking in vertical-cavity surface-emitting lasers with optical injection. <i>Physical Review A</i> , 2007 , 76,	2.6	29

181	Data transparent reconfigurable optical interconnections using polarization switching in VCSEL's induced by optical injection. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 985-987	2.2	29
180	Polarization- and Transverse-Mode Dynamics in Optically Injected and Gain-Switched Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 1473-1481	2	28
179	Comparison of different methods for rigorous modeling of photonic crystal fibers. <i>Optics Express</i> , 2006 , 14, 5699-714	3.3	28
178	Delayed feedback control of self-mobile cavity solitons. <i>Physical Review A</i> , 2013 , 88,	2.6	27
177	Bifurcation to nonlinear polarization dynamics and chaos in vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , 2013 , 87,	2.6	26
176	Leader-laggard relationship of chaos synchronization in mutually coupled vertical-cavity surface-emitting lasers with time delay. <i>Physical Review E</i> , 2009 , 79, 026210	2.4	26
175	Polarization switching and injection locking in vertical-cavity surface-emitting lasers subject to parallel optical injection. <i>Optics Letters</i> , 2016 , 41, 2664-7	3	25
174	Numerical methods for modeling photonic-crystal VCSELs. <i>Optics Express</i> , 2010 , 18, 16042-54	3.3	24
173	Spontaneous motion of cavity solitons in vertical-cavity lasers subject to optical injection and to delayed feedback. <i>European Physical Journal D</i> , 2010 , 59, 67-72	1.3	24
172	Thermally induced transmission variations in ZnSe/MgF ₂ photonic band gap structures. <i>Journal of Applied Physics</i> , 2002 , 92, 2251-2255	2.5	24
171	Two-dimensional dissipative rogue waves due to time-delayed feedback in cavity nonlinear optics. <i>Chaos</i> , 2017 , 27, 013119	3.3	23
170	Delay feedback induces a spontaneous motion of two-dimensional cavity solitons in driven semiconductor microcavities. <i>Physical Review A</i> , 2012 , 86,	2.6	23
169	. <i>IEEE Journal of Quantum Electronics</i> , 2008 , 44, 136-143	2	23
168	Chaotic behavior of cavity solitons induced by time delay feedback. <i>Optics Letters</i> , 2014 , 39, 4739-42	3	22
167	Self-pulsations and excitability in optically injected quantum-dot lasers: Impact of the excited states and spontaneous emission noise. <i>Physical Review A</i> , 2010 , 82,	2.6	22
166	Residence time distribution and coherence resonance of optical-feedback-induced polarization mode hopping in vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , 2004 , 69,	2.6	22
165	Polarization behavior of vertical-cavity surface-emitting lasers: Experiments, models and applications. <i>AIP Conference Proceedings</i> , 2001 ,	0	22
164	Fast quantum-optical random-number generators. <i>Physical Review A</i> , 2013 , 87,	2.6	21

163	Nonlinear dynamics of the polarization of multitransverse mode vertical-cavity surface-emitting lasers under current modulation. <i>Physical Review E</i> , 2007 , 76, 046206	2.4	21
162	Optimal radii of photonic crystal holes within DBR mirrors in long wavelength VCSEL. <i>Optics Express</i> , 2007 , 15, 1301-6	3.3	21
161	Coexistence of cavity solitons with different polarization states and different power peaks in all-fiber resonators. <i>Optics Letters</i> , 2017 , 42, 2750-2753	3	21
160	Spatiotemporal chaos and two-dimensional dissipative rogue waves in Lugiato-Lefever model. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	19
159	Polarization switching and polarization mode hopping in quantum dot vertical-cavity surface-emitting lasers. <i>Optics Express</i> , 2011 , 19, 2476-84	3.3	19
158	Stokes-Anti-Stokes Iterative Resonator Method for Modeling Raman Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 1144-1156	2	19
157	Experimental and theoretical investigations on elliptically polarized dynamical transition states in the polarization switching of vertical-cavity surface-emitting lasers. <i>Optics Communications</i> , 2004 , 235, 421-434	2	19
156	Switching between ground and excited states by optical feedback in a quantum dot laser diode. <i>Applied Physics Letters</i> , 2014 , 105, 121109	3.4	17
155	Impact of optical feedback on current-induced polarization behavior of 1550 nm vertical-cavity surface-emitting lasers. <i>Applied Optics</i> , 2013 , 52, 3833-7	1.7	17
154	Optimal Parameters of Photonic-Crystal Vertical-Cavity Surface-Emitting Diode Lasers. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2331-2336	4	17
153	Dissipative structures in matter out of equilibrium: from chemistry, photonics and biology, the legacy of Ilya Prigogine (part 1). <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	16
152	Cavity solitons in vertical-cavity surface-emitting lasers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372,	3	16
151	Experimental observation of localized structures in medium size VCSELs. <i>Optics Express</i> , 2014 , 22, 762-773	3.3	16
150	. <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 578-585	2	16
149	Mapping of two-polarization-mode dynamics in vertical-cavity surface-emitting lasers with optical injection. <i>Physical Review E</i> , 2009 , 80, 026218	2.4	16
148	The effects of nonlinear gain on the stability of semi-degenerate two-mode semiconductor lasers: a case study on VCSELs. <i>Optics Communications</i> , 2005 , 248, 527-534	2	16
147	Data transparent reconfigurable optical interconnections based on polarization-switching VCSELs and polarization-selective diffractive optical elements. <i>IEEE Photonics Technology Letters</i> , 1998 , 10, 973-975	3.3	16
146	Impact of the hole depth on the modal behaviour of long wavelength photonic crystal VCSELs. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2732-2735	3	15

145	Self-Replicating Spots in the Brusselator Model and Extreme Events in the One-Dimensional Case with Delay. <i>Entropy</i> , 2016 , 18, 64	2.8	15
144	Drifting cavity solitons and dissipative rogue waves induced by time-delayed feedback in Kerr optical frequency comb and in all fiber cavities. <i>Chaos</i> , 2017 , 27, 114312	3.3	14
143	Vector cavity solitons in broad area Vertical-Cavity Surface-Emitting Lasers. <i>Scientific Reports</i> , 2016 , 6, 20428	4.9	14
142	Polarization dynamics induced by parallel optical injection in a single-mode VCSEL. <i>Optics Letters</i> , 2017 , 42, 2130-2133	3	14
141	Coupled-cavity surface-emitting lasers: spectral and polarization threshold characteristics and electrooptic switching. <i>Optics Express</i> , 2010 , 18, 27525-33	3.3	14
140	Rate-equation model for coupled-cavity surface-emitting lasers. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 1646-1656	2	14
139	Impact of time-delayed feedback on spatiotemporal dynamics in the Lugiato-Lefever model. <i>Physical Review A</i> , 2016 , 93,	2.6	13
138	Phase-bistable patterns and cavity solitons induced by spatially periodic injection into vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , 2014 , 89,	2.6	13
137	VCSEL With Photo-Aligned Liquid Crystal Overlay. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1509-1512.	2.2	13
136	Impact of light polarization on chaos synchronization of mutually coupled VCSELs. <i>Optics Letters</i> , 2008 , 33, 3031-3	3	13
135	Laser Doppler velocimetry with polarization-bistable VCSELs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 1006-1012	3.8	13
134	Electrically tunable VCSEL with intra-cavity liquid crystal: Design, optimization, and analysis of polarization- and mode-stability. <i>Optics Communications</i> , 2018 , 427, 271-277	2	13
133	Strain induced polarization chaos in a solitary VCSEL. <i>Scientific Reports</i> , 2017 , 7, 14032	4.9	12
132	Self-injection-locking linewidth narrowing in a semiconductor laser coupled to an external fiber-optic ring resonator. <i>Optics Communications</i> , 2017 , 405, 253-258	2	12
131	Numerical Self-Consistent Analysis of VCSELs. <i>Advances in Optical Technologies</i> , 2012 , 2012, 1-17		12
130	Vertical-cavity surface-emitting laser with liquid crystal overlay. <i>Optics Express</i> , 2011 , 19, 16749-59	3.3	12
129	Intrinsic gain switching in optically injected quantum dot laser lasing simultaneously from the ground and excited state. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2416	1.7	12
128	Polarization Switching in Quantum-Dot Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1008-1010	2.2	12

127	Modal gain and confinement factors in top- and bottom-emitting photonic-crystal VCSEL. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 085102	3	12
126	Control of polarization switching in vertical coupled-cavities surface emitting lasers. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 365-367	2.2	12
125	Injection Locking and Polarization Switching Bistability in a 1550 nm VCSEL Subject to Parallel Optical Injection. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-10	3.8	11
124	Vertical-cavity surface-emitting laser emitting circularly polarized light. <i>Laser Physics Letters</i> , 2013 , 10, 105003	1.5	11
123	Precise Lateral Mode Control in Photonic Crystal Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2011 , 47, 1291-1296	2	11
122	Dynamics of vertical-cavity surface-emitting lasers with optical injection: a two-mode model approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 1603	1.7	11
121	Investigation of polarization properties of VCSELs subject to optical feedback from an extremely short external cavity-part II: experiments. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 102-107	2	11
120	Measurement of Temperature-Dependent Polarization Parameters in Long-Wavelength VCSELs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 636-642	3.8	10
119	Chaos synchronization in mutually coupled 1550-nm vertical-cavity surface-emitting lasers with parallel polarizations and long delay time. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 90	1.7	10
118	Polarization Dynamics of VCSELs. <i>Springer Series in Optical Sciences</i> , 2013 , 181-231	0.5	10
117	Nonlinear Dynamics of Vertical-Cavity Surface-Emitting Lasers. <i>Advances in Optical Technologies</i> , 2011 , 2011, 1-16		10
116	Optimal photonic-crystal parameters assuring single-mode operation of 1300 nm AlInGaAs vertical-cavity surface-emitting laser. <i>Journal of Applied Physics</i> , 2009 , 105, 093102	2.5	10
115	Numerical analysis of high Q-factor photonic-crystal VCSELs with plane-wave admittance method. <i>Optical and Quantum Electronics</i> , 2007 , 39, 419-426	2.4	10
114	Polarized optical feedback from an extremely short external cavity for controlling and stabilizing the polarization of vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , 2007 , 90, 121104	3.4	10
113	Synchronization of polarization chaos from a free-running VCSEL. <i>Optics Letters</i> , 2016 , 41, 4492-4495	3	10
112	Subwavelength grating as both emission mirror and electrical contact for VCSELs in any material system. <i>Scientific Reports</i> , 2017 , 7, 40348	4.9	9
111	The Vertical-Cavity Surface-Emitting Laser as a Sensing Device. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3185-3192	4	9
110	Bifurcation structure of cavity soliton dynamics in a vertical-cavity surface-emitting laser with a saturable absorber and time-delayed feedback. <i>Physical Review A</i> , 2017 , 96,	2.6	9

109	Electrical Design of High-Speed Electro-Optically Modulated Coupled-Cavity VCSELS. <i>Journal of Lightwave Technology</i> , 2011 , 29, 2992-2998	4	9
108	Comparison of Usability of Oxide Apertures and Photonic Crystals Used to Create Radial Optical Confinements in 650-nm GaInP VCSELS. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1041-1047	2	9
107	Intensity behavior underlying pulse packages in semiconductor lasers that are subject to optical feedback. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 777	1.7	9
106	Photonic crystal fibers with material anisotropy. <i>Optical and Quantum Electronics</i> , 2005 , 37, 253-264	2.4	9
105	Optical injection dynamics of frequency combs. <i>Optics Letters</i> , 2020 , 45, 435	3	9
104	Optimization of electrically tunable VCSEL with intracavity nematic liquid crystal. <i>Optics Express</i> , 2015 , 23, 15706-15	3.3	8
103	Bistability of time-periodic polarization dynamics in a free-running VCSEL. <i>Optics Express</i> , 2014 , 22, 6772-73	3.3	8
102	Analysis of the polarization of single-mode vertical-cavity surface-emitting lasers subject to parallel optical injection. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 447	1.7	8
101	Vertical-cavity surface-emitting laser with a liquid crystal external cavity. <i>Optics Letters</i> , 2014 , 39, 6494-73	3	8
100	Two-dimensional point spread matrix of layered metal-dielectric imaging elements. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011 , 28, 111-7	1.8	8
99	Photonic crystal vertical-cavity surface-emitting lasers with true photonic bandgap. <i>Optics Letters</i> , 2010 , 35, 829-31	3	8
98	Strong modes discrimination and low threshold in cw regime of 1300 nm AlInGaAs/InP VCSEL induced by photonic crystal. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1396-1403	1.6	8
97	Highly birefringent and dichroic photonic crystal VCSEL design. <i>Optics Communications</i> , 2008 , 281, 3149-3152	3	8
96	Tailoring light polarization in vertical cavity surface emitting lasers by isotropic optical feedback from an extremely short external cavity. <i>Applied Physics Letters</i> , 2006 , 89, 091102	3.4	8
95	Modeling of the polarization behavior of elliptical surface-relief VCSELS. <i>Optical and Quantum Electronics</i> , 2005 , 37, 241-252	2.4	8
94	Dissipative Light Bullets in Kerr Cavities: Multistability, Clustering, and Rogue Waves. <i>Physical Review Letters</i> , 2021 , 126, 153902	7.4	8
93	Single lithography-step self-aligned fabrication process for Vertical-Cavity Surface-Emitting Lasers. <i>Materials Science in Semiconductor Processing</i> , 2017 , 61, 35-38	4.3	7
92	Asymmetric dwell-time statistics of polarization chaos from free-running VCSEL. <i>Optics Letters</i> , 2015 , 40, 1865-8	3	7

91	Polarization Switching Regions of Optically Injected Long-Wavelength VCSELs. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 921-928	2	7
90	Role of external cavity reflectivity for achieving polarization control and stabilization of vertical cavity surface emitting laser. <i>Applied Physics Letters</i> , 2007 , 90, 031117	3.4	7
89	Swift-Hohenberg equation with third-order dispersion for optical fiber resonators. <i>Physical Review A</i> , 2019 , 100,	2.6	6
88	Attractor hopping between polarization dynamical states in a vertical-cavity surface-emitting laser subject to parallel optical injection. <i>Physical Review E</i> , 2018 , 97, 032201	2.4	6
87	Vertical-Cavity Surface-Emitting Laser With Cholesteric Liquid Crystal Overlay. <i>Journal of Lightwave Technology</i> , 2014 , 32, 20-26	4	6
86	Photonic Crystal VCSELs: Detailed Comparison of Experimental and Theoretical Spectral Characteristics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1-8	3.8	6
85	Waveguiding losses of micro-structured fibres—plane wave method revisited. <i>Optical and Quantum Electronics</i> , 2007 , 39, 469-479	2.4	6
84	Analytical approximation for the quantum-well gain and refractive-index spectra of vertical-cavity surface-emitting lasers including the effect of uniaxial planar stress. <i>Physical Review A</i> , 2005 , 71,	2.6	6
83	All-optical logic devices based on black arsenic phosphorus with strong nonlinear optical response and high stability. <i>Opto-Electronic Advances</i> , 2022 , 5, 200046-200046	6.5	6
82	Nonlinear dynamics of a laser diode with an injection of an optical frequency comb. <i>Optics Express</i> , 2020 , 28, 30379-30390	3.3	6
81	Localized chaos of elliptically polarized cavity solitons in broad-area VCSEL with a saturable absorber. <i>Optics Letters</i> , 2018 , 43, 5663-5666	3	6
80	Vectorial dark dissipative solitons in Kerr resonators. <i>OSA Continuum</i> , 2021 , 4, 1564	1.4	6
79	Dissipative structures in matter out of equilibrium: from chemistry, photonics and biology, the legacy of Ilya Prigogine (part 2). <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	6
78	Control of dissipative rogue waves in nonlinear cavity optics: Optical injection and time-delayed feedback. <i>Chaos</i> , 2020 , 30, 053103	3.3	5
77	Enhancement of Chaos Bandwidth in VCSELs Induced by Simultaneous Orthogonal Optical Injection and Optical Feedback. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 52, 1-9	2	5
76	Energy exchange between modes in a multimode two-color quantum dot laser with optical feedback. <i>Optics Letters</i> , 2016 , 41, 3205-8	3	5
75	Sensitivity of imaging properties of metal-dielectric layered flat lens to fabrication inaccuracies. <i>Opto-electronics Review</i> , 2010 , 18,	2.4	5
74	Fully Flexible Optoelectronic Foil. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 1355-1362	3.6	5

73	Transverse mode competition effects on the dynamics of gain-switched vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2008 , 93, 131103	3-4	5
72	Full vectorial electromagnetic modeling of vertical-cavity surface-emitting diode lasers by the plane wave admittance method 2006 , 6185, 290		5
71			5
70	Delay-Differential-Equation Modeling of Mode-Locked Vertical-External-Cavity Surface-Emitting Lasers in Different Cavity Configurations. <i>Materials</i> , 2019 , 12,	3-5	5
69	Stationary localized structures and the effect of the delayed feedback in the Brusselator model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	5
68	Vertical electro-absorption modulator design and its integration in a VCSEL. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 145101	3	4
67	Self-pulsation in vertical-cavity surface-emitting lasers as a result of the interplay between carrier-induced antiguiding and built-in index guiding. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 1192	1.7	4
66	Waveguiding effects in self-pulsing vertical-cavity surface-emitting lasers. <i>Optics Letters</i> , 2004 , 29, 53-5	3	4
65	Coexistence of dark vector soliton Kerr combs in normal dispersion resonators. <i>Physical Review A</i> , 2021 , 104,	2.6	4
64	Concealment of Chaos Time-Delay Signature in Three-Cascaded Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 1-1	2	4
63	Stabilization of localized structures by inhomogeneous injection in Kerr resonators. <i>Physical Review A</i> , 2019 , 100,	2.6	3
62	Continuous Wave Threshold Characteristics of Coupled-Cavity VCSELs: Experiment and Model. <i>Journal of Lightwave Technology</i> , 2013 , 31, 3726-3734	4	3
61	Vertical-Cavity Surface-Emitting Laser With a Chiral Nematic Liquid Crystal Overlay. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-10	1.8	3
60	Optimization of Single-Mode Photonic-Crystal Results in Limited Improvement of Emitted Power and Unexpected Broad Range of Tuning. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1360-1366	4	3
59	Delay induces motion of multipeak localized structures in cavity semiconductors 2012 ,		3
58	Traveling wave electrode design of electro-optically modulated coupled-cavity surface-emitting lasers. <i>Optics Express</i> , 2012 , 20, 26184-99	3-3	3
57	Modeling of single- and multimode photonic-crystal planar waveguides with the plane-wave admittance method. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 89, 19-23	1.9	3
56	Plane-wave and cylindrical-wave admittance method for simulation of classical and photonic-crystal-based VCSELs 2006 , 6182, 256		3

55	Linewidth Enhancement Factor of Semiconductor Lasers: Results from Round-Robin Measurements in COST 288 2007 ,		3
54	Optical switching applications of ZnSe/MgF ₂ photonic band gap structures based on thermal nonlinearities. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 245-249	1.9	3
53	High frequency operation of an integrated electro-absorption modulator onto a vertical-cavity surface-emitting laser. <i>JPhys Photonics</i> , 2019 , 1, 02LT01	2.5	3
52	Discrete light bullets in coupled optical resonators. <i>Optics Letters</i> , 2021 , 46, 4072-4075	3	3
51	Tailoring frequency combs through VCSEL polarization dynamics. <i>Optics Express</i> , 2021 , 29, 33976-33991	3.3	3
50	Frequency locking of a semiconductor laser by a ring fibre resonator. <i>Quantum Electronics</i> , 2017 , 47, 871-876	1.8	2
49	Polarization- and Modal-Control in a Vertical-Cavity Surface-Emitting Laser With an External-Cavity Formed by a Liquid Crystal Overlay. <i>Journal of Lightwave Technology</i> , 2016 , 34, 5437-5443	4	2
48	Use of the Franz-Keldysh effect in self-biased p-i-n-heterostructures for saturable absorber mirrors. <i>Semiconductor Science and Technology</i> , 2009 , 24, 025001	1.8	2
47	Low saturation fluence in a semiconductor saturable electroabsorber mirror operated in a self-biased regime. <i>Journal of Applied Physics</i> , 2008 , 103, 103102	2.5	2
46	Excitation of a two-mode limit cycle dynamics on the route to polarization switching in a VCSEL subject orthogonal to optical injection 2008 ,		2
45	Dynamic characteristics of nonlinear Bragg gratings in photonic crystal fibres. <i>Optical and Quantum Electronics</i> , 2007 , 39, 455-467	2.4	2
44	Spectral properties of edge-emitting semiconductor laser subject to optical feedback from extremely short external cavity. <i>Optical and Quantum Electronics</i> , 2008 , 40, 69-81	2.4	2
43	Numerical Analysis of Highly Birefringent Photonic Crystal Fibers with Bragg Reflectors. <i>Optical and Quantum Electronics</i> , 2006 , 38, 535-545	2.4	2
42	Photothermal induced variations in the optical transmission of a photonic band gap structure. <i>Review of Scientific Instruments</i> , 2003 , 74, 860-862	1.7	2
41	Mapping of delayed dynamics in short external cavity 2004 ,		2
40	Study of polarization properties of VCSELs subject to optical feedback from an extremely short external cavity		2
39	Experimental investigation of the influence of the refractive index of the intermediate planar layer on the properties of a polished type single-mode fibre coupler. <i>Journal of Modern Optics</i> , 1996 , 43, 1111-1125	1.1	2
38	Rate Equation for the Nonlinear Phase Shift in Yb-Doped Optical Fibers Under Resonant Diode-Laser Pumping. <i>Journal of Holography and Speckle</i> , 2009 , 5, 299-302		2

37	Self-organized light bullets in type-I intracavity second-harmonic generation 2016 ,		2
36	Optical crystals and light-bullets in Kerr resonators. <i>Chaos, Solitons and Fractals</i> , 2021 , 152, 111364	9.3	2
35	Oxide-confined VCSELs fabricated with a simple self-aligned process flow. <i>Semiconductor Science and Technology</i> , 2017 , 32, 125004	1.8	1
34	Semiconductor surface emitting lasers for photon pairs generation. <i>Chaos</i> , 2017 , 27, 104613	3.3	1
33	Range-dependent effects of optical feedback on multimode two-color quantum dot lasers 2016 ,		1
32	Electro-Absorption Modulator Vertically Integrated on a VCSEL: Microstrip-Based High-Speed Electrical Injection on Top of a BCB Layer. <i>Journal of Lightwave Technology</i> , 2019 , 37, 3861-3868	4	1
31	Monitoring of gamma-irradiated Yb-doped optical fibers through pump induced refractive index changes effect 2012 ,		1
30	Polarization properties and instabilities of QD VCSELs 2010 ,		1
29	Electro-optically modulated coupled-cavity VCSELs: electrical design optimization for high-speed operation 2012 ,		1
28	Analysis of two-dimensional polarisation-coupled impulse response in multilayered metallic flat lens 2008 ,		1
27	Modal behavior of photonic-crystal vertical-cavity surface-emitting diode laser analyzed with Plane Wave Admittance Method. <i>Optical and Quantum Electronics</i> , 2007 , 39, 427-433	2.4	1
26	Threshold characteristics of bottom-emitting long wavelength VCSELs with photonic-crystal within the top mirror. <i>Optical and Quantum Electronics</i> , 2008 , 40, 149-154	2.4	1
25	Light polarization fingerprints on nonlinear dynamics of vertical-cavity surface-emitting lasers. <i>Opto-electronics Review</i> , 2008 , 16,	2.4	1
24	Crucial Parameters of Photonic-Crystal Holes within Photonic-Crystal VCSEL DBR 2006 ,		1
23	Modeling of Single-and Multimode Photonic-Crystal Planar Waveguides with Plane-wave Admittance Method: Losses and Modes Coupling 2006 ,		1
22	Polarization switching and dynamics induced by optical injection in VCSELs		1
21	Plane-Wave Admittance Method and its Applications to Modelling Photonic Crystal Structures 2008 , 253-277		1
20	Coupled-Cavity VCSEL with an Integrated Electro-Absorption Modulator: Small- and Large-Signal Modulation Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6128	2.6	1

19	Complexity of chaos in three cascaded vertical-cavity surface-emitting lasers 2016 ,		1
18	Self-aligned BCB planarization method for high-frequency signal injection in a VCSEL with an integrated modulator 2016 ,		1
17	Oscillatory motion of dissipative solitons induced by delay-feedback in inhomogeneous Kerr resonators. <i>Chaos, Solitons and Fractals</i> , 2021 , 152, 111317	9.3	1
16	Two Polarization Comb Dynamics in VCSELs Subject to Optical Injection. <i>Photonics</i> , 2022 , 9, 115	2.2	1
15	Transverse Mode Mixing in a Coupled-Cavity VCSEL. <i>Journal of Lightwave Technology</i> , 2020 , 38, 5774-5782		0
14	Photonic-Crystal VCSELs 2014 , 149-194		0
13	Orthogonally polarized frequency combs in a mode-locked VCSEL. <i>Optics Letters</i> , 2020 , 45, 252	3	0
12	Nonlinear Dynamics of Vertical-Cavity Surface-Emitting Lasers: Deterministic Chaos and Random Number Generation. <i>Springer Proceedings in Physics</i> , 2016 , 59-69	0.2	
11	Corrections to Mode Competition Induced by Optical Feedback in Two-Color Quantum Dot Lasers [Jul 13 578-585]. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 174-174	2	
10	Introduction to the special issue of Optical and Quantum Electronics related to the workshop Physics of Photonic Crystals and Metamaterials (PPCM). <i>Optical and Quantum Electronics</i> , 2007 , 39, 269-272	2.4	
9	Introduction to the special issue of Optical and Quantum Electronics related to the workshops Physics and Applications of Semiconductor Lasers (PHASE 2007) and Instabilities, Patterns and Spatial Solitons (IPSSO 2007). <i>Optical and Quantum Electronics</i> , 2008 , 40, 65-67	2.4	
8	PULSE PACKAGE DYNAMICS IN VCSELS WITH DELAYED OPTICAL FEEDBACK FROM A SHORT EXTERNAL CAVITY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 353-358		
7	Investigation of polarization properties of VCSELs subject to optical feedback from an extremely short external cavity 2006 , 6185, 299		
6	Introduction to the Special Issue of Optical and Quantum Electronics Related to the Workshop Physics and Applications of Semiconductor Lasers (PHASE). <i>Optical and Quantum Electronics</i> , 2006 , 38, 275-279	2.4	
5	Nonlinear polarization dynamics of current-modulated vertical-cavity surface-emitting lasers 2003 , 4986, 273		
4	Study of optical feedback effects in an extremely short external cavity configuration 2004 , 5452, 591		
3	Coherence resonance in a bistable laser system with time delay 2004 , 5468, 142		
2	Remarks on "Dynamics of population of a four-level atom due to one- and three-photon processes". <i>Physical Review A</i> , 1988 , 37, 4989-4990	2.6	

- 1 Deterministic polarization chaos in a laser diode. *IEICE Proceeding Series*, **2014**, 1, 195-198