

Cun-Zheng Ning

List of Publications by Year in descending order

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217
papers

7,930
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219
all docs

219
docs citations

219
times ranked

8380
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonvolatile electrical switching of optical and valleytronic properties of interlayer excitons. Light: Science and Applications, 2022, 11, 23.	7.7	9
2	Injection-free multiwavelength electroluminescence devices based on monolayer semiconductors driven by an alternating field. Science Advances, 2022, 8, eabl5134.	4.7	13
3	Extraction of silver losses at cryogenic temperatures through the optical characterization of silver-coated plasmonic nanolasers. Optics Express, 2022, 30, 21664.	1.7	1
4	Ultrasensitive Detection of Biomarkers in a Color-Switchable Microcavity-Resonator Laser. Advanced Science, 2022, 9, .	5.6	6
5	Prolonging valley polarization lifetime through gate-controlled exciton-to-trion conversion in monolayer molybdenum ditelluride. Nature Communications, 2022, 13, .	5.8	7
6	Electrical Control of Ultra-long Spin-Valley Polarization of Trions in Monolayer Molybdenum Ditelluride. , 2021, , .		0
7	Super-Stable High-Quality Few-Layer Black Phosphorus for Photonic Applications. ACS Applied Nano Materials, 2021, 4, 4746-4753.	2.4	8
8	Supercontinuum Generation in High Order Waveguide Mode with near-Visible Pumping Using Aluminum Nitride Waveguides. ACS Photonics, 2021, 8, 1344-1352.	3.2	14
9	Spaser or plasmonic nanolaser? â€œ Reminiscences of discussions and arguments with Mark Stockman. Nanophotonics, 2021, 10, 3619-3622.	2.9	4
10	Room-Temperature Exciton-Based Optoelectronic Switch. Small, 2021, 17, e2005918.	5.2	11
11	Electrical Control of Valley Polarization in Monolayer Molybdenum Ditelluride via Exciton-Trion Interactions. , 2021, , .		0
12	Optical Properties and Light-Emission Device Applications of 2-D Layered Semiconductors. Proceedings of the IEEE, 2020, 108, 676-703.	16.4	19
13	Mid-Infrared Lasing in Lead Sulfide Subwavelength Wires on Silicon. Nano Letters, 2020, 20, 470-477.	4.5	15
14	Reconstructing Local Profile of Exciton Emission Wavelengths across a WS_2 Bubble beyond the Diffraction Limit. ACS Nano, 2020, 14, 6931-6937.	7.3	15
15	Excitonic complexes and optical gain in two-dimensional molybdenum ditelluride well below the Mott transition. Light: Science and Applications, 2020, 9, 39.	7.7	35
16	Ten years of spasers and plasmonic nanolasers. Light: Science and Applications, 2020, 9, 90.	7.7	192
17	Electrically Pumped Light-emitting Device Based on MoTe ₂ Directly Integrated with Doped Silicon. , 2020, , .		0
18	Trion Valley Polarization Dynamics in Electrically-gated Monolayer Molybdenum Ditelluride. , 2020, , .		0

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19	Nanowires for Photonics. Chemical Reviews, 2019, 119, 9153-9169.	23.0	173
20	High-Temperature Polarization-Free III-Nitride Solar Cells with Self-Cooling Effects. ACS Photonics, 2019, 6, 2096-2103.	3.2	28
21	Nanostructured silicon substrates of nanopore morphology for buffer-layer free nanoheteroepitaxial growth of InP films. CrystEngComm, 2019, 21, 5559-5562.	1.3	1
22	Semiconductor nanolasers and the size-energy-efficiency challenge: a review. Advanced Photonics, 2019, 1, 1.	6.2	95
23	Cavity Enhanced Trion Emission from a Bilayer MoTe ₂ on Silicon. , 2019, , .		1
24	Observation of Trionic Optical Gain in Electrically Gated Two-Dimensional Molybdenum Ditelluride. , 2019, , .		0
25	A measurement method of the intrinsic optical absorption spectrum of 1D nanomaterials and its application to erbium chloride silicate nanowires. Nanotechnology, 2018, 29, 454003.	1.3	2
26	High-Quality Indium Phosphide Films and Nano-Network Grown Using Low-Cost Metal-Catalyzed Vapor-Liquid-Solid Method for Photovoltaic Applications. Advanced Optical Materials, 2018, 6, 1800136.	3.6	3
27	Fabrication and room temperature operation of semiconductor nano-ring lasers using a general applicable membrane transfer method. Applied Physics Letters, 2017, 110, 171105.	1.5	12
28	Bandgap engineering in semiconductor alloy nanomaterials with widely tunable compositions. Nature Reviews Materials, 2017, 2, .	23.3	279
29	Giant optical gain in a single-crystal erbium chloride silicate nanowire. Nature Photonics, 2017, 11, 589-593.	15.6	69
30	Room-temperature continuous-wave lasing from monolayer molybdenum ditelluride integrated with a silicon nanobeam cavity. Nature Nanotechnology, 2017, 12, 987-992.	15.6	241
31	Simultaneous anion and cation exchange processes for the growth of novel optoelectronic structures. Journal of Alloys and Compounds, 2017, 724, 29-33.	2.8	2
32	Growth of InGaP Alloy Nanowires with Widely Tunable Bandgaps on Silicon Substrates. , 2017, , .		3
33	Monolithic white lasers and semiconductor alloy nanostructures with a wide range of composition control. , 2016, , .		0
34	Single crystal erbium compound nanowires as high gain material for on-chip light source applications. Frontiers of Optoelectronics, 2016, 9, 312-317.	1.9	5
35	Color-Temperature Tuning and Control of Trichromatic White Light Emission from a Multisegment ZnCdSSe Heterostructure Nanosheet. Advanced Functional Materials, 2016, 26, 8521-8526.	7.8	13
36	Comment on "High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band". Physical Review Letters, 2016, 117, 219701.	2.9	2

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37	Multicolor and white lasers from semiconductor nanomaterials. , 2016, , .		0
38	Semiconductor nanowire lasers. Nature Reviews Materials, 2016, 1, .	23.3	332
39	Single-crystal erbium chloride silicate nanowires with internal net gain larger than 300 dB/cm. , 2016, , .		0
40	Modulation response of nanolasers: what rate equation approaches miss. Optical and Quantum Electronics, 2016, 48, 1.	1.5	10
41	Nanolasers: Current Status of the Trailblazer of Synergetics. Understanding Complex Systems, 2016, , 109-128.	0.3	2
42	Record-High Optical Gain in a Single Crystal Erbium Chloride Silicate Nanowire at 1532 nm. , 2016, , .		1
43	Growth of Stoichiometric InP Nanowires/Nanobelts by a Facile Vapor Transport Method. , 2016, , .		0
44	Room temperature operation of semiconductor nano-ring lasers fabricated through a general applicable membrane release and transfer method. , 2016, , .		0
45	Modulation bandwidth and energy efficiency of metallic cavity semiconductor nanolasers with inclusion of noise effects. Laser and Photonics Reviews, 2015, 9, 488-497.	4.4	40
46	Monolithically-integrated laterally-arrayed multiple bandgap solar cells for spectrum-splitting photovoltaic systems. Progress in Quantum Electronics, 2015, 39, 24-70.	3.5	9
47	Cd _x Pb _{1-x} S Alloy Nanowires and Heterostructures with Simultaneous Emission in Mid-Infrared and Visible Wavelengths. Nano Letters, 2015, 15, 909-916.	4.5	37
48	A monolithic white laser. Nature Nanotechnology, 2015, 10, 796-803.	15.6	190
49	Nanolasers, high speed modulation, and energy efficiency. , 2015, , .		0
50	Fabrication of 1D Photonic Crystal on a Single Erbium Chloride Silicate Nanowire and Microcavity Laser Design. , 2015, , .		4
51	Plasmonic and metallic cavity nanolasers: A new paradigm for semiconductor lasers?. , 2014, , .		0
52	InGaAs/GaAs MQWs: Correlation of crystal and physical properties. , 2014, , .		0
53	Semiconductor Nanolasers (A Tutorial). , 2014, , .		2
54	Composition-Graded Nanowire Solar Cells Fabricated in a Single Process for Spectrum-Splitting Photovoltaic Systems. Nano Letters, 2014, 14, 5772-5779.	4.5	20

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55	Hybrid photon-plasmon nanowire lasers. , 2014, , .		0
56	What is Laser Threshold?. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1503604-1503604.	1.9	72
57	Design and fabrication of an electrical injection metallic bowtie plasmonic structure integrated with semiconductor gain medium. Applied Physics Letters, 2013, 103, 091112.	1.5	2
58	Hybrid Photon-Plasmon Nanowire Lasers. Nano Letters, 2013, 13, 5654-5659.	4.5	93
59	Record performance of electrical injection sub-wavelength metallic-cavity semiconductor lasers at room temperature. Optics Express, 2013, 21, 4728.	1.7	154
60	Dynamical Color-Controllable Lasing with Extremely Wide Tuning Range from Red to Green in a Single Alloy Nanowire Using Nanoscale Manipulation. Nano Letters, 2013, 13, 4945-4950.	4.5	101
61	Erbium concentration control and optimization in erbium yttrium chloride silicate single crystal nanowires as a high gain material. Applied Physics Letters, 2013, 103, 121902.	1.5	15
62	CdSe nanowire solar cells. , 2013, , .		1
63	Mid-Infrared Lasing in a Single Lead Sulfide SubwavelengthWire at 180 K. , 2013, , .		0
64	Loss and Size Minimization of Surface Plasmon Polariton Nanolasers in Near Infrared. , 2013, , .		0
65	Simultaneous two-color lasing in a single CdSSe heterostructure nanosheet. Semiconductor Science and Technology, 2013, 28, 065005.	1.0	30
66	An electrical injection metallic cavity nanolaser with azimuthal polarization. Applied Physics Letters, 2013, 102, .	1.5	37
67	Fabrication challenges of electrical injection metallic cavity semiconductor nanolasers. Semiconductor Science and Technology, 2013, 28, 124002.	1.0	50
68	Dynamically Color-Controllable Lasing from a Single CdSSe Alloy Nanowire. , 2013, , .		0
69	Extremely Large Signal Enhancement in an Erbium Chloride Silicate Single-Crystal Nanowire. , 2013, , .		2
70	Recent Progress in Sub-Wavelength Metallic Cavity Nanolasers. , 2013, , .		0
71	Contact printing of compositionally graded CdS _x Se _{1-x} nanowire parallel arrays for tunable photodetectors. Nanotechnology, 2012, 23, 045201.	1.3	58
72	Significant increase of photoluminescence lifetime at 1.5 μ m in erbium chloride silicate nanowires. , 2012, , .		1

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73	Interplay of various loss mechanisms and ultimate size limit of a surface plasmon polariton semiconductor nanolaser. <i>Optics Express</i> , 2012, 20, 16348.	1.7	23
74	Photoluminescence studies of type-II CdSe/CdTe superlattices. <i>Applied Physics Letters</i> , 2012, 101, 061915.	1.5	1
75	Long lifetime, high density single-crystal erbium compound nanowires as a high optical gain material. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	24
76	Simultaneous green and red lasing in a single CdSSe heterostructure nanosheet at room temperature. , 2012, , .		0
77	Charge transport and trap characterization in individual GaSb nanowires. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	33
78	Unambiguous demonstration of room temperature CW operation of a sub-wavelength metallic cavity laser. , 2012, , .		0
79	Full-spectrum laterally-arranged multiple-bandgap InGaN solar cells. , 2012, , .		2
80	Metallic subwavelength-cavity semiconductor nanolasers. <i>Light: Science and Applications</i> , 2012, 1, e20-e20.	7.7	177
81	Room-temperature continuous wave lasing in deep-subwavelength metallic cavities under electrical injection. <i>Physical Review B</i> , 2012, 85, .	1.1	121
82	Removal of Surface States and Recovery of Band-Edge Emission in InAs Nanowires through Surface Passivation. <i>Nano Letters</i> , 2012, 12, 3378-3384.	4.5	98
83	Composition and Bandgap-Graded Semiconductor Alloy Nanowires. <i>Advanced Materials</i> , 2012, 24, 13-33.	11.1	113
84	Influence of Supersaturation and Spontaneous Catalyst Formation on the Growth of PbS Wires: Toward a Unified Understanding of Growth Modes. <i>ACS Nano</i> , 2011, 5, 8730-8738.	7.3	21
85	A Top-down Approach to Fabrication of High Quality Vertical Heterostructure Nanowire Arrays. <i>Nano Letters</i> , 2011, 11, 1646-1650.	4.5	42
86	In _x Ga _{1-x} As Nanowires on Silicon: One-Dimensional Heterogeneous Epitaxy, Bandgap Engineering, and Photovoltaics. <i>Nano Letters</i> , 2011, 11, 4831-4838.	4.5	133
87	Electrical injection, continuous wave operation of subwavelength-metallic-cavity lasers at 260 K. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	67
88	High-performance laterally-arranged multiple-bandgap solar cells using spatially composition-graded Cd _x Pb _{1-x} S nanowires on a single substrate: a design study. <i>Optics Express</i> , 2011, 19, A686.	1.7	26
89	All-semiconductor active plasmonic system in mid-infrared wavelengths. <i>Optics Express</i> , 2011, 19, 14594.	1.7	65
90	Single-crystal erbium chloride silicate nanowires as a Si-compatible light emission material in communication wavelength. <i>Optical Materials Express</i> , 2011, 1, 1202.	1.6	26

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91	Semiconductor Alloy Nanowires and Nanobelts With Tunable Optical Properties. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 808-818.	1.9	6
92	Trap-state whispering-gallery mode lasing from high-quality tin-doped CdS whiskers. Applied Physics Letters, 2011, 99, .	1.5	26
93	Room Temperature CW Operation of Metal-Semiconductor Plasmonic Nanolasers with Subwavelength Cavity. , 2011, , .		0
94	Semiconductor nanolasers. Physica Status Solidi (B): Basic Research, 2010, 247, 774-788.	0.7	160
95	Photoluminescence properties of InAs nanowires grown on GaAs and Si substrates. Nanotechnology, 2010, 21, 335705.	1.3	38
96	Peculiar features of confinement factors in a metal-semiconductor waveguide. Applied Physics Letters, 2010, 96, .	1.5	47
97	Spatial Composition Grading of Quaternary ZnCdSSe Alloy Nanowires with Tunable Light Emission between 350 and 710 nm on a Single Substrate. ACS Nano, 2010, 4, 671-680.	7.3	134
98	Novel features of the confinement factor in a plasmonic waveguide. , 2010, , .		0
99	Semiconductor-metal core-shell plasmonic nanolasers: Recent experimental results. , 2010, , .		0
100	Semiconductor-metal core-shell plasmonic nanolasers with a bowtie antenna cross section. , 2010, , .		0
101	Semiconductor plasmonic nanolasers. , 2010, , .		0
102	Super-Broadly Wavelength-Tunable Semiconductor Nanowire Lasers on a Single Substrate. , 2009, , .		0
103	Fringing field effects in semiconductor nanowire double heterostructures. Proceedings of SPIE, 2009, , .	0.8	1
104	Electrical and optical characterization of individual GaSb nanowires. Proceedings of SPIE, 2009, , .	0.8	5
105	Phase Transformation Studies of Metal Oxide Nanowires. Crystal Growth and Design, 2009, 9, 3177-3182.	1.4	26
106	Quaternary Alloy Semiconductor Nanobelts with Bandgap Spanning the Entire Visible Spectrum. Journal of the American Chemical Society, 2009, 131, 9502-9503.	6.6	77
107	Continuous Alloy-Composition Spatial Grading and Superbroad Wavelength-Tunable Nanowire Lasers on a Single Chip. Nano Letters, 2009, 9, 784-788.	4.5	191
108	Lasing in metal-insulator-metal sub-wavelength plasmonic waveguides. Optics Express, 2009, 17, 11107.	1.7	581

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109	Giant modal gain, amplified surface plasmon-polariton propagation, and slowing down of energy velocity in a metal-semiconductor-metal structure. <i>Physical Review B</i> , 2009, 80, .	1.1	83
110	Spatial Wavelength-Tunable Emission between 350 nm and 715 nm from Nanowires on a Single Substrate. , 2009, , .		0
111	Giant Modal Gain in a Metal-Semiconductor Waveguide. , 2009, , .		0
112	Electrical Injection in Longitudinal and Coaxial Heterostructure Nanowires: A Comparative Study through a Three-Dimensional Simulation. <i>Nano Letters</i> , 2008, 8, 4234-4237.	4.5	13
113	Fringing field effects on electrical resistivity of semiconductor nanowire-metal contacts. <i>Applied Physics Letters</i> , 2008, 92, 083503.	1.5	40
114	Metal-encased semiconductor nanowires as waveguides for ultrasmall lasers. , 2007, , .		2
115	Simulation of p-n junction properties of nanowires and nanowire arrays. , 2007, , .		5
116	Interpretation of distributed-feedback-laser spectrum using reflection properties of Bloch waves. <i>Journal of Applied Physics</i> , 2007, 101, 053117.	1.1	1
117	Metal-encased semiconductor nanowires as waveguides for ultrasmall lasers. , 2007, , .		1
118	Band structure and optical properties of wurtzite semiconductor nanotubes. <i>Physical Review B</i> , 2007, 75, .	1.1	13
119	Semiconductor Nanowires with and without Metal Shell: What is the Ultimate Size Limit of a Nanolaser?. , 2007, , .		0
120	Biexciton Gain and the Mott Transition in GaAs Quantum Wires. <i>Physical Review Letters</i> , 2007, 99, 167403.	2.9	41
121	Interplay between Tamm-like and Shockley-like surface states in photonic crystals. <i>Physical Review B</i> , 2007, 76, .	1.1	33
122	Tamm surface states in a finite chain of defects in a photonic crystal. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 056004.	0.7	5
123	The role of surface states in a-axis GaN nanowires. , 2007, , .		1
124	Existence and control of Shockley surface states of a one-dimensional defect chain in a photonic crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 707.	0.9	3
125	Size reduction of a semiconductor nanowire laser by using metal coating. , 2007, , .		49
126	Synthesis of Group III Antimonide Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7339-7347.	1.5	48

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127	Photoluminescence of GaN Nanowires of Different Crystallographic Orientations. Nano Letters, 2007, 7, 626-631.	4.5	79
128	Shockley and Tamm surface states in photonic crystals. Physical Review B, 2006, 73, .	1.1	51
129	Ultrafast directional switching in photonic-crystal branched waveguides using electro-optical control. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 978.	0.9	2
130	Surface states of wurtzite semiconductor nanowires with identical lateral facets: A transfer-matrix approach. Physical Review B, 2006, 74, .	1.1	13
131	Light propagation through a sharp-bend coupled-cavity waveguide in a two-dimensional photonic crystal. Physical Review B, 2006, 73, .	1.1	3
132	Near-infrared semiconductor subwavelength-wire lasers. Applied Physics Letters, 2006, 88, 163115.	1.5	136
133	Distribution of optical emission between guided modes and free space in a semiconductor nanowire. Journal of Applied Physics, 2006, 99, 024314.	1.1	67
134	Transparency induced by coupling of intersubband plasmons in a quantum well. AIP Conference Proceedings, 2005, , .	0.3	0
135	Control of light propagation through sharp bend waveguide based on two-dimensional photonic crystal. , 2005, 5733, 159.		1
136	Photonic crystal waveguides with acute bending angles. Applied Physics Letters, 2005, 87, 161113.	1.5	9
137	Optical routing and sensing with nanowire assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7800-7805.	3.3	224
138	Band structure and optical absorption of GaN nanowires grown along the c-axis. Physical Review B, 2005, 72, .	1.1	23
139	Radius-dependent polarization anisotropy in semiconductor nanowires. Physical Review B, 2005, 72, .	1.1	22
140	Two-Photon Lasers Based on Intersubband Transitions in Semiconductor Quantum Wells. Physical Review Letters, 2004, 93, 187403.	2.9	30
141	Induced Transparency by Intersubband Plasmon Coupling in a Quantum Well. Physical Review Letters, 2004, 93, 087402.	2.9	16
142	Effects of electron-electron and electron-phonon scatterings on the linewidths of intersubband transitions in a quantum well. Physical Review B, 2004, 70, .	1.1	33
143	Doping-induced type-II to type-I transition and mid-IR optical gain in InAs/AlSb quantum wells. , 2004, , .		2
144	Far-field emission of a semiconductor nanowire laser. Optics Letters, 2004, 29, 572.	1.7	89

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145	Modal gain in a semiconductor nanowire laser with anisotropic bandstructure. IEEE Journal of Quantum Electronics, 2004, 40, 1389-1397.	1.0	108
146	Introduction to the issue on optoelectronic device simulation. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 685-687.	1.9	0
147	Nano Optics: Modal Properties of Semiconductor Nanowire Lasers. Optics and Photonics News, 2003, 14, 21.	0.4	0
148	Temperature dependence of intersubband transitions in InAs/AlSb quantum wells. Applied Physics Letters, 2003, 83, 3936-3938.	1.5	38
149	Reflection of guided modes in a semiconductor nanowire laser. Applied Physics Letters, 2003, 83, 1237-1239.	1.5	233
150	$k \cdot p$ Hamiltonian without spurious-state solutions. Physical Review B, 2003, 68, .	1.1	34
151	Interplay of Collective Excitations in Quantum-Well Intersubband Resonances. Physical Review Letters, 2003, 91, 097401.	2.9	44
152	Doping-induced type-II to type-I transition and interband optical gain in InAs/AlSb quantum wells. Applied Physics Letters, 2003, 83, 1581-1583.	1.5	5
153	Microscopic modeling of intersubband optical processes in Type II semiconductor quantum wells: linear absorption. , 2003, 4986, 255.		2
154	Spurious states free solutions of the $k \cdot p$ Hamiltonian for heterostructures. , 2003, 4986, 265.		0
155	Many-body effects in a laterally inhomogeneous semiconductor quantum well. Physical Review B, 2002, 65, .	1.1	2
156	Static and dynamic effects of lateral carrier diffusion in semiconductor lasers. , 2002, , .		1
157	Intersubband Transitions in InAs/AlSb Quantum Wells. Materials Research Society Symposia Proceedings, 2002, 744, 1.	0.1	4
158	Ultrafast narrow bandwidth modulation of VCSELs. , 2002, 4649, 236.		0
159	Self-sustained ultrafast pulsation in coupled vertical-cavity surface-emitting lasers. Optics Letters, 2002, 27, 912.	1.7	6
160	Hydrodynamic theory for spatially inhomogeneous semiconductor lasers. II. Numerical results. Physical Review A, 2002, 66, .	1.0	2
161	Ultrafast beam self-switching by using coupled vertical-cavity surface-emitting lasers. Journal of Modern Optics, 2002, 49, 707-718.	0.6	2
162	Hydrodynamic theory for spatially inhomogeneous semiconductor lasers. I. A microscopic approach. Physical Review A, 2002, 66, .	1.0	10

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163	Theory and simulation of self- and mutual-diffusion of carrier density and temperature in semiconductor lasers. , 2001, , .		0
164	Nonlinearity effects of lateral density diffusion coefficient on gain-guided VCSEL performance. , 2001, , .		1
165	Spatial dynamics of VCSEL arrays. , 2001, 4283, 287.		0
166	Ultrafast directional beam switching in coupled vertical-cavity surface-emitting lasers. Journal of Applied Physics, 2001, 90, 497-499.	1.1	6
167	Terahertz frequency repetition-rate optical pulse train generation by plasma heating of semiconductor lasers. , 2001, , .		0
168	Numerical Simulation of Ultrafast Directional Beam Switching in Coupled VCSELs. , 2001, , .		0
169	Dynamics of Semiconductor Quantum Well Laser under Sub-Terahertz Electrical Field Modulation. , 2001, , .		0
170	Transverse mode dynamics of VCSELs undergoing current modulation. , 2000, 3944, 284.		3
171	Many-body effects on bandgap shrinkage, effective masses, and alpha factor. , 2000, , .		3
172	Optical control of intersubband absorption in a multiple-quantum-well-embedded semiconductor microcavity. , 2000, , .		0
173	Near-infrared laser pumped intersubband THz laser gain in InGaAs/AlAsSb/InP quantum wells. Applied Physics Letters, 2000, 76, 1984-1986.	1.5	14
174	Exciton absorption in semiconductor quantum wells driven by a strong intersubband pump field. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 433.	0.9	22
175	Piezoelectric field-enhanced second-order nonlinear optical susceptibilities in wurtzite GaN/AlGaIn quantum wells. Applied Physics Letters, 2000, 76, 333-335.	1.5	59
176	Plasma heating and ultrafast semiconductor laser modulation through a terahertz heating field. Journal of Applied Physics, 2000, 88, 4933-4940.	1.1	4
177	Difference-frequency generation of terahertz wave and optical gain in Sb-based quantum wells pumped by near-infrared lasers. , 2000, , .		0
178	Simulations of Spatial Dynamics in Vertical-Cavity Surface-Emitting Laser Arrays. , 2000, , .		0
179	Ultrafast modulation of semiconductor lasers through a terahertz field. Applied Physics Letters, 1999, 75, 442-444.	1.5	9
180	Terahertz optical gain based on intersubband transitions in optically pumped semiconductor quantum wells: Coherent pump-probe interactions. Applied Physics Letters, 1999, 75, 1207-1209.	1.5	37

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181	Microscopic modeling and simulation of transverse-mode dynamics of vertical-cavity surface-emitting lasers. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 2072.	0.9	28
182	Introduction. Optics Express, 1999, 5, 28.	1.7	0
183	Transverse mode dynamics of VCSELs through space-time domain simulation. Optics Express, 1999, 5, 55.	1.7	9
184	Transverse mode dynamics of VCSELs through space-time domain simulation. , 1999, 3625, 395.		1
185	Validity of the relation between spontaneous and stimulated emissions in semiconductors. , 1999, , .		3
186	Transverse Mode Dynamics of VCSELs Under Current Modulation. , 1999, , .		0
187	Partial and total $\hat{\epsilon}$ parameters in semiconductor optical devices. Applied Physics Letters, 1998, 72, 1887-1889.	1.5	4
188	Modeling the interplay of thermal effects and transverse mode behavior in native-oxide-confined vertical-cavity surface-emitting lasers. Physical Review A, 1998, 58, 3279-3292.	1.0	58
189	Temperature-induced alpha factor. , 1998, , .		0
190	A first-principles fully space - time resolved model of a semiconductor laser. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1997, 9, 681-691.	1.0	12
191	<title>Incorporating many-body effects into modeling of semiconductor lasers and amplifiers</title>. , 1997, 2994, 666.		8
192	Effective Bloch equations for semiconductor lasers and amplifiers. IEEE Journal of Quantum Electronics, 1997, 33, 1543-1550.	1.0	118
193	Inverse problem with a dilated kernel containing different singularities. Physical Review E, 1996, 54, 2384-2391.	0.8	0
194	Plasmaâ€œheating induced intensityâ€œdependent gain in semiconductor lasers. Applied Physics Letters, 1995, 66, 559-561.	1.5	12
195	<title>Effects of plasma and lattice heating in VCSELs</title>. , 1995, , .		3
196	Thermal effects on the threshold of vertical-cavity surface-emitting lasers: first- and second-order phase transitions. Optics Letters, 1995, 20, 1151.	1.7	11
197	Self-consistent approach to thermal effects in vertical-cavity surface-emitting lasers. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1993.	0.9	42
198	Resonancelike responses of autonomous nonlinear systems to white noise. Physical Review E, 1994, 50, 3508-3516.	0.8	52

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199	Stochastic resonance without external periodic force. <i>Physical Review Letters</i> , 1993, 71, 807-810.	2.9	627
200	Nonlinear-response effects in stochastic resonance. <i>Physical Review E</i> , 1993, 47, 2321-2325.	0.8	21
201	Geometrical phase and amplitude accumulations in dissipative systems with cyclic attractors. <i>Physical Review Letters</i> , 1992, 68, 2109-2112.	2.9	48
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