Slawomir Sujecki

List of Publications by Year
in descending order

196 papers	3,133 citations	279798 23 h-index	168389 53 g-index
201 all docs	201 docs citations	201 times ranked	1994 citing authors

#	Article	IF	Citations
1	Breaking through the wavelength barrier: The state-of-play on rare-earth ion, mid-infrared fiber lasers for the 4â€“10 Î¼m wavelength region. , 2022, , 401-502.		0
2	Machine Learning Algorithms for Conversion of CVSS Base Score from 2.0 to 3.x. Lecture Notes in Computer Science, 2021, , 255-269.	1.3	3
3	Modeling Traffic Forecasts with Probability in DWDM Optical Networks. Lecture Notes in Computer Science, 2021, , 365-378.	1.3	1
4	High Peak Power Q-switched Er:ZBLAN Fiber Laser. Journal of Lightwave Technology, 2021, 39, 6572-6578.	4.6	15
5	Mid-infrared sources, based on chalcogenide glass fibres, for biomedical diagnostics. , 2021, , .		1
6	Application of fluoride fiber laser devices operating at wavelengths near 3 micrometers. , 2021, , .		0
7	Room temperature mid-infrared fiber lasing beyond 5â€‰â€‰Âµm in chalcogenide glass small-core step index fiber. Optics Letters, 2021, 46, 3504.	3.3	31
8	Vulnerability Management Models Using a Common Vulnerability Scoring System. Applied Sciences (Switzerland), 2021, 11, 8735.	2.5	12
9	Machine Learning Algorithms for Prediction of the Quality of Transmission in Optical Networks. Entropy, 2021, 23, 7.	2.2	16
10	Application of ML Algorithms for Prediction of the QoT in Optical Networks with Imbalanced and Incomplete Data. , 2021, , .		3
11	Modeling Demands Forecasts with Probability Distributions in DWDM Optical Networks. , 2021, , .		2
12	Automatic CVSS-based Vulnerability Prioritization and Response with Context Information. , 2021, , .		5
13	Conversion of CVSS Base Score from 2.0 to 3.1. , 2021, , .		3
14	Learning to Classify DWDM Optical Channels from Tiny and Imbalanced Data. Entropy, 2021, 23, 1504.	2.2	1
15	Gain-switched Dy³⁺:ZBLAN fiber laser operating around 3 Î¼m. JPhys Photonics, 2020, 2, 014003.	4.6	15
16	Infrared Laser Application to Wood Cutting. Materials, 2020, 13, 5222.	2.9	8
17	Bright Mid-Infrared (MIR) Photoluminescence Sources and their Application in Imaging and Sensing. , 2020, , .		1
18	Experimental Investigation of Actively Q-Switched Er3+:ZBLAN Fiber Laser Operating at around 2.8 Âµm. Sensors, 2020, 20, 4642.	3.8	12

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19	Fluoride Fiber Lasers Operating at Wavelengths near 3 Micrometers. , 2020, , .		0
20	Efficient Algorithm for Providing Live Vulnerability Assessment in Corporate Network Environment. Applied Sciences (Switzerland), 2020, 10, 7926.	2.5	7
21	A Comparative Evaluation of Nature Inspired Algorithms for Telecommunication Network Design. Applied Sciences (Switzerland), 2020, 10, 6840.	2.5	10
22	Ultra-Wideband WDM Optical Network Optimization. Photonics, 2020, 7, 16.	2.0	22
23	Milliwatt-Level Spontaneous Emission Across the 3.5â€"8 Âµm Spectral Region from Pr3+ Doped Selenide Chalcogenide Fiber Pumped with a Laser Diode. Applied Sciences (Switzerland), 2020, 10, 539.	2.5	20
24	Experimental photoluminescence and lifetimes at wavelengths including beyond 7 microns in Sm³⁺-doped selenide-chalcogenide glass fibers. Optics Express, 2020, 28, 12373.	3.4	12
25	Distributed Analysis Tool for Vulnerability Prioritization in Corporate Networks. , 2020, , .		5
26	Experimental investigation of mid-infrared Er:ZBLAN fiber laser. Photonics Letters of Poland, 2020, 12, 73.	0.4	0
27	Pulsed fluoride glass fiber laser with near 3 Âµm operating wavelength. , 2020, , .		1
28	Container Based Analysis Tool for Vulnerability Prioritization in Cyber Security Systems. , 2019, , .		2
29	Experimental observation of gain in a resonantly pumped Pr3+-doped chalcogenide glass mid-infrared fibre amplifier notwithstanding the signal excited-state absorption. Scientific Reports, 2019, 9, 11426.	3.3	16
30	Optimization of Optical Networks Based on CDC-ROADM Technology. Applied Sciences (Switzerland), 2019, 9, 399.	2.5	20
31	Spatiotemporal modeling of mid-infrared photoluminescence from terbium(III) ion doped chalcogenide-selenide multimode fibers. Journal of Rare Earths, 2019, 37, 1157-1163.	4.8	11
32	Multimode Selenide-Chalcogenide Glass Fiber-Based MIR Spontaneous Emission Sources with Shaped Output Spectrum. , 2019, , .		0
33	Experimental and numerical investigation to rationalize both near-infrared and mid-infrared spontaneous emission inÂPr3+ doped selenide-chalcogenide fiber. Journal of Luminescence, 2019, 209, 14-20.	3.1	9
34	Ultra-broadband mid-infrared emission from a Pr³⁺/Dy³⁺ co-doped selenide-chalcogenide glass fiber spectrally shaped by varying the pumping arrangement [Invited]. Optical Materials Express, 2019, 9, 2291.	3.0	18
35	Breaking Through the Wavelength Barrier: State-of-play on Rare-earth Ion Mid-infrared Fiber Lasers at 4-9 Âµm. , 2019, , .		0
36	Modeling propagation in large deformed step-index fibers using a finite operator method. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1208.	2.1	0

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37	Application of machine learning methods in provisioning of DWDM channels. , 2019, , .		1
38	Application of evolutionary algorithm to optimization of DWDM networks. , 2019, , .		0
39	Numerical analysis of spontaneous mid-infrared light emission from terbium ion doped multimode chalcogenide fibers. Journal of Luminescence, 2018, 199, 112-115.	3.1	5
40	Numerical modelling of Tb3+ doped selenide-chalcogenide multimode fibre based spontaneous emission sources. Optical and Quantum Electronics, 2018, 50, 1.	3.3	6
41	Single- And Double-Mode Light Generation in DFB Fiber Laser: Wavelength-Scale Electromagnetic Modelling by the Method of Single Expression. , 2018, , .		1
42	Numerical Analysis of Q-Switched Erbium Ion Doped Fluoride Glass Fiber Laser Operation Including Spontaneous Emission. Applied Sciences (Switzerland), 2018, 8, 803.	2.5	9
43	Resource Optimization in Fully Flexible Optical Node Architectures. , 2018, , .		4
44	Time Domain Modeling of Multimode Selenide-Chalcogenide Glass Fiber Based Mid Infrared Spontaneous Emission Sources. , 2018, , .		0
45	Comparative Modeling of Infrared Fiber Lasers. Photonics, 2018, 5, 48.	2.0	11
46	Modeling of resonantly pumped mid-infrared Pr³⁺-doped chalcogenide fiber amplifier with different pumping schemes. Optics Express, 2018, 26, 23641.	3.4	14
47	Modelling and Design of Lanthanide Ion-Doped Chalcogenide Fiber Lasers: Progress towards the Practical Realization of the First MIR Chalcogenide Fiber Laser. Fibers, 2018, 6, 25.	4.0	9
48	Experimental Investigation of Mid-Infrared Laser Action From Dy³⁺ Doped Fluorozirconate Fiber. IEEE Photonics Technology Letters, 2018, 30, 1083-1086.	2.5	26
49	Single-Mode Light Generation in DFB Fiber Laser: Wavelength-Scale Electromagnetic Modelling by the Method of Single Expression. , 2018, , .		0
50	Comparative study of praseodymium additives in active selenide chalcogenide optical fibers. Optical Materials Express, 2018, 8, 3910.	3.0	10
51	Comparative study of infrared fiber laser models. , 2018, , .		0
52	Numerical modelling of pulse formation in Er3+-doped Q-switched fluoride glass fiber lasers. , 2018, , .		0
53	Determining the refractive index dispersion and thickness of hot-pressed chalcogenide thin films from an improved Swanepoel method. Optical and Quantum Electronics, 2017, 49, 1.	3.3	23
54	Promising emission behavior in Pr 3+ /In selenide-chalcogenide-glass small-core step index fiber (SIF). Optical Materials, 2017, 67, 98-107.	3.6	21

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55	Numerical and experimental investigation of mid-infrared laser action in resonantly pumped Pr3+ doped chalcogenide fibre. Optical and Quantum Electronics, 2017, 49, 1.	3.3	31
56	The Modelling of Fibre Lasers for Mid-Infrared Wavelengths. Springer Series in Optical Sciences, 2017, , 39-75.	0.7	3
57	Mid-infrared emission in Tb^3+-doped selenide glass fiber. Journal of the Optical Society of America B: Optical Physics, 2017, 34, A70.	2.1	48
58	Numerical modelling of Tb³⁺ doped selenide-chalcogenide multimode fibre based spontaneous emission sources. , 2017, , .		1
59	Modelling chaos in asymmetric optical fibres. , 2017, , .		1
60	Modelling of multimode selenide-chalcogenide glass fibre based mir spontaneous emission sources. , 2017, , .		0
61	Review of Recent Progress Towards Mid-Infrared Fiber Lasers for 4-9 Î¼m Window. , 2017, , .		1
62	A study of MIR photoluminescence from Pr3+ doped chalcogenide fibers pumped at near-infrared wavelengths. , 2017, , .		1
63	Simple and efficient method of lines based algorithm for modeling of erbium doped Q-switched fluoride fiber lasers. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2288.	2.1	11
64	Characterising refractive index dispersion in chalcogenide glasses. , 2016, , .		2
65	True mid-infrared Pr³⁺absorption cross-section in a selenide-chalcogenide host-glass. , 2016, , .		5
66	Challenges and future trends in fiber lasers. , 2016, , .		5
67	Multiwavelength erbium ring laser based on multicore fibre. , 2016, , .		0
68	Numerical modelling of lanthanide-ion doped fibre lasers operating within mid-infrared wavelength region. , 2016, , .		0
69	Towards supercontinuum-driven hyperspectral microscopy in the mid-infrared. Proceedings of SPIE, 2016, , .	0.8	4
70	Towards the mid-infrared optical biopsy. Proceedings of SPIE, 2016, , .	0.8	6
71	Design of erbium doped double clad ZBLAN Fibre laser. Journal of Physics: Conference Series, 2015, 619, 012044.	0.4	0
72	Numerical modelling of erbium (III) doped Q-switched fibre lasers. , 2015, , .		1

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73	Multicore microstructured optical fibre for sensing applications. Optics Communications, 2015, 344, 71-76.	2.1	14
74	Theoretical study of population inversion in active doped MIR chalcogenide glass fibre lasers (invited). Optical and Quantum Electronics, 2015, 47, 1389-1395.	3.3	12
75	Introduction to the special issue on numerical simulation of optoelectronic devices NUSODâ€™14. Optical and Quantum Electronics, 2015, 47, 1291-1292.	3.3	3
76	Mid-infrared photoluminescence in small-core fiber of praseodymium-ion doped selenide-based chalcogenide glass. Optical Materials Express, 2015, 5, 870.	3.0	58
77	Mid-Infrared Supercontinuum Generation Spanning More Than 11 Î¼m in a Chalcogenide Step-Index Fiber. , 2015, , .		0
78	Spectroscopy of mid-infrared (4.8µm) photoluminescence in Tb³⁺ doped chalcogenide glass and fibre. , 2015, , .		1
79	Low loss Ge-As-Se chalcogenide glass fiber, fabricated using extruded preform, for mid-infrared photonics. Optical Materials Express, 2015, 5, 1722.	3.0	79
80	Stability analysis of FD-BPM applied in high power semiconductor laser models. Optical and Quantum Electronics, 2015, 47, 1415-1419.	3.3	0
81	Mid-infrared supercontinuum generation to 12.5Î¼m in large NA chalcogenide step-index fibres pumped at 4.5Î¼m. Optics Express, 2014, 22, 19169.	3.4	83
82	Modelling and design of MIR chalcogenide glass fibre lasers. , 2014, , .		0
83	Towards mid-infrared supercontinuum generation: Ge-Sb-Se mid-infrared step-index small-core optical fiber. Proceedings of SPIE, 2014, , .	0.8	3
84	Superior photoluminescence (PL) of Pr^3+-In, compared to Pr^3+-Ga, selenide-chalcogenide bulk glasses and PL of optically-clad fiber. Optics Express, 2014, 22, 21236.	3.4	50
85	Refractive index dispersion of chalcogenide glasses for ultra-high numerical-aperture fiber for mid-infrared supercontinuum generation. Optical Materials Express, 2014, 4, 1444.	3.0	78
86	Towards mid-infrared fiber-lasers: rare earth ion doped, indium-containing, selenide bulk glasses and fiber. Proceedings of SPIE, 2014, , .	0.8	2
87	Broadband, mid-infrared emission from Pr3+ doped GeAsGaSe chalcogenide fiber, optically clad. Optical Materials, 2014, 36, 1076-1082.	3.6	81
88	A simple technique for calculation of numerical integration errors for physically meaningful functions. Afrika Matematika, 2014, 25, 53-65.	0.8	2
89	Numerical investigation of mid-infrared emission from Pr $$^{3+}$$ 3 + doped GeAsGaSe fibre. Optical and Quantum Electronics, 2014, 46, 593-602.	3.3	4
90	The local environment of Dy3+in selenium-rich chalcogenide glasses. RSC Advances, 2014, 4, 42364-42371.	3.6	8

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91	Photoluminescence modelling of lanthanide doped, low phonon energy glasses. , 2014, , .		0
92	Sensing capability of multicore fibre. , 2014, , .		1
93	Mid-infrared supercontinuum covering the 1.4â€“13.3â€…Î¼m molecular fingerprint region using ultra-high NA chalcogenide step-index fibre. Nature Photonics, 2014, 8, 830-834.	31.4	811
94	Introduction to the OQE special issue on numerical simulation of optoelectronic devices NUSODâ€™13. Optical and Quantum Electronics, 2014, 46, 1187-1187.	3.3	0
95	Development of praseodymium-doped, selenide chalcogenide glass, step-index fibre towards mid-infrared fibre lasers. , 2014, , .		2
96	First Identification of Rareâ€Earth Oxide Nucleation in Chalcogenide Glasses and Implications for Fabrication of Midâ€Infrared Active Fibers. Journal of the American Ceramic Society, 2014, 97, 432-441.	3.8	13
97	An Efficient Algorithm for Steady State Analysis of Fibre Lasers Operating under Cascade Pumping Scheme. International Journal of Electronics and Telecommunications, 2014, 60, 143-149.	0.6	11
98	Introduction to the OQE special issue on numerical simulation of optoelectronic devices NUSODâ€™12. Optical and Quantum Electronics, 2013, 45, 571-571.	3.3	0
99	Numerical and experimental investigation of NIR-to-visible energy up-conversion in Er3+-doped solâ€“gel SiO2 powders. Journal of Materials Chemistry C, 2013, 1, 8075.	5.5	6
100	Extended Taylor series and interpolation of physically meaningful functions. Optical and Quantum Electronics, 2013, 45, 53-66.	3.3	4
101	Numerical and experimental investigation of near-infrared-visible luminescence in erbium doped sol-gel SiO<inf>2</inf>. , 2013, , .		0
102	Neodymium-doped highly birefringent microstructure fiber laser. Laser Physics, 2013, 23, 085107.	1.2	0
103	Application of Extended Taylor Series based Finite Difference Method in photonics. , 2013, , .		0
104	Erbium doped highly birefringent microstructure fiber. , 2013, , .		0
105	Study of mid-infrared laser action in chalcogenide rare earth doped glass with Dy^3+, Pr^3+and Tb^3+. Optical Materials Express, 2012, 2, 1632.	3.0	97
106	Highly birefringent microstructured neodymium doped fiber. , 2012, , .		0
107	Optoelectronic properties of InAs/GaSb superlattices with asymmetric interfaces. Journal of Physics: Conference Series, 2012, 367, 012014.	0.4	1
108	Modeling of Burst Mode 2R Optical Regenerator Cascades for Long-Haul Optical Networks. Journal of Optical Communications and Networking, 2012, 4, 304.	4.8	8

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109	Modelling of chalcogenide glass fibre lasers for MIR generation. , 2012, , .		4
110	Performance evaluation for 2R burst mode optical regenerator cascades in presence of co-channel phase uncorrelated crosstalk. , 2012, , .		2
111	Factors influencing the brightness and beam quality of tapered laser diodes and bars. , 2012, , .		2
112	Polarization-maintaining erbium doped photonic crystal fiber laser. Laser Physics, 2012, 22, 240-247.	1.2	10
113	Theoretical and experimental study of erbium doped photonic crystal fiber ring laser. , 2011, , .		0
114	The effect of the nature of the rare earth additive on chalcogenide glass stability. Proceedings of SPIE, 2011, , .	0.8	5
115	Volume Bragg grating external cavities for the passive phase locking of high-brightness diode laser arrays: theoretical and experimental study. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1289.	2.1	12
116	Crystallization behavior of Dy3+-doped selenide glasses. Journal of Non-Crystalline Solids, 2011, 357, 2453-2462.	3.1	39
117	Optimization of erbium doped photonic crystal fiber laser. , 2011, , .		0
118	Accuracy of three-point finite difference approximations for optical waveguides with step-wise refractive index discontinuities. Opto-electronics Review, 2011, 19, .	2.4	3
119	Introduction to the OQE special issue on Numerical Simulation of Optoelectronic Devices NUSODâ€™10. Optical and Quantum Electronics, 2011, 42, 657-658.	3.3	0
120	Numerical and experimental investigation of upconversion in Er doped sol-gel SiO<inf>2</inf>. , 2011, , .		0
121	Erbium doped photonic crystal fibre laser. , 2011, , .		1
122	Modelling of a simple Dy3+ doped chalcogenide glass fibre laser for mid-infrared light generation. Optical and Quantum Electronics, 2010, 42, 69-79.	3.3	53
123	Improved performance evaluation for DC-coupled burst mode reception in the presence of amplified spontaneous emission noise and interchannel crosstalk. IET Optoelectronics, 2010, 4, 121-132.	3.3	4
124	Experimental verification of the existence of optically induced carrier pulsations in SOAs. Optics Communications, 2010, 283, 1481-1484.	2.1	2
125	Progress in rare-earth-doped mid-infrared fiber lasers. Optics Express, 2010, 18, 26704.	3.4	269
126	Arbitrary truncation order three-point finite difference method for optical waveguides with stepwise refractive index discontinuities. Optics Letters, 2010, 35, 4115.	3.3	15

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127	Theoretical investigation of the role of optically induced carrier pulsations in wave mixing in semiconductor optical amplifiers. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 168.	2.1	4
128	Self-orgaizing external cavity laser diodes. , 2009, , .		0
129	Numerical emulation of the degradation of 975nm high power tapered laser bars. , 2009, , .		1
130	External-cavity designs for phase-coupled laser diode arrays. , 2009, , .		1
131	Design and Simulation of Next-Generation High-Power, High-Brightness Laser Diodes. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 993-1008.	2.9	56
132	Ligand Recognition Processes in the Formation of Homochiral <i>C</i>₃â€Symmetric LnL₃ Complexes of a Chiral Alkoxide. Chemistry - A European Journal, 2009, 15, 8241-8250.	3.3	59
133	Performance analysis of optically preamplified DCâ€coupled burst mode receivers. European Transactions on Telecommunications, 2009, 20, 281-286.	1.2	3
134	Numerical modeling of photorefractive crystals for self-adapting external cavity laser mirrors. Optical and Quantum Electronics, 2009, 41, 681-688.	3.3	0
135	Wavelength-stabilized tapered laser diodes in an external Talbot cavity: simulations and experiments. , 2009, , .		0
136	Reliability assessment and degradation analysis of 1.3â€,Î¼m GaInNAs lasers. Journal of Applied Physics, 2009, 106, 093110.	2.5	1
137	Spectroscopic simulation of tapered laser diodes. , 2009, , .		0
138	Asymmetric feedback external cavity laser diodes: Comparison of experiment and simulation. , 2009, , .		0
139	Design strategies to increase the brightness of gain guided tapered lasers. Optical and Quantum Electronics, 2008, 40, 175-189.	3.3	23
140	Inclusion of thermal boundary resistance in the simulation of high-power 980Ânm ridge waveguide lasers. Optical and Quantum Electronics, 2008, 40, 373-377.	3.3	6
141	Thermal performance investigation of DQW GaInNAs laser diodes. Optical and Quantum Electronics, 2008, 40, 385-390.	3.3	5
142	Numerical modeling of high-power self-organizing external cavity lasers. Optical and Quantum Electronics, 2008, 40, 1117-1121.	3.3	3
143	Static and dynamic performance optimisation of a 1.3ÂÎ¼m GaInNAs ridge waveguide laser. Optical and Quantum Electronics, 2008, 40, 1181-1186.	3.3	3
144	Improvement of the beam quality of a broad-area diode laser using asymmetric feedback from an external cavity. Optical and Quantum Electronics, 2008, 40, 1097-1102.	3.3	9

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145	An investigation of thermal boundary resistance in 1.3 Âµm edgeâ€emitting dilute nitride quantum well laser diodes. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 485-489.	0.8	1
146	Thermally dependent gain of 1.3 Âµm dilute nitride double quantum well lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 490-494.	0.8	1
147	<i>C₃</i>â€Symmetric Lanthanide Tris(alkoxide) Complexes Formed by Preferential Complexation and Their Stereoselective Polymerization of <i>rac</i>â€Lactide. Angewandte Chemie - International Edition, 2008, 47, 6033-6036.	13.8	150
148	Narrow-line coherently combined tapered laser diodes in a Talbot external cavity with a volume Bragg grating. Applied Physics Letters, 2008, 93, 211102.	3.3	42
149	Generalized rectangular finite difference beam propagation method. Applied Optics, 2008, 47, 4280.	2.1	2
150	Wide-angle, finite-difference beam propagation in oblique coordinate system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 138.	1.5	12
151	Static and dynamic performance optimisation of a 1.3 μm GaInNAs ridge waveguide laser. , 2008, , .		0
152	Un-cooled 10 Gb/s dilute-nitride optical transmitters for the 1300 nm wavelength range. , 2008, , .		0
153	High power 980 nm tapered lasers with separate contacts: numerical simulation and comparison with experiments. , 2007, , .		0
154	The impact of hot-phonons on the performance of 1.3Âµm dilute nitride edge-emitting quantum well lasers. Journal of Physics: Conference Series, 2007, 92, 012068.	0.4	10
155	Stability of steady-state high-power semiconductor laser models. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1053.	2.1	8
156	Measurement of optical gain, effective group index and linewidth enhancement factor in 1.3â€…Âµm dilute nitride double-quantum-well lasers. IET Optoelectronics, 2007, 1, 284-288.	3.3	5
157	Simulation of double quantum well GaInNAs laser diodes. IET Optoelectronics, 2007, 1, 259-265.	3.3	23
158	Simulation of Tapered Lasers with Separate Contacts. , 2007, , .		0
159	Thermal performance investigation of DQW GaInNAs laser diodes. , 2007, , .		1
160	Thermal Boundary Resistance in Optoelectronic Devices. , 2007, , .		0
161	Enhanced Brightness of Tapered Laser Diodes Based on an Asymmetric Epitaxial Design. IEEE Photonics Technology Letters, 2007, 19, 1640-1642.	2.5	11
162	The impact of nonequilibrium gain in a spectral laser diode model. Optical and Quantum Electronics, 2007, 38, 1019-1027.	3.3	16

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163	Numerically efficient representation of anisotropic valence bands in semiconductor quantum-well optoelectronic devices. IEEE Photonics Technology Letters, 2006, 18, 1374-1376.	2.5	1
164	Quantitative imaging of intracavity spontaneous emission distributions using tapered lasers fabricated with windowed n-contacts. IEE Proceedings: Optoelectronics, 2006, 153, 2-7.	0.8	6
165	Investigation of non-equilibrium steady-state gain in semiconductor quantum wells. IEE Proceedings: Optoelectronics, 2006, 153, 299-307.	0.8	1
166	Modeling of High Power Semiconductor Lasers. , 2006, , .		0
167	The Impact of Nonequilibrium Gain in a Spectral Laser Model. , 2006, , .		0
168	Bent waveguide cavities. , 2005, , .		1
169	Optimization of epitaxial layer design for high brightness tapered lasers. , 2005, , .		0
170	Clarinet laser: Semiconductor laser design for high-brightness applications. Applied Physics Letters, 2005, 87, 101104.	3.3	6
171	Fourier transform analysis method for modeling the positions and properties of cavity defects in Fabryâ€"PÃ©rot laser diodes. Applied Physics Letters, 2005, 86, 061104.	3.3	3
172	Imaging of spontaneous emission from 980â€‰nm tapered lasers with windowed N-contacts. EPJ Applied Physics, 2004, 27, 455-459.	0.7	2
173	Quasi-3-D simulation of high-brightness tapered lasers. IEEE Journal of Quantum Electronics, 2004, 40, 463-472.	1.9	44
174	Modeling of patterned contacts in tapered lasers. IEEE Journal of Quantum Electronics, 2004, 40, 1384-1388.	1.9	7
175	Optical properties of tapered laser cavities. IEE Proceedings: Optoelectronics, 2003, 150, 246-252.	0.8	8
176	Nonlinear properties of tapered laser cavities. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 823-834.	2.9	57
177	Beam filamentation and maximum optical power in high-brightness tapered lasers. , 2003, , .		2
178	Self-consistent electrical, thermal, and optical model of high-brightness tapered lasers. , 2002, , .		10
179	New Beam Propagation Algorithm for Optical Tapers. AEU - International Journal of Electronics and Communications, 2001, 55, 185-190.	2.9	0
180	Two asymmetrical optical rib waveguides. , 2000, 4239, 235.		1

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181	Structure related beam propagation. Optical and Quantum Electronics, 1999, 31, 689-703.	3.3	22
182	The dispersion characteristics of oblique coordinate beam propagation algorithms. Journal of Lightwave Technology, 1999, 17, 514-518.	4.6	12
183	Novel beam propagation algorithms for tapered optical structures. Journal of Lightwave Technology, 1999, 17, 2379-2388.	4.6	17
184	Novel vectorial analysis of optical waveguides. Journal of Lightwave Technology, 1998, 16, 1329-1335.	4.6	26
185	Finite difference methods in optoelectronic simulation. , 0, , .		0
186	Beam propagation analysis of non-linear tapers. , 0, , .		0
187	Quasi-3D optoelectronic modelling of 730 nm tapered laser diodes. , 0, , .		3
188	Hot-cavity modelling of high-power tapered laser diodes using wide-angle 3D FD-BPM. , 0, , .		2
189	Design of high power pump lasers for C-band EDFA amplifiers. , 0, , .		1
190	A thermal model for silicon-on-insulator-based waveguide modulators. , 0, , .		2
191	High brightness tapered lasers at 732 nm and 975 nm: experiments and numerical analysis. , 0, , .		4
192	Wide angle oblique beam propagation. , 0, , .		0
193	Analysis of beam quality limitations in high brightness gain guided tapered lasers. , 0, , .		0
194	Design and fabrication of high brightness semiconductor tapered lasers with a clarinet-like shape. , 0, , .		0
195	Energy band calculations for dynamic gain models in semiconductor quantum well lasers. , 0, , .		0
196	Losses of the unstable cavity in tapered laser diodes: estimation from numerical simulations. , 0, , .		1