

Martin D Dawson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204
papers

5,988
citations

37
h-index

70
g-index

248
ext. papers

7,272
ext. citations

4
avg, IF

5.51
L-index

#	Paper	IF	Citations
204	10 Gbps wavelength division multiplexing using UV-A, UV-B, and UV-C micro-LEDs. <i>Photonics Research</i> , 2022 , 10, 516	6	4
203	AlGaN Ultraviolet Micro-LEDs. <i>IEEE Journal of Quantum Electronics</i> , 2022 , 1-1	2	4
202	4 Gbps wireless optical communications up to 5 m using a UV-C micro-light-emitting diode array 2021 ,		2
201	High-sensitivity inter-satellite optical communications using chip-scale LED and single-photon detector hardware. <i>Optics Express</i> , 2021 , 29, 10749-10768	3.3	4
200	Optimum Device and Modulation Scheme Selection for Optical Wireless Communications. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2281-2287	4	3
199	Method for inferring the mechanical strain of GaN-on-Si epitaxial layers using optical profilometry and finite element analysis. <i>Optical Materials Express</i> , 2021 , 11, 1643	2.6	4
198	Combining time of flight and photometric stereo imaging for 3D reconstruction of discontinuous scenes. <i>Optics Letters</i> , 2021 , 46, 3612-3615	3	5
197	Micro-LED based optical wireless communications systems. <i>Semiconductors and Semimetals</i> , 2021 , 281-3216		10
196	Synchronization-free top-down illumination photometric stereo imaging using light-emitting diodes and a mobile device. <i>Optics Express</i> , 2021 , 29, 1502-1515	3.3	2
195	Micro-LEDs for biomedical applications. <i>Semiconductors and Semimetals</i> , 2021 , 106, 57-94	0.6	2
194	LED Excitation of an Imaging Cytometer for Bead-Based Immunoassay. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 892-895	2.2	0
193	High precision integrated photonic thermometry enabled by a transfer printed diamond resonator on GaN waveguide chip. <i>Optics Express</i> , 2021 , 29, 29095-29106	3.3	2
192	Spatially dense integration of micron-scale devices from multiple materials on a single chip via transfer-printing. <i>Optical Materials Express</i> , 2021 , 11, 3567	2.6	6
191	Over 10 Gbps VLC for Long-Distance Applications Using a GaN-Based Series-Biased Micro-LED Array. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 499-502	2.2	25
190	Characterization, Selection, and Microassembly of Nanowire Laser Systems. <i>Nano Letters</i> , 2020 , 20, 1862-1868	11.68	12
189	Three-dimensional cross-nanowire networks recover full terahertz state. <i>Science</i> , 2020 , 368, 510-513	33.3	36
188	Size-Dependent Characterization of Deep UV Micro-Light-Emitting Diodes 2020 ,		3

187	Direct integration of micro-LEDs and a SPAD detector on a silicon CMOS chip for data communications and time-of-flight ranging. <i>Optics Express</i> , 2020 , 28, 6909-6917	3.3	11
186	Gigabit per second visible light communication based on AlGaInP red micro-LED micro-transfer printed onto diamond and glass. <i>Optics Express</i> , 2020 , 28, 12149-12156	3.3	11
185	Transfer printing of AlGaAs-on-SOI microdisk resonators for selective mode coupling and low-power nonlinear processes. <i>Optics Letters</i> , 2020 , 45, 881-884	3	9
184	All-optical tuning of a diamond micro-disk resonator on silicon. <i>Photonics Research</i> , 2020 , 8, 318	6	5
183	Suspension and transfer printing of ZnCdMgSe membranes from an InP substrate. <i>Optical Materials Express</i> , 2020 , 10, 3328	2.6	
182	LED Excitation of an On-chip Imaging Flow Cytometer for Bead-based Immunoassay 2020 ,		1
181	Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-10	1.8	16
180	Automated Nanoscale Absolute Accuracy Alignment System for Transfer Printing. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10326-10332	5.6	8
179	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. <i>ACS Nano</i> , 2020 , 14, 15293-15305	16.7	2
178	44-1: Invited Paper: Micro-LEDs for Technological Convergence between Displays, Optical Communications, and Sensing and Imaging Systems. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 638-641	0.5	1
177	Design of Linear and Star-Shaped Macromolecular Organic Semiconductors for Photonic Applications. <i>Accounts of Chemical Research</i> , 2019 , 52, 1665-1674	24.3	16
176	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 821-824	2.2	13
175	Ultra-Low Cost High-Density Two-Dimensional Visible-Light Optical Interconnects. <i>Journal of Lightwave Technology</i> , 2019 , 37, 3305-3314	4	2
174	Multisite microLED optrode array for neural interfacing. <i>Neurophotonics</i> , 2019 , 6, 035010	3.9	19
173	Top-down Illumination Photometric Stereo Imaging Using Light-Emitting Diodes and a Mobile Device 2019 ,		1
172	Scalable visible light communications with a micro-LED array projector and high-speed smartphone camera. <i>Optics Express</i> , 2019 , 27, 15585-15594	3.3	10
171	Multispectral time-of-flight imaging using light-emitting diodes. <i>Optics Express</i> , 2019 , 27, 35485-35498	3.3	5
170	On-chip GaN-based dual-color micro-LED arrays and their application in visible light communication. <i>Optics Express</i> , 2019 , 27, A1517-A1528	3.3	25

169	Pump-power-dependence of a CsPbBr ₃ -in-Cs ₄ PbBr ₆ quantum dot color converter. <i>Optical Materials Express</i> , 2019 , 9, 3504	2.6	4
168	1 Gbps free-space deep-ultraviolet communications based on III-nitride micro-LEDs emitting at 262 nm. <i>Photonics Research</i> , 2019 , 7, B41	6	52
167	A wearable phototherapy device utilizing micro-LEDs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 67-70	0.9	1
166	Microscale Automated Alignment and Spatial Tracking through Structured Illumination 2019 ,		1
165	High-Speed Visible Light Communication Based on a III-Nitride Series-Biased Micro-LED Array. <i>Journal of Lightwave Technology</i> , 2019 , 37, 1180-1186	4	37
164	Transfer printing of semiconductor nanowire lasers. <i>IET Optoelectronics</i> , 2018 , 12, 30-35	1.5	4
163	The Impact of Solar Irradiance on Visible Light Communications. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2376-2386	4	58
162	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-11	1.8	5
161	Ultra-wide coverage VLC system with alignment-free receiver 2018 ,		4
160	Positioning and Data Broadcasting Using Illumination Pattern Sequences Displayed by LED Arrays. <i>IEEE Transactions on Communications</i> , 2018 , 66, 5582-5592	6.9	4
159	High accuracy transfer printing of single-mode membrane silicon photonic devices. <i>Optics Express</i> , 2018 , 26, 16679-16688	3.3	18
158	Diode-pumped femtosecond Tm-doped LuScO laser near 2.1 μ m. <i>Optics Letters</i> , 2018 , 43, 1287-1290	3	13
157	Thin film diamond membranes bonded on-demand with SOI ring resonators. <i>Diamond and Related Materials</i> , 2018 , 88, 215-221	3.5	10
156	LED-Based Photometric Stereo-Imaging Employing Frequency-Division Multiple Access 2018 ,		1
155	Energy Scaling, Second Stokes Oscillation, and Raman Gain-Guiding in Monolithic Diamond Raman Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2018 , 54, 1-8	2	1
154	Temporal Encoding to Reject Background Signals in a Low Complexity, Photon Counting Communication Link. <i>Materials</i> , 2018 , 11,	3.5	3
153	Vertically Emitting Indium Phosphide Nanowire Lasers. <i>Nano Letters</i> , 2018 , 18, 3414-3420	11.5	25
152	Positioning and Space-Division Multiple Access Enabled by Structured Illumination With Light-Emitting Diodes. <i>Journal of Lightwave Technology</i> , 2017 , 35, 2339-2345	4	10

151	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4358-4365	4	32
150	Characteristics of GaN-based light emitting diodes with different thicknesses of buffer layer grown by HVPE and MOCVD. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 075101	3	10
149	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-10	3.8	15
148	A review of gallium nitride LEDs for multi-gigabit-per-second visible light data communications. <i>Semiconductor Science and Technology</i> , 2017 , 32, 023001	1.8	146
147	Integration of Semiconductor Nanowire Lasers with Polymeric Waveguide Devices on a Mechanically Flexible Substrate. <i>Nano Letters</i> , 2017 , 17, 5990-5994	11.5	39
146	Large scale matching of function to the genetic identity of retinal ganglion cells. <i>Scientific Reports</i> , 2017 , 7, 15395	4.9	5
145	High-Speed Integrated Digital to Light Converter for Short Range Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 118-121	2.2	14
144	Fluorene-containing tetraphenylethylene molecules as lasing materials. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 734-746	2.5	6
143	Experimental demonstration of generalised space shift keying for visible light communication 2017 ,		3
142	Design, Fabrication, and Application of GaN-Based Micro-LED Arrays With Individual Addressing by N-Electrodes. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8	18
141	Energy scaling of yellow emission from monolithic diamond Raman lasers 2017 ,		1
140	Development, performance and application of novel GaN-based micro-LED arrays with individually addressable n-electrodes 2017 ,		1
139	Video-rate photometric stereo-imaging with general lighting luminaires 2017 ,		1
138	1.9 μ m waveguide laser fabricated by ultrafast laser inscription in Tm:LuO ceramic. <i>Optics Express</i> , 2017 , 25, 14910-14917	3.3	27
137	InGaN μ LEDs integrated onto colloidal quantum dot functionalized ultra-thin glass. <i>Optics Express</i> , 2017 , 25, 19179-19184	3.3	12
136	Manufacturing with light - micro-assembly of opto-electronic microstructures. <i>Optics Express</i> , 2017 , 25, 28838	3.3	12
135	Towards 10 Gb/s orthogonal frequency division multiplexing-based visible light communication using a GaN violet micro-LED. <i>Photonics Research</i> , 2017 , 5, A35	6	206
134	CMOS-integrated GaN LED array for discrete power level stepping in visible light communications. <i>Optics Express</i> , 2017 , 25, A338-A345	3.3	8

133	A high speed generalised space shift keying link with micro-LEDs and CMOS APD receiver 2016 ,		3
132	Depth-specific optogenetic control in vivo with a scalable, high-density μ LED neural probe. <i>Scientific Reports</i> , 2016 , 6, 28381	4.9	84
131	High speed spatial encoding enabled by CMOS-controlled micro-LED arrays 2016 ,		7
130	Visible light communication using InGaN optical sources with AlInGaP nanomembrane down-converters. <i>Optics Express</i> , 2016 , 24, 10020-9	3.3	10
129	Large radius of curvature micro-lenses on single crystal diamond for application in monolithic diamond Raman lasers. <i>Diamond and Related Materials</i> , 2016 , 65, 37-41	3.5	20
128	Transfer Printing of Semiconductor Nanowires with Lasing Emission for Controllable Nanophotonic Device Fabrication. <i>ACS Nano</i> , 2016 , 10, 3951-8	16.7	36
127	. <i>Journal of Lightwave Technology</i> , 2016 , 34, 2049-2055	4	41
126	Fabrication, characterization and applications of flexible vertical InGaN micro-light emitting diode arrays. <i>Optics Express</i> , 2016 , 24, 699-707	3.3	39
125	RGB and white-emitting organic lasers on flexible glass. <i>Optics Express</i> , 2016 , 24, 2273-80	3.3	20
124	Aging characteristics of blue InGaN micro-light emitting diodes at an extremely high current density of 3.5 kA cm ² . <i>Semiconductor Science and Technology</i> , 2016 , 31, 045005	1.8	26
123	Organic Semiconductor Laser Biosensor: Design and Performance Discussion. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 6-14	3.8	11
122	A diamond-based, hybrid optrode for multisite optogenetics 2016 ,		1
121	CdS(x)Se(1-x)/ZnS semiconductor nanocrystal laser with sub 10kW/cm(2) threshold and 40nJ emission output at 600 nm. <i>Optics Express</i> , 2016 , 24, A146-53	3.3	7
120	High Bandwidth GaN-Based Micro-LEDs for Multi-Gb/s Visible Light Communications. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2023-2026	2.2	206
119	Control of edge bulge evolution during photoresist reflow and its application to diamond microlens fabrication. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2016 , 34, 021602	1.3	11
118	GaN based μ LED drive circuit for Visible Light Communication (VLC) with improved linearity using on-chip optical feedback 2016 ,		1
117	Control of automated systems with a structured light illumination source 2016 ,		3
116	Data transmission for high-bandwidth neural interfacing using visible light communication 2016 ,		1

115	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. <i>Journal of Lightwave Technology</i> , 2016 , 34, 3047-3052	4	139
114	Active-Matrix GaN Micro Light-Emitting Diode Display With Unprecedented Brightness. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 1918-1925	2.9	87
113	Hybrid GaN LED with capillary-bonded III-V MQW color-converting membrane for visible light communications. <i>Semiconductor Science and Technology</i> , 2015 , 30, 035012	1.8	24
112	Integrated multiple-input multiple-output visible light communications systems: recent progress and results 2015 ,		1
111	Heterogeneous integration of gallium nitride light-emitting diodes on diamond and silica by transfer printing. <i>Optics Express</i> , 2015 , 23, 9329-38	3.3	40
110	Monolithic diamond Raman laser. <i>Optics Letters</i> , 2015 , 40, 930-3	3	34
109	Gb/s single-LED OFDM-based VLC using violet and UV Gallium nitride LEDs 2015 ,		6
108	Multi-Gigabit integrated MIMO visible light communication system: Progress and updates 2015 ,		2
107	Demonstration of 2.3 Gb/s RGB white-light VLC using polymer based colour-converters and GaN micro-LEDs 2015 ,		15
106	Ultralow-threshold up-converted lasing in oligofluorenes with tailored strong nonlinear absorption. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12018-12025	7.1	18
105	Single-chip discrete multitone generation 2015 ,		4
104	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs 2015 ,		11
103	Concept of a GaN-LED-based positioning system using structured illumination 2015 ,		3
102	Hole transport assisted by the piezoelectric field in In _{0.4} Ga _{0.6} N/GaN quantum wells under electrical injection. <i>Journal of Applied Physics</i> , 2015 , 118, 125709	2.5	6
101	Optogenetic activation of neocortical neurons in vivo with a sapphire-based micro-scale LED probe. <i>Frontiers in Neural Circuits</i> , 2015 , 9, 25	3.5	54
100	High-Speed Integrated Visible Light Communication System: Device Constraints and Design Considerations. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 1750-1757	14.2	84
99	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3571-3576	4	24
98	An oligofluorene truxene based distributed feedback laser for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 679-86	11.8	22

97	Characteristics and applications of micro-pixelated GaN-based light emitting diodes on Si substrates. <i>Journal of Applied Physics</i> , 2014 , 115, 033112	2.5	80
96	Nanosecond colloidal quantum dot lasers for sensing. <i>Optics Express</i> , 2014 , 22, 7308-19	3.3	24
95	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride μLED . <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 637-640	2.2	546
94	Micro-structured light emission from planar InGaN light-emitting diodes. <i>Semiconductor Science and Technology</i> , 2014 , 29, 015005	1.8	6
93	Planar micro- and nano-patterning of GaN light-emitting diodes: Guidelines and limitations. <i>Journal of Applied Physics</i> , 2014 , 115, 084503	2.5	4
92	Visible Light Communication Using a Blue GaN μLED and Fluorescent Polymer Color Converter. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 2035-2038	2.2	84
91	Optical spatial modulation OFDM using micro LEDs 2014 ,		4
90	Imaging-MIMO visible light communication system using μLED s and integrated receiver 2014 ,		11
89	Optoelectronic tweezers system for single cell manipulation and fluorescence imaging of live immune cells. <i>Optics Express</i> , 2014 , 22, 1372-80	3.3	29
88	Diode-pumped, mechanically-flexible polymer DFB laser encapsulated by glass membranes. <i>Optics Express</i> , 2014 , 22, 24160-8	3.3	17
87	Temperature-dependent efficiency droop of blue InGaN micro-light emitting diodes. <i>Applied Physics Letters</i> , 2014 , 105, 171107	3.4	34
86	Wavelength-tunable colloidal quantum dot laser on ultra-thin flexible glass. <i>Applied Physics Letters</i> , 2014 , 104, 141108	3.4	23
85	Size-dependent capacitance study on InGaN-based micro-light-emitting diodes. <i>Journal of Applied Physics</i> , 2014 , 116, 044512	2.5	37
84	Direct LED writing of submicron resist patterns: Towards the fabrication of individually-addressable InGaN submicron stripe-shaped LED arrays. <i>Nano Research</i> , 2014 , 7, 1849-1860	10	6
83	Hybrid organic semiconductor lasers for bio-molecular sensing. <i>Faraday Discussions</i> , 2014 , 174, 369-81	3.6	4
82	An organic semiconductor laser based on star-shaped truxene-core oligomers for refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 132-139	8.5	27
81	1.5 Gbit/s Multi-Channel Visible Light Communications Using CMOS-Controlled GaN-Based LEDs. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1211-1216	4	113
80	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. <i>Laser and Photonics Reviews</i> , 2013 , 7, 1065-1078	8.3	47

79	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1400108-1400108	3.8	43
78	Thermal Management of Lasers and LEDs Using Diamond 2013 , 353-384		1
77	Modulation bandwidth studies of recombination processes in blue and green InGaN quantum well micro-light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 091103	3.4	50
76	Thermal and optical characterization of micro-LED probes for in vivo optogenetic neural stimulation. <i>Optics Letters</i> , 2013 , 38, 992-4	3	101
75	Highly-photostable and mechanically flexible all-organic semiconductor lasers. <i>Optical Materials Express</i> , 2013 , 3, 584	2.6	18
74	Power-scaling properties of apertured microchip vertical external-cavity surface-emitting lasers. <i>Electronics Letters</i> , 2013 , 49, 146-148	1.1	
73	On-chip optical stimulation and electrical recording from cells. <i>Journal of Biomedical Optics</i> , 2013 , 18, 111402	3.5	11
72	Modification of emission wavelength in organic random lasers based on photonic glass. <i>Organic Electronics</i> , 2012 , 13, 1129-1135	3.5	9
71	. <i>Journal of Lightwave Technology</i> , 2012 , 30, 61-67	4	226
70	Mechanically Flexible Organic Semiconductor Laser Array. <i>IEEE Photonics Journal</i> , 2012 , 4, 684-690	1.8	8
69	. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 328-337	2	46
68	Stripe Excitation of High Gain Media With Disorder. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 1184-1192		1
67	Sub-Micron Lithography Using InGaN Micro-LEDs: Mask-Free Fabrication of LED Arrays. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 2221-2224	2.2	24
66	Corrections to Characterization of Single-Crystal Synthetic Diamond for Multi-Watt Continuous-Wave Raman Lasers [Mar 12 328-337]. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 1494-1494		1
65	Size-dependent efficiency and efficiency droop of blue InGaN micro-light emitting diodes. <i>Applied Physics Letters</i> , 2012 , 101, 231110	3.4	156
64	Optical properties of single crystal diamond microfilms fabricated by ion implantation and lift-off processing. <i>Diamond and Related Materials</i> , 2012 , 21, 16-23	3.5	11
63	Generation of primary hepatocyte microarrays by piezoelectric printing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 89, 126-32	6	15
62	CMOS-Controlled Color-Tunable Smart Display. <i>IEEE Photonics Journal</i> , 2012 , 4, 1639-1646	1.8	33

61	Organic polymer composite random laser operating underwater. <i>Optics Letters</i> , 2012 , 37, 5160-2	3	3
60	Colloidal quantum dot nanocomposites for visible wavelength conversion of modulated optical signals. <i>Optical Materials Express</i> , 2012 , 2, 250	2.6	33
59	Hybrid organic/GaN photonic crystal light-emitting diode. <i>Applied Physics Letters</i> , 2012 , 101, 141122	3.4	6
58	Directly color-tunable smart display based on a CMOS-controlled micro-LED array 2012 ,		3
57	High-bandwidth parallel data transmission using GaN/CMOS micro-LED arrays 2012 ,		2
56	Large cross-section edge-coupled diamond waveguides. <i>Diamond and Related Materials</i> , 2011 , 20, 564-567		16
55	Dip-pen nanolithography of nanostructured oligofluorene truxenes in a photo-curable host matrix. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14209		7
54	Emission characteristics of photonic crystal light-emitting diodes. <i>Applied Optics</i> , 2011 , 50, 3233-9	0.2	6
53	Miniaturized optoelectronic tweezers controlled by GaN micro-pixel light emitting diode arrays. <i>Optics Express</i> , 2011 , 19, 2720-8	3.3	30
52	Colloidal quantum dot random laser. <i>Optics Express</i> , 2011 , 19, 2996-3003	3.3	92
51	1.6 W continuous-wave Raman laser using low-loss synthetic diamond. <i>Optics Express</i> , 2011 , 19, 6938-44	3.3	28
50	Broadly tunable femtosecond mode-locking in a Tm:KYW laser near 2 μ m. <i>Optics Express</i> , 2011 , 19, 9995-10000	3.3	58
49	Tunable continuous-wave diamond Raman laser. <i>Optics Express</i> , 2011 , 19, 24165-70	3.3	27
48	Continuous-wave Raman laser pumped within a semiconductor disk laser cavity. <i>Optics Letters</i> , 2011 , 36, 1083-5	3	20
47	Ultra-portable explosives sensor based on a CMOS fluorescence lifetime analysis micro-system. <i>AIP Advances</i> , 2011 , 1, 032115	1.5	13
46	Diamond Raman Waveguide Lasers: Completely Analytical Design Optimization Incorporating Scattering Losses. <i>IEEE Journal of Quantum Electronics</i> , 2011 , 47, 1069-1077	2	15
45	InGaN micro-pixelated light-emitting diodes with nano-textured surfaces and modified emission profiles. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 389-393	2.6	8
44	Inkjet-printed silver nanoparticle electrodes on GaN-based micro-structured light-emitting diodes. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 1003-1009	2.6	5

43	Laser action in a surface-structured free-standing membrane based on a π -conjugated polymer-composite. <i>Organic Electronics</i> , 2011 , 12, 62-69	3.5	37
42	GaN directional couplers for integrated quantum photonics. <i>Applied Physics Letters</i> , 2011 , 99, 161119	3.4	46
41	Flexible distributed-feedback colloidal quantum dot laser. <i>Applied Physics Letters</i> , 2011 , 99, 241103	3.4	21
40	2011 ,		2
39	Amplified spontaneous emission in free-standing membranes incorporating star-shaped monodisperse π -conjugated truxene oligomers. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 035503	1.7	15
38	Thermal Management, Structure Design, and Integration Considerations for VECSELs 2010 , 73-117		8
37	Passive Mode-Locking of a Ti : Sapphire Laser by InGaP Quantum-Dot Saturable Absorber. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 209-211	2.2	15
36	High-Speed Visible Light Communications Using Individual Pixels in a Micro Light-Emitting Diode Array. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1346-1348	2.2	161
35	Multi-site optical excitation using ChR2 and micro-LED array. <i>Journal of Neural Engineering</i> , 2010 , 7, 16004		184
34	A Vertically Integrated CMOS Microsystem for Time-Resolved Fluorescence Analysis. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010 , 4, 437-44	5.1	23
33	Size-dependent light output, spectral shift, and self-heating of 400 nm InGaN light-emitting diodes. <i>Journal of Applied Physics</i> , 2010 , 107, 013103	2.5	197
32	An intra-cavity Raman laser using synthetic single-crystal diamond. <i>Optics Express</i> , 2010 , 18, 16765-70	3.3	32
31	Flexible blue-emitting encapsulated organic semiconductor DFB laser. <i>Optics Express</i> , 2010 , 18, 25535-45	3.3	53
30	Continuous-wave diamond Raman laser. <i>Optics Letters</i> , 2010 , 35, 2994-6	3	33
29	Photonic quasi-crystal light emitting diodes: comparisons of device performance with pattern pitch 2010 ,		2
28	Nanofabrication of gallium nitride photonic crystal light-emitting diodes. <i>Microelectronic Engineering</i> , 2010 , 87, 2200-2207	2.5	16
27	Low-threshold organic laser based on an oligofluorene truxene with low optical losses. <i>Applied Physics Letters</i> , 2009 , 94, 243304	3.4	89
26	A CMOS Time-Resolved Fluorescence Lifetime Analysis Micro-System. <i>Sensors</i> , 2009 , 9, 9255-74	3.8	32

25	Direct Laser Writing of Nanosized Oligofluorene Truxenes in UV-Transparent Photoresist Microstructures. <i>Advanced Materials</i> , 2009 , 21, 781-785	24	23
24	Fabrication and characterisation of microscale air bridges in conductive gallium nitride. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 495-501	2.6	1
23	Optobionic vision--a new genetically enhanced light on retinal prosthesis. <i>Journal of Neural Engineering</i> , 2009 , 6, 035007	5	84
22	Singly-resonant sum frequency generation of visible light in a semiconductor disk laser. <i>Optics Express</i> , 2009 , 17, 6010-7	3.3	6
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