

Martin D Dawson

List of Publications by Year in descending order

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242
papers

8,065
citations

57758

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83
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248
all docs

248
docs citations

248
times ranked

6021
citing authors

#	ARTICLE	IF	CITATIONS
1	10â€‰%â€‰Gbps wavelength division multiplexing using UV-A, UV-B, and UV-C micro-LEDs. Photonics Research, 2022, 10, 516.	7.0	18
2	AlGaIn Ultraviolet Micro-LEDs. IEEE Journal of Quantum Electronics, 2022, 58, 1-14.	1.9	18
3	Nanowires: a New Horizon for Polarization-resolved Terahertz Time-domain Spectroscopy. , 2021, , .		0
4	Micro-LED based optical wireless communications systems. Semiconductors and Semimetals, 2021, , 281-321.	0.7	12
5	Synchronization-free top-down illumination photometric stereo imaging using light-emitting diodes and a mobile device. Optics Express, 2021, 29, 1502.	3.4	6
6	Micro-LEDs for biomedical applications. Semiconductors and Semimetals, 2021, 106, 57-94.	0.7	5
7	High-sensitivity inter-satellite optical communications using chip-scale LED and single-photon detector hardware. Optics Express, 2021, 29, 10749.	3.4	7
8	Optimum Device and Modulation Scheme Selection for Optical Wireless Communications. Journal of Lightwave Technology, 2021, 39, 2281-2287.	4.6	8
9	Method for inferring the mechanical strain of GaN-on-Si epitaxial layers using optical profilometry and finite element analysis. Optical Materials Express, 2021, 11, 1643.	3.0	7
10	Combining Time of Flight and Photometric Stereo Imaging for 3D Reconstruction of Discontinuous Scenes. Optics Letters, 2021, 46, 3612-3615.	3.3	7
11	Terahertz Full-polarization-state Detection by Nanowires. , 2021, , .		0
12	LED Excitation of an Imaging Cytometer for Bead-Based Immunoassay. IEEE Photonics Technology Letters, 2021, 33, 892-895.	2.5	1
13	High precision integrated photonic thermometry enabled by a transfer printed diamond resonator on GaN waveguide chip. Optics Express, 2021, 29, 29095.	3.4	6
14	Spatially dense integration of micron-scale devices from multiple materials on a single chip via transfer-printing. Optical Materials Express, 2021, 11, 3567.	3.0	17
15	Transfer-printing enables multi-material assembly of integrated photonic systems. , 2021, , .		0
16	4 Gbps wireless optical communications up to 5 m using a UV-C micro-light-emitting diode array. , 2021, , .		6
17	Enhancing self-assembled colloidal quantum dot microsphere lasers. , 2021, , .		5
18	Sub-micron-accuracy automated position and rotation registration method for transferred devices. , 2021, , .		1

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19	Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	38
20	Automated Nanoscale Absolute Accuracy Alignment System for Transfer Printing. ACS Applied Nano Materials, 2020, 3, 10326-10332.	5.0	27
21	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. ACS Nano, 2020, 14, 15293-15305.	14.6	5
22	44€1: Invited Paper: Micro€LEDs for Technological Convergence between Displays, Optical Communications, and Sensing and Imaging Systems. Digest of Technical Papers SID International Symposium, 2020, 51, 638-641.	0.3	2
23	Multicolor laser oscillation in a single self-assembled colloidal quantum dot microsphere. , 2020, , .		4
24	Combined Time of Flight and Photometric Stereo Imaging for Surface Reconstruction. , 2020, , .		0
25	Over 10 Gbps VLC for Long-Distance Applications Using a GaN-Based Series-Biased Micro-LED Array. IEEE Photonics Technology Letters, 2020, 32, 499-502.	2.5	62
26	Characterization, Selection, and Microassembly of Nanowire Laser Systems. Nano Letters, 2020, 20, 1862-1868.	9.1	17
27	Three-dimensional cross-nanowire networks recover full terahertz state. Science, 2020, 368, 510-513.	12.6	81
28	Size-Dependent Characterization of Deep UV Micro-Light-Emitting Diodes. , 2020, , .		5
29	Direct integration of micro-LEDs and a SPAD detector on a silicon CMOS chip for data communications and time-of-flight ranging. Optics Express, 2020, 28, 6909.	3.4	20
30	Gigabit per second visible light communication based on AlGaInP red micro-LED micro-transfer printed onto diamond and glass. Optics Express, 2020, 28, 12149.	3.4	20
31	Transfer printing of AlGaAs-on-SOI microdisk resonators for selective mode coupling and low-power nonlinear processes. Optics Letters, 2020, 45, 881.	3.3	11
32	All-optical tuning of a diamond micro-disk resonator on silicon. Photonics Research, 2020, 8, 318.	7.0	10
33	Suspension and transfer printing of ZnCdMgSe membranes from an InP substrate. Optical Materials Express, 2020, 10, 3328.	3.0	0
34	LED Excitation of an On-chip Imaging Flow Cytometer for Bead-based Immunoassay. , 2020, , .		1
35	Integration of an LED/SPAD Optical Wireless Transceiver with CubeSat On-board Systems. , 2020, , .		0
36	Ultra-Low Cost High-Density Two-Dimensional Visible-Light Optical Interconnects. Journal of Lightwave Technology, 2019, 37, 3305-3314.	4.6	4

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37	Design of Linear and Star-Shaped Macromolecular Organic Semiconductors for Photonic Applications. Accounts of Chemical Research, 2019, 52, 1665-1674.	15.6	26
38	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. IEEE Photonics Technology Letters, 2019, 31, 821-824.	2.5	28
39	A wearable phototherapy device utilizing micro-LEDs. , 2019, 2019, 67-70.		3
40	Microscale Automated Alignment and Spatial Tracking through Structured Illumination. , 2019, , .		1
41	Micro-LED Arrays for Spatio-Temporally Correlated Multi-Mode Operation. , 2019, , .		0
42	Micro-LED Waveguide for Fluorescence Applications. , 2019, , .		0
43	Towards using LED Arrays for Relative Alignment of Cube Satellite Clusters. , 2019, , .		2
44	High-Speed Visible Light Communication Based on a III-Nitride Series-Biased Micro-LED Array. Journal of Lightwave Technology, 2019, 37, 1180-1186.	4.6	53
45	Multisite microLED optrode array for neural interfacing. Neurophotonics, 2019, 6, 1.	3.3	43
46	Top-down Illumination Photometric Stereo Imaging Using Light-Emitting Diodes and a Mobile Device. , 2019, , .		5
47	Scalable visible light communications with a micro-LED array projector and high-speed smartphone camera. Optics Express, 2019, 27, 15585.	3.4	21
48	Multispectral time-of-flight imaging using light-emitting diodes. Optics Express, 2019, 27, 35485.	3.4	12
49	On-chip GaN-based dual-color micro-LED arrays and their application in visible light communication. Optics Express, 2019, 27, A1517.	3.4	44
50	Pump-power-dependence of a CsPbBr ₃ -in-Cs ₄ PbBr ₆ quantum dot color converter. Optical Materials Express, 2019, 9, 3504.	3.0	5
51	1â€Gb/s free-space deep-ultraviolet communications based on III-nitride micro-LEDs emitting at 262â€nm. Photonics Research, 2019, 7, B41.	7.0	84
52	Thermally tuneable integrated diamond micro-disk resonators fabricated by micro-assembly. , 2019, , .		0
53	Transfer printing of semiconductor nanowire lasers. IET Optoelectronics, 2018, 12, 30-35.	3.3	7
54	The Impact of Solar Irradiance on Visible Light Communications. Journal of Lightwave Technology, 2018, 36, 2376-2386.	4.6	89

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55	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	12
56	Ultra-wide coverage VLC system with alignment-free receiver. , 2018, , .		5
57	LED-Based Photometric Stereo-Imaging Employing Frequency-Division Multiple Access. , 2018, , .		3
58	Lighting as a Service That Provides Simultaneous 3D Imaging and Optical Wireless Connectivity. , 2018, , .		2
59	Luminescence Dynamics of CsPbBr ₃ Quantum Dot-Based Color Converters. , 2018, , .		0
60	Water Resistant Caesium Lead Bromide Crystal Composites. , 2018, , .		0
61	Hyperspectral Imaging Under Low Illumination with a Single Photon Camera. , 2018, , .		1
62	Towards 3D optical integration by micro-transfer printing of ultra-thin membrane devices. , 2018, , .		0
63	Digital Illumination in Microscale Direct-Writing Photolithography: Challenges and Trade-Offs. , 2018, , .		2
64	Energy Scaling, Second Stokes Oscillation, and Raman Gain-Guiding in Monolithic Diamond Raman Lasers. IEEE Journal of Quantum Electronics, 2018, 54, 1-8.	1.9	1
65	Temporal Encoding to Reject Background Signals in a Low Complexity, Photon Counting Communication Link. Materials, 2018, 11, 1671.	2.9	4
66	Vertically Emitting Indium Phosphide Nanowire Lasers. Nano Letters, 2018, 18, 3414-3420.	9.1	33
67	Positioning and Data Broadcasting Using Illumination Pattern Sequences Displayed by LED Arrays. IEEE Transactions on Communications, 2018, 66, 5582-5592.	7.8	11
68	High accuracy transfer printing of single-mode membrane silicon photonic devices. Optics Express, 2018, 26, 16679.	3.4	33
69	Diode-pumped femtosecond Tm ³⁺ -doped LuScO ₃ laser near 2100 nm. Optics Letters, 2018, 43, 1287.	3.3	24
70	Thin film diamond membranes bonded on-demand with SOI ring resonators. Diamond and Related Materials, 2018, 88, 215-221.	3.9	15
71	High precision transfer printing for hybrid integration of multi-material waveguide devices. , 2018, , .		0
72	High-aggregate-capacity visible light communication links using stacked multimode polymer waveguides and micro-pixelated LED arrays. , 2018, , .		1

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73	Positioning and Space-Division Multiple Access Enabled by Structured Illumination With Light-Emitting Diodes. <i>Journal of Lightwave Technology</i> , 2017, 35, 2339-2345.	4.6	20
74	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. <i>Journal of Lightwave Technology</i> , 2017, 35, 4358-4365.	4.6	40
75	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.	2.8	17
76	Gb/s Visible Light Communications With Colloidal Quantum Dot Color Converters. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-10.	2.9	25
77	A review of gallium nitride LEDs for multi-gigabit-per-second visible light data communications. <i>Semiconductor Science and Technology</i> , 2017, 32, 023001.	2.0	205
78	Integration of Semiconductor Nanowire Lasers with Polymeric Waveguide Devices on a Mechanically Flexible Substrate. <i>Nano Letters</i> , 2017, 17, 5990-5994.	9.1	55
79	Large scale matching of function to the genetic identity of retinal ganglion cells. <i>Scientific Reports</i> , 2017, 7, 15395.	3.3	6
80	High-Speed Integrated Digital to Light Converter for Short Range Visible Light Communication. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 118-121.	2.5	16
81	Fluorene-containing tetraphenylethylene molecules as lasing materials. <i>Journal of Polymer Science Part A</i> , 2017, 55, 734-746.	2.3	8
82	Experimental demonstration of generalised space shift keying for visible light communication. , 2017, , .		3
83	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.	2.0	22
84	Energy scaling of yellow emission from monolithic diamond Raman lasers. , 2017, , .		1
85	Development, performance and application of novel GaN-based micro-LED arrays with individually addressable n-electrodes. , 2017, , .		1
86	Video-rate photometric stereo-imaging with general lighting luminaires. , 2017, , .		2
87	19 Åµm waveguide laser fabricated by ultrafast laser inscription in Tm:Lu ₂ O ₃ ceramic. <i>Optics Express</i> , 2017, 25, 14910.	3.4	39
88	InGaN ÅµLEDs integrated onto colloidal quantum dot functionalized ultra-thin glass. <i>Optics Express</i> , 2017, 25, 19179.	3.4	12
89	Manufacturing with light - micro-assembly of opto-electronic microstructures. <i>Optics Express</i> , 2017, 25, 28838.	3.4	23
90	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.	7.0	275

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91	CMOS-integrated GaN LED array for discrete power level stepping in visible light communications. Optics Express, 2017, 25, A338.	3.4	10
92	CdS _x Se _{1-x} /ZnS semiconductor nanocrystal laser with sub 10kW/cm ² threshold and 40nJ emission output at 600 nm. Optics Express, 2016, 24, A146.	3.4	8
93	High Bandwidth GaN-Based Micro-LEDs for Multi-Gb/s Visible Light Communications. IEEE Photonics Technology Letters, 2016, 28, 2023-2026.	2.5	276
94	Control of edge bulge evolution during photoresist reflow and its application to diamond microlens fabrication. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 021602.	1.2	12
95	GaN based $\hat{1}/4$ LED drive circuit for Visible Light Communication (VLC) with improved linearity using on-chip optical feedback. , 2016, , .		1
96	Control of automated systems with a structured light illumination source. , 2016, , .		3
97	Data transmission for high-bandwidth neural interfacing using visible light communication. , 2016, , .		1
98	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052.	4.6	187
99	A high speed generalised space shift keying link with micro-LEDs and CMOS APD receiver. , 2016, , .		3
100	Depth-specific optogenetic control in vivo with a scalable, high-density $\hat{1}/4$ LED neural probe. Scientific Reports, 2016, 6, 28381.	3.3	118
101	High speed spatial encoding enabled by CMOS-controlled micro-LED arrays. , 2016, , .		8
102	Visible light communication using InGaN optical sources with AlInGaP nanomembrane down-converters. Optics Express, 2016, 24, 10020.	3.4	11
103	Large radius of curvature micro-lenses on single crystal diamond for application in monolithic diamond Raman lasers. Diamond and Related Materials, 2016, 65, 37-41.	3.9	25
104	Transfer Printing of Semiconductor Nanowires with Lasing Emission for Controllable Nanophotonic Device Fabrication. ACS Nano, 2016, 10, 3951-3958.	14.6	50
105	Wireless Visible Light Communications Employing Feed-Forward Pre-Equalization and PAM-4 Modulation. Journal of Lightwave Technology, 2016, 34, 2049-2055.	4.6	60
106	Fabrication, characterization and applications of flexible vertical InGaN micro-light emitting diode arrays. Optics Express, 2016, 24, 699.	3.4	52
107	RGB and white-emitting organic lasers on flexible glass. Optics Express, 2016, 24, 2273.	3.4	28
108	Aging characteristics of blue InGaN micro-light emitting diodes at an extremely high current density of 3.5 kA cm ² . Semiconductor Science and Technology, 2016, 31, 045005.	2.0	32

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109	Organic Semiconductor Laser Biosensor: Design and Performance Discussion. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 6-14.	2.9	16
110	Spatially Superposed Pulse Amplitude Modulation Using a Chip-Scale CMOS-Integrated GaN LED Array. , 2016, , .		0
111	A diamond-based, hybrid optrode for multisite optogenetics. , 2016, , .		1
112	Concept of a GaN-LED-based positioning system using structured illumination. , 2015, , .		3
113	Hole transport assisted by the piezoelectric field in In _{0.4} Ga _{0.6} N/GaN quantum wells under electrical injection. Journal of Applied Physics, 2015, 118, .	2.5	8
114	Optogenetic activation of neocortical neurons in vivo with a sapphire-based micro-scale LED probe. Frontiers in Neural Circuits, 2015, 9, 25.	2.8	71
115	High-Speed Integrated Visible Light Communication System: Device Constraints and Design Considerations. IEEE Journal on Selected Areas in Communications, 2015, 33, 1750-1757.	14.0	106
116	¼LED-Based Single-Wavelength Bi-directional POF Link With 10 Gb/s Aggregate Data Rate. Journal of Lightwave Technology, 2015, 33, 3571-3576.	4.6	34
117	Active-Matrix GaN Micro Light-Emitting Diode Display With Unprecedented Brightness. IEEE Transactions on Electron Devices, 2015, 62, 1918-1925.	3.0	118
118	Hybrid GaN LED with capillary-bonded InGaN MQW color-converting membrane for visible light communications. Semiconductor Science and Technology, 2015, 30, 035012.	2.0	28
119	Integrated multiple-input multiple-output visible light communications systems: recent progress and results. Proceedings of SPIE, 2015, , .	0.8	4
120	Heterogeneous integration of gallium nitride light-emitting diodes on diamond and silica by transfer printing. Optics Express, 2015, 23, 9329.	3.4	57
121	Monolithic diamond Raman laser. Optics Letters, 2015, 40, 930.	3.3	43
122	Gb/s single-LED OFDM-based VLC using violet and UV Gallium nitride LEDs. , 2015, , .		6
123	Multi-Gigabit integrated MIMO visible light communication system: Progress and updates. , 2015, , .		3
124	Demonstration of 2.3 Gb/s RGB white-light VLC using polymer based colour-converters and GaN micro-LEDs. , 2015, , .		17
125	Ultralow-threshold up-converted lasing in oligofluorenes with tailored strong nonlinear absorption. Journal of Materials Chemistry C, 2015, 3, 12018-12025.	5.5	20
126	Single-chip discrete multitone generation. , 2015, , .		6

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127	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs. , 2015, , .		13
128	Optical spatial modulation OFDM using micro LEDs. , 2014, , .		7
129	Imaging-MIMO visible light communication system using μLEDs and integrated receiver. , 2014, , .		14
130	Optoelectronic tweezers system for single cell manipulation and fluorescence imaging of live immune cells. Optics Express, 2014, 22, 1372.	3.4	41
131	Diode-pumped, mechanically-flexible polymer DFB laser encapsulated by glass membranes. Optics Express, 2014, 22, 24160.	3.4	17
132	Temperature-dependent efficiency droop of blue InGaN micro-light emitting diodes. Applied Physics Letters, 2014, 105, .	3.3	50
133	Wavelength-tunable colloidal quantum dot laser on ultra-thin flexible glass. Applied Physics Letters, 2014, 104, .	3.3	31
134	Size-dependent capacitance study on InGaN-based micro-light-emitting diodes. Journal of Applied Physics, 2014, 116, .	2.5	46
135	Direct LED writing of submicron resist patterns: Towards the fabrication of individually-addressable InGaN submicron stripe-shaped LED arrays. Nano Research, 2014, 7, 1849-1860.	10.4	6
136	Hybrid organic semiconductor lasers for bio-molecular sensing. Faraday Discussions, 2014, 174, 369-381.	3.2	4
137	An oligofluorene truxene based distributed feedback laser for biosensing applications. Biosensors and Bioelectronics, 2014, 54, 679-686.	10.1	24
138	Characteristics and applications of micro-pixelated GaN-based light emitting diodes on Si substrates. Journal of Applied Physics, 2014, 115, .	2.5	92
139	Nanosecond colloidal quantum dot lasers for sensing. Optics Express, 2014, 22, 7308.	3.4	29
140	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $\mu\text{m LED}$. IEEE Photonics Technology Letters, 2014, 26, 637-640.	2.5	722
141	Micro-structured light emission from planar InGaN light-emitting diodes. Semiconductor Science and Technology, 2014, 29, 015005.	2.0	7
142	Planar micro- and nano-patterning of GaN light-emitting diodes: Guidelines and limitations. Journal of Applied Physics, 2014, 115, 084503.	2.5	4
143	Visible Light Communication Using a Blue GaN $\mu\text{m LED}$ and Fluorescent Polymer Color Converter. IEEE Photonics Technology Letters, 2014, 26, 2035-2038.	2.5	109
144	An organic semiconductor laser based on star-shaped truxene-core oligomers for refractive index sensing. Sensors and Actuators B: Chemical, 2013, 185, 132-139.	7.8	33

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145	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.	4.6	163
146	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. <i>Laser and Photonics Reviews</i> , 2013, 7, 1065-1078.	8.7	59
147	Multiwatt, Continuous-Wave, Tunable Diamond Raman Laser With Intracavity Frequency-Doubling to the Visible Region. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 1400108-1400108.	2.9	51
148	Modulation bandwidth studies of recombination processes in blue and green InGaN quantum well micro-light-emitting diodes. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	62
149	Thermal and optical characterization of micro-LED probes for in vivo optogenetic neural stimulation. <i>Optics Letters</i> , 2013, 38, 992.	3.3	134
150	Highly-photostable and mechanically flexible all-organic semiconductor lasers. <i>Optical Materials Express</i> , 2013, 3, 584.	3.0	20
151	Power-scaling properties of apertured microchip vertical external-cavity surface-emitting lasers. <i>Electronics Letters</i> , 2013, 49, 146-148.	1.0	0
152	On-chip optical stimulation and electrical recording from cells. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	2.6	15
153	Characteristics and applications of InGaN micro-light emitting diodes on Si substrates. , 2013, , .		0
154	CMOS-Controlled Color-Tunable Smart Display. <i>IEEE Photonics Journal</i> , 2012, 4, 1639-1646.	2.0	44
155	Organic polymer composite random laser operating underwater. <i>Optics Letters</i> , 2012, 37, 5160.	3.3	4
156	Colloidal quantum dot nanocomposites for visible wavelength conversion of modulated optical signals. <i>Optical Materials Express</i> , 2012, 2, 250.	3.0	42
157	Hybrid organic/GaN photonic crystal light-emitting diode. <i>Applied Physics Letters</i> , 2012, 101, 141122.	3.3	6
158	Directly color-tunable smart display based on a CMOS-controlled micro-LED array. , 2012, , .		9
159	High-bandwidth parallel data transmission using GaN/CMOS micro-LED arrays. , 2012, , .		2
160	High speed GaN micro-light-emitting diode arrays for data communications. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
161	Stripe Excitation of High Gain Media With Disorder. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 1184-1192.	1.9	1
162	Sub-Micron Lithography Using InGaN Micro-LEDs: Mask-Free Fabrication of LED Arrays. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 2221-2224.	2.5	32

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163	Corrections to "Characterization of Single-Crystal Synthetic Diamond for Multi-Watt Continuous-Wave Raman Lasers" [Mar 12 328-337]. IEEE Journal of Quantum Electronics, 2012, 48, 1494-1494.	1.9	1
164	Size-dependent efficiency and efficiency droop of blue InGaN micro-light emitting diodes. Applied Physics Letters, 2012, 101, .	3.3	222
165	Optical properties of single crystal diamond microfilms fabricated by ion implantation and lift-off processing. Diamond and Related Materials, 2012, 21, 16-23.	3.9	11
166	Generation of primary hepatocyte microarrays by piezoelectric printing. Colloids and Surfaces B: Biointerfaces, 2012, 89, 126-132.	5.0	15
167	Modification of emission wavelength in organic random lasers based on photonic glass. Organic Electronics, 2012, 13, 1129-1135.	2.6	11
168	Visible-Light Communications Using a CMOS-Controlled Micro-Light-Emitting-Diode Array. Journal of Lightwave Technology, 2012, 30, 61-67.	4.6	279
169	Mechanically Flexible Organic Semiconductor Laser Array. IEEE Photonics Journal, 2012, 4, 684-690.	2.0	9
170	Characterization of Single-Crystal Synthetic Diamond for Multi-Watt Continuous-Wave Raman Lasers. IEEE Journal of Quantum Electronics, 2012, 48, 328-337.	1.9	57
171	Tunable diamond Raman laser intracavity-pumped by an InGaAs semiconductor disk laser. , 2012, , .		0
172	Large cross-section edge-coupled diamond waveguides. Diamond and Related Materials, 2011, 20, 564-567.	3.9	18
173	Dip-pen nanolithography of nanostructured oligofluorene truxenes in a photo-curable host matrix. Journal of Materials Chemistry, 2011, 21, 14209.	6.7	9
174	Emission characteristics of photonic crystal light-emitting diodes. Applied Optics, 2011, 50, 3233.	2.1	8
175	Miniaturized optoelectronic tweezers controlled by GaN micro-pixel light emitting diode arrays. Optics Express, 2011, 19, 2720.	3.4	39
176	Colloidal quantum dot random laser. Optics Express, 2011, 19, 2996.	3.4	114
177	16 W continuous-wave Raman laser using low-loss synthetic diamond. Optics Express, 2011, 19, 6938.	3.4	31
178	Broadly tunable femtosecond mode-locking in a Tm:KYW laser near 2 μ m. Optics Express, 2011, 19, 9995.	3.4	65
179	Tunable continuous-wave diamond Raman laser. Optics Express, 2011, 19, 24165.	3.4	36
180	Continuous-wave Raman laser pumped within a semiconductor disk laser cavity. Optics Letters, 2011, 36, 1083.	3.3	22

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181	Ultra-portable explosives sensor based on a CMOS fluorescence lifetime analysis micro-system. AIP Advances, 2011, 1, 032115.	1.3	16
182	Diamond Raman Waveguide Lasers: Completely Analytical Design Optimization Incorporating Scattering Losses. IEEE Journal of Quantum Electronics, 2011, 47, 1069-1077.	1.9	19
183	InGaN micro-pixellated light-emitting diodes with nano-textured surfaces and modified emission profiles. Applied Physics A: Materials Science and Processing, 2011, 103, 389-393.	2.3	9
184	Inkjet-printed silver nanoparticle electrodes on GaN-based micro-structured light-emitting diodes. Applied Physics A: Materials Science and Processing, 2011, 104, 1003-1009.	2.3	6
185	Laser action in a surface-structured free-standing membrane based on a π -conjugated polymer-composite. Organic Electronics, 2011, 12, 62-69.	2.6	40
186	GaN directional couplers for integrated quantum photonics. Applied Physics Letters, 2011, 99, .	3.3	53
187	Flexible distributed-feedback colloidal quantum dot laser. Applied Physics Letters, 2011, 99, .	3.3	25
188	Flexible vertical structure GaN-based light emitting diodes on an AuSn substrate. , 2011, , .		3
189	Multi-watt continuous-wave diamond Raman laser at 1217 nm. , 2011, , .		4
190	Compact large-cross-section GaN directional couplers. , 2011, , .		1
191	Flexible distributed feedback colloidal quantum dot laser patterned by a submicron grating structure. , 2011, , .		0
192	Hybrid GaN/organic polymer photonic crystal LED. , 2011, , .		0
193	1.6W Continuous-wave Diamond Raman Laser. , 2011, , .		0
194	Photonic quasi-crystal light emitting diodes: comparisons of device performance with pattern pitch. , 2010, , .		2
195	Nanofabrication of gallium nitride photonic crystal light-emitting diodes. Microelectronic Engineering, 2010, 87, 2200-2207.	2.4	20
196	Amplified spontaneous emission in free-standing membranes incorporating star-shaped monodisperse π -conjugated truxene oligomers. Journal of Optics (United Kingdom), 2010, 12, 035503.	2.2	17
197	Passive Mode-Locking of a Ti: Sapphire Laser by InGaP Quantum-Dot Saturable Absorber. IEEE Photonics Technology Letters, 2010, 22, 209-211.	2.5	19
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