

Yu-Chieh Chi

List of Publications by Year in descending order

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papers

2,340
citations

236925

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223800

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88
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docs citations

88
times ranked

2378
citing authors

#	ARTICLE	IF	CITATIONS
1	Tricolor R/G/B Laser Diode Based Eye-Safe White Lighting Communication Beyond 8â€‰Gbit/s. Scientific Reports, 2017, 7, 11.	3.3	237
2	450-nm GaN laser diode enables high-speed visible light communication with 9-Gbps QAM-OFDM. Optics Express, 2015, 23, 13051.	3.4	236
3	Using n- and p-Type Bi ₂ Te ₃ Topological Insulator Nanoparticles To Enable Controlled Femtosecond Mode-Locking of Fiber Lasers. ACS Photonics, 2015, 2, 481-490.	6.6	197
4	Blue Laser Diode Enables Underwater Communication at 12.4â€‰Gbps. Scientific Reports, 2017, 7, 40480.	3.3	177
5	Phosphorous Diffuser Diverged Blue Laser Diode for Indoor Lighting and Communication. Scientific Reports, 2015, 5, 18690.	3.3	118
6	4-Gbit/s visible light communication link based on 16-QAM OFDM transmission over remote phosphor-film converted white light by using blue laser diode. Optics Express, 2015, 23, 33656.	3.4	87
7	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. ACS Photonics, 2015, 2, 1141-1154.	6.6	72
8	Filtered Multicarrier OFDM Encoding on Blue Laser Diode for 14.8-Gbps Seawater Transmission. Journal of Lightwave Technology, 2018, 36, 1739-1745.	4.6	64
9	Si-rich SiNx based Kerr switch enables optical data conversion up to 12â€‰Gbit/s. Scientific Reports, 2015, 5, 9611.	3.3	63
10	Optical 16-QAM-52-OFDM transmission at 4 Gbit/s by directly modulating a coherently injection-locked colorless laser diode. Optics Express, 2012, 20, 20071.	3.4	59
11	60-GHz Millimeter-wave Over Fiber with Directly Modulated Dual-mode Laser Diode. Scientific Reports, 2016, 6, 27919.	3.3	59
12	360Â° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. Npj Flexible Electronics, 2018, 2, .	10.7	40
13	200-GHz and 50-GHz AWG channelized linewidth dependent transmission of weak-resonant-cavity FPLD injection-locked by spectrally sliced ASE. Optics Express, 2009, 17, 17739.	3.4	37
14	Violet Laser Diode Enables Lighting Communication. Scientific Reports, 2017, 7, 10469.	3.3	36
15	Power fading mitigation of 40-Gbit/s 256-QAM OFDM carried by colorless laser diode under injection-locking. Optics Express, 2015, 23, 29065.	3.4	33
16	Single-mode VCSEL for pre-emphasis PAM-4 transmission up to 64â€‰Gbit/s over 100â€‰m in OM4 MME. Photonics Research, 2018, 6, 666.	7.0	32
17	Clock-Free RZ-BPSK Data Generation Using Self-Starting Optoelectronic Oscillator. Journal of Lightwave Technology, 2011, 29, 1702-1707.	4.6	31
18	Blue Laser Diode Based Free-space Optical Data Transmission elevated to 18â€‰Gbps over 16â€‰m. Scientific Reports, 2017, 7, 10478.	3.3	31

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19	Beyond-Bandwidth Electrical Pulse Modulation of a TO-Can Packaged VCSEL for 10 Gbit/s Injection-Locked NRZ-to-RZ Transmission. <i>Journal of Lightwave Technology</i> , 2011, 29, 830-841.	4.6	28
20	Millimeter-Wave Carrier Embedded Dual-Color Laser Diode for 5G MMW oF Link. <i>Journal of Lightwave Technology</i> , 2017, 35, 2409-2420.	4.6	28
21	Remote beating of parallel or orthogonally polarized dual-wavelength optical carriers for 5G millimeter-wave radio-over-fiber link. <i>Optics Express</i> , 2016, 24, 17654.	3.4	27
22	Multi-Mode VCSEL Chip with High-Indium-Density InGaAs/AlGaAs Quantum-Well Pairs for QAM-OFDM in Multi-Mode Fiber. <i>IEEE Journal of Quantum Electronics</i> , 2017, 53, 1-8.	1.9	27
23	White-Lighting Communication With a Lu ₃ Al ₅ O ₁₂ :Ce ³⁺ /CaAlSiN ₃ :Eu ²⁺ Glass Covered 450-nm InGaN Laser Diode. <i>Journal of Lightwave Technology</i> , 2018, 36, 1634-1643.	4.6	27
24	Growing GaN LEDs on amorphous SiC buffer with variable C/Si compositions. <i>Scientific Reports</i> , 2016, 6, 19757.	3.3	26
25	Suppressing the relaxation oscillation noise of injection-locked WRC-FPLD for directly modulated OFDM transmission. <i>Optics Express</i> , 2014, 22, 15724.	3.4	25
26	Remote heterodyne millimeter-wave over fiber based OFDM-PON with master-to-slave injected dual-mode colorless FPLD pair. <i>Optics Express</i> , 2015, 23, 22691.	3.4	25
27	A Self-Started Laser Diode Pulsation Based Synthesizer-Free Optical Return-to-Zero On-Off-Keying Data Generator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 2292-2298.	4.6	21
28	LuAG:Ce/CASN:Eu phosphor enhanced high-CRI R/G/B LD lighting fidelity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9556-9563.	5.5	20
29	MoS ₂ nano-flake doped polyvinyl alcohol enabling polarized soliton mode-locking of a fiber laser. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9454-9459.	5.5	18
30	Modal Linewidth Dependent Transmission Performance of 850-nm VCSELs With Encoding PAM-4 Over 100-m MMF. <i>IEEE Journal of Quantum Electronics</i> , 2017, 53, 1-8.	1.9	18
31	Two-color laser diode for 54-Gb/s fiber-wired and 16-Gb/s MMW wireless OFDM transmissions. <i>Photonics Research</i> , 2017, 5, 271.	7.0	18
32	75-km Long Reach Dispersion Managed OFDM-PON at 60 Gbit/s With Quasi-Color-Free LD. <i>Journal of Lightwave Technology</i> , 2018, 36, 2394-2408.	4.6	18
33	Destructively Interfered Beating Dual-Mode VCSEL for Carrierless MMW Fiber-Wireless Access Link With Suppressed RF Fading. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-9.	2.9	17
34	Four-Wave-Mixing Suppression of Master-to-Slave Injection-Locked Two-Wavelength FPLD Pair for MMW-PON. <i>Journal of Lightwave Technology</i> , 2016, 34, 4810-4818.	4.6	16
35	SiGeC Waveguide for All-Optical Data Switching. <i>ACS Photonics</i> , 2018, 5, 2251-2260.	6.6	15
36	Using a L-Band Weak-Resonant-Cavity FPLD for Subcarrier Amplitude Pre-Levelled 16-QAM-OFDM Transmission at 20 Gbit/s. <i>Journal of Lightwave Technology</i> , 2013, 31, 1079-1087.	4.6	14

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37	Two-Photon Absorption-Free Ultrafast Optical Switching in Carbon-Rich SiC Microring. <i>Advanced Materials Technologies</i> , 2017, 2, 1700095.	5.8	14
38	Quasi-Color-Free LD-Based Long-Reach 28-GHz MMWoF With 512-QAM OFDM. <i>Journal of Lightwave Technology</i> , 2018, 36, 4282-4297.	4.6	14
39	Realizing multi-functional all-optical data processing on nanoscale SiC waveguides. <i>Scientific Reports</i> , 2018, 8, 14859.	3.3	14
40	Can silicon carbide serve as a saturable absorber for passive mode-locked fiber lasers?. <i>Scientific Reports</i> , 2015, 5, 16463.	3.3	13
41	Efficient Heat Dissipation of Uncooled 400-Gbps (16Å–25-Gbps) Optical Transceiver Employing Multimode VCSEL and PD Arrays. <i>Scientific Reports</i> , 2017, 7, 46608.	3.3	13
42	Saturated evanescent-wave absorption of few-layer graphene-covered side-polished single-mode fiber for all-optical switching. <i>Nanophotonics</i> , 2018, 7, 207-215.	6.0	13
43	28-GHz Wireless Carrier Heterodyned From Orthogonally Polarized Tri-Color Laser Diode for Fading-Free Long-Reach MMWoF. <i>Journal of Lightwave Technology</i> , 2019, 37, 3388-3400.	4.6	13
44	Dual-mode laser diode carrier with orthogonal polarization and single-mode modulation for remote-node heterodyne MMW-RoF. <i>Optics Letters</i> , 2016, 41, 4676.	3.3	12
45	Multi-Color Laser Diode Heterodyned 28-GHz Millimeter-Wave Carrier Encoded With DMT for 5G Wireless Mobile Networks. <i>IEEE Access</i> , 2019, 7, 122697-122706.	4.2	12
46	Coherently wavelength injection-locking a 600- μ m long cavity colorless laser diode for 16-QAM OFDM at 12 Gbit/s over 25-km SMF. <i>Optics Express</i> , 2013, 21, 16722.	3.4	11
47	All Colorless FPLD-Based Bidirectional Full-Duplex DWDM-PON. <i>Journal of Lightwave Technology</i> , 2015, 33, 832-842.	4.6	11
48	Coherent Injection-Locking of Long-Cavity Colorless Laser Diodes With Low Front-Facet Reflectance for DWDM-PON Transmission. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 1501011-1501011.	2.9	10
49	Using Self-Feedback Controlled Colorless Fabry-Perot Laser Diode for Remote Control Free Single-Mode DWDM-PON Transmission. <i>IEEE Journal of Quantum Electronics</i> , 2014, 50, 658-668.	1.9	10
50	Multi-order bunched soliton pulse generation by nonlinear polarization rotation mode-locking erbium-doped fiber lasers with weak or strong polarization-dependent loss. <i>Laser Physics</i> , 2014, 24, 105113.	1.2	10
51	CWDM DFBLD Transmitter Module for 10-km Interdata Center With Single-Channel 50-Gbit/s PAM-4 and 62-Gbit/s QAM-OFDM. <i>Journal of Lightwave Technology</i> , 2018, 36, 703-711.	4.6	10
52	Long-Term Thermal Stability of Single-Mode VCSEL Under 96-Gbit/s OFDM Transmission. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-9.	2.9	10
53	Specific Jacket SMA-Connected TO-Can Package FPLD Transmitter With Direct Modulation Bandwidth Beyond 6 GHz for 256-QAM Single or Multisubcarrier OOFDM up to 15 Gb/s. <i>Journal of Lightwave Technology</i> , 2013, 31, 28-35.	4.6	9
54	A Novel Colorless FPLD Packaged With TO-Can for 30-Gbit/s Pre-amplified 64-QAM-OFDM Transmission. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 144-156.	2.9	9

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55	Catalytically solid-phase self-organization of nanoporous SnS with optical depolarizability. <i>Nanoscale</i> , 2016, 8, 4579-4587.	5.6	8
56	Unintentional Polarization Dependent Pulwidth of Graphene Mode-Locked Er-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 50-59.	2.9	8
57	Enhanced Nonlinear Refractive Index of C-Rich SiC Waveguides Via Annealing for PRZ-OOK Data Transmission. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-10.	2.9	8
58	Incoherent Laser Heterodyned Long-Reach 60-GHz MMWoF Link With Volterra Filtered 16-QAM OFDM Beyond 13 Gbps. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	2.9	8
59	A Self-Started DFBLD/EAM Pulsed Carrier for Down-Stream RZ-BPSK and Up-Stream Reused RZ-OOK Transmission at 10 Gbit/s. <i>Journal of Lightwave Technology</i> , 2013, 31, 187-194.	4.6	7
60	Chirp Manipulation of Harmonically Mode-Locked Weak-Resonant-Cavity Colorless Laser Diode With External Fiber Ring. <i>IEEE Journal of Quantum Electronics</i> , 2015, 51, 1-11.	1.9	7
61	All-Optical Cross-Absorption-Modulation Based Gb/s Switching With Silicon Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 57-69.	2.9	7
62	Adjacent Channel Beating With Recombined Dual-Mode Colorless FPLD for MMW-PON. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-9.	2.9	7
63	Low-Temperature PECVD Growth of Germanium for Mode-Locking of Er-Doped Fiber Laser. <i>Nanomaterials</i> , 2022, 12, 1197.	4.1	7
64	Polarization-manipulated all-optical cross-wavelength data inversion in a C-rich SiC _x micro-ring. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10158-10166.	5.5	6
65	Optimizing the Self-Amplitude Modulation of Different 2-D Saturable Absorbers for Ultrafast Mode-Locked Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-10.	2.9	6
66	A Q^2 -Factor Enhanced Optoelectronic Oscillator for 40-Gbit/s Pulsed RZ-OOK Transmission. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 3216-3223.	4.6	5
67	Reusing Downstream Carrier in Colorless Laser Diode for Full-Duplex 64-QAM OFDM. <i>Journal of Lightwave Technology</i> , 2015, 33, 1780-1787.	4.6	5
68	Constructed MC-CDMA LR-PON With Colorless Laser Diode and Multicode Interference Cancellation DSP. <i>Journal of Lightwave Technology</i> , 2017, 35, 2646-2653.	4.6	5
69	MC-CDMA Enhanced LR-PON Using Widely Wavelength Lockable FPLD With Low Facet Reflectance. <i>Journal of Optical Communications and Networking</i> , 2017, 9, 747.	4.8	5
70	100-Km Long-Reach Carrierless 5G MMWoF Link With Destructive-Interference-Beating or Single-Sideband-Filtering OFDM. <i>Journal of Lightwave Technology</i> , 2021, 39, 7831-7841.	4.6	5
71	WDM-PON transmission using WRC-FPLDs with AR coating reflectance of 0.5% and 1.2%. , 2012, , .		4
72	An Injection-Locked Weak-Resonant-Cavity Laser Diode for Beyond-Bandwidth Encoded 10-Gb/s OOK Transmission. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	2.0	4

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73	Stoichiometry detuned silicon carbide as an orange and white light band solid-state phosphor. RSC Advances, 2016, 6, 7121-7128.	3.6	4
74	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-10.	2.9	4
75	Chirp-Compensated Multichannel Hybrid DWDM/TDM Pulsed Carrier From Optically Injection-Mode-Locked Weak-Resonant-Cavity Laser Diode Fiber Ring. IEEE Journal of Quantum Electronics, 2011, 47, 182-189.	1.9	3
76	Self Optical Pulsation Based RZ-BPSK and Reused RZ-OOK Bi-Directional OC-768 Transmission. Journal of Lightwave Technology, 2014, 32, 3728-3734.	4.6	3
77	Quad-Mode VCSEL Optical Carrier for Long-Reach Ka-Band Millimeter-Wave Over Fiber Link. IEEE Journal on Selected Areas in Communications, 2021, 39, 2838-2848.	14.0	3
78	Coherently injection-locked weak-resonant-cavity laser diode for optical 16-QAM-OFDM transmission at 4 Gb/s. , 2012, , .		2
79	Harmonic Mode-Locking of 10-GHz Directly Modulated Weak-Resonant-Cavity Fabry-Perot Laser Diode in Self-Feedback Fiber Ring. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1100510-1100510.	2.9	1
80	Effect of Injection Coherence on Noise and Bandwidth of Long-Cavity Colorless Laser Diode for Digital Modulation and Transmission. IEEE Journal of Quantum Electronics, 2015, 51, 1-14.	1.9	1
81	Violet diode laser based 11.2-Gbit/s point-to-point and 4.4-Gbit/s white lighting communications. , 2017, , .		1
82	Nanoscale Ge-Rich Si _x C _{1-x} Bus/Ring Waveguide Based Cross-Wavelength Data Converter. Annalen Der Physik, 2019, 531, 1800414.	2.4	1
83	Bit-error-rate and chirp analyses of a gain-switching VCSEL based all-optical NRZ-to-RZ converter. , 2008, , .		0
84	Bias and temperature effect of an injection locked reflective SOA upstream transmitter in WDM-PON with 200GHz channel bandwidth. , 2008, , .		0
85	10 Gbit/s on-off-keying RZ data generation using a self-feedback pulsating FPLD. , 2009, , .		0
86	Master-to-slave injection-locked WRC-FPLD for multi-QAM-OFDM transmission. , 2014, , .		0
87	Injection-locked weak-resonant-cavity laser diode with transient response switching for wavelength reused full-duplex transmission. , 2015, , .		0
88	Investigation of mirror-resistance reduction in the signal transmission integrity of VCSELs. , 2017, , .		0