Yu-Chieh Chi

List of Publications by Year
in descending order

88 papers	2,340 citations	236925 25 h-index	223800 46 g-index
88 all docs	88 docs citations	88 times ranked	2378 citing authors

#	Article	IF	Citations
1	Low-Temperature PECVD Growth of Germanium for Mode-Locking of Er-Doped Fiber Laser. Nanomaterials, 2022, 12, 1197.	4.1	7
2	100-Km Long-Reach Carrierless 5G MMWoF Link With Destructive-Interference-Beating or Single-Sideband-Filtering OFDM. Journal of Lightwave Technology, 2021, 39, 7831-7841.	4.6	5
3	Incoherent Laser Heterodyned Long-Reach 60-GHz MMWoF Link With Volterra Filtered 16-QAM OFDM Beyond 13 Gbps. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	2.9	8
4	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
5	LuAG:Ce/CASN:Eu phosphor enhanced high-CRI R/G/B LD lighting fidelity. Journal of Materials Chemistry C, 2019, 7, 9556-9563.	5.5	20
6	28-GHz Wireless Carrier Heterodyned From Orthogonally Polarized Tri-Color Laser Diode for Fading-Free Long-Reach MMWoF. Journal of Lightwave Technology, 2019, 37, 3388-3400.	4.6	13
7	Multi-Color Laser Diode Heterodyned 28-GHz Millimeter-Wave Carrier Encoded With DMT for 5G Wireless Mobile Networks. IEEE Access, 2019, 7, 122697-122706.	4.2	12
8	Optimizing the Self-Amplitude Modulation of Different 2-D Saturable Absorbers for Ultrafast Mode-Locked Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-10.	2.9	6
9	Long-Term Thermal Stability of Single-Mode VCSEL Under 96-Gbit/s OFDM Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-9.	2.9	10
10	Nanoscale Câ€Rich Si_xC_{1â^'}_x Bus/Ring Waveguide Based Crossâ€Wavelength Data Converter. Annalen Der Physik, 2019, 531, 1800414.	2.4	1
11	White-Lighting Communication With a Lu3Al5O12:Ce3+/CaAlSiN 3:Eu2+ Glass Covered 450-nm InGaN Laser Diode. Journal of Lightwave Technology, 2018, 36, 1634-1643.	4.6	27
12	Quasi-Color-Free LD-Based Long-Reach 28-GHz MMWoF With 512-QAM OFDM. Journal of Lightwave Technology, 2018, 36, 4282-4297.	4.6	14
13	SiGeC Waveguide for All-Optical Data Switching. ACS Photonics, 2018, 5, 2251-2260.	6.6	15
14	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
15	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
16	Saturated evanescent-wave absorption of few-layer graphene-covered side-polished single-mode fiber for all-optical switching. Nanophotonics, 2018, 7, 207-215.	6.0	13
17	Enhanced Nonlinear Refractive Index of C-Rich SiC Waveguides Via Annealing for PRZ-OOK Data Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-10.	2.9	8
18	Realizing multi-functional all-optical data processing on nanoscale SiC waveguides. Scientific Reports, 2018, 8, 14859.	3.3	14

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19	75-km Long Reach Dispersion Managed OFDM-PON at 60 Gbit/s With Quasi-Color-Free LD. Journal of Lightwave Technology, 2018, 36, 2394-2408.	4.6	18
20	Single-mode VCSEL for pre-emphasis PAM-4 transmission up to 64â€‰â€‰Gbit/s over 100â€“300â€‰â€‰m in OM4 MMF. Photonics Research, 2018, 6, 666.	7.0	32
21	CWDM DFBLD Transmitter Module for 10-km Interdata Center With Single-Channel 50-Gbit/s PAM-4 and 62-Gbit/s QAM-OFDM. Journal of Lightwave Technology, 2018, 36, 703-711.	4.6	10
22	360Â° omnidirectional, printable and transparent photodetectors for flexible optoelectronics. Npj Flexible Electronics, 2018, 2, .	10.7	40
23	Unintentional Polarization Dependent Pulsewidth of Graphene Mode-Locked Er-Doped Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 50-59.	2.9	8
24	Blue Laser Diode Enables Underwater Communication at 12.4â€‰Gbps. Scientific Reports, 2017, 7, 40480.	3.3	177
25	Constructed MC-CDMA LR-PON With Colorless Laser Diode and Multicode Interference Cancellation DSP. Journal of Lightwave Technology, 2017, 35, 2646-2653.	4.6	5
26	Efficient Heat Dissipation of Uncooled 400-Gbps (16Ã—25-Gbps) Optical Transceiver Employing Multimode VCSEL and PD Arrays. Scientific Reports, 2017, 7, 46608.	3.3	13
27	Multi-Mode VCSEL Chip with High-Indium-Density InGaAs/AlGaAs Quantum-Well Pairs for QAM-OFDM in Multi-Mode Fiber. IEEE Journal of Quantum Electronics, 2017, 53, 1-8.	1.9	27
28	Tricolor R/G/B Laser Diode Based Eye-Safe White Lighting Communication Beyond 8â€‰Gbit/s. Scientific Reports, 2017, 7, 11.	3.3	237
29	Destructively Interfered Beating Dual-Mode VCSEL for Carrierless MMW Fiber-Wireless Access Link With Suppressed RF Fading. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-9.	2.9	17
30	Adjacent Channel Beating With Recombined Dual-Mode Colorless FPLD for MMW-PON. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-9.	2.9	7
31	Millimeter-Wave Carrier Embedded Dual-Color Laser Diode for 5G MMW oF Link. Journal of Lightwave Technology, 2017, 35, 2409-2420.	4.6	28
32	Polarization-manipulated all-optical cross-wavelength data inversion in a C-rich SiC_x micro-ring. Journal of Materials Chemistry C, 2017, 5, 10158-10166.	5.5	6
33	Blue Laser Diode Based Free-space Optical Data Transmission elevated to 18â€‰Gbps over 16â€‰m. Scientific Reports, 2017, 7, 10478.	3.3	31
34	Violet Laser Diode Enables Lighting Communication. Scientific Reports, 2017, 7, 10469.	3.3	36
35	Twoâ€Photon Absorptionâ€Free Ultrafast Optical Switching in Carbonâ€Rich Si_xC_{1â^'}_x Microring. Advanced Materials Technologies, 2017, 2, 1700095.	5.8	14
36	Violet diode laser based 11.2-Gbit/s point-to-point and 4.4-Gbit/s white lighting communications. , 2017, , .		1

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37	Investigation of mirror-resistance reduction in the signal transmission integraty of VCSELs. , 2017, , .		0
38	Modal Linewidth Dependent Transmission Performance of 850-nm VCSELs With Encoding PAM-4 Over 100-m MMF. IEEE Journal of Quantum Electronics, 2017, 53, 1-8.	1.9	18
39	MC-CDMA Enhanced LR-PON Using Widely Wavelength Lockable FPLD With Low Facet Reflectance. Journal of Optical Communications and Networking, 2017, 9, 747.	4.8	5
40	Two-color laser diode for 54-Gb/s fiber-wired and 16-Gb/s MMW wireless OFDM transmissions. Photonics Research, 2017, 5, 271.	7.0	18
41	Dual-mode laser diode carrier with orthogonal polarization and single-mode modulation for remote-node heterodyne MMW-RoF. Optics Letters, 2016, 41, 4676.	3.3	12
42	Remote beating of parallel or orthogonally polarized dual-wavelength optical carriers for 5G millimeter-wave radio-over-fiber link. Optics Express, 2016, 24, 17654.	3.4	27
43	Growing GaN LEDs on amorphous SiC buffer with variable C/Si compositions. Scientific Reports, 2016, 6, 19757.	3.3	26
44	60-GHz Millimeter-wave Over Fiber with Directly Modulated Dual-mode Laser Diode. Scientific Reports, 2016, 6, 27919.	3.3	59
45	Four-Wave-Mixing Suppression of Master-to-Slave Injection-Locked Two-Wavelength FPLD Pair for MMW-PON. Journal of Lightwave Technology, 2016, 34, 4810-4818.	4.6	16
46	MoS₂ nano-flake doped polyvinyl alcohol enabling polarized soliton mode-locking of a fiber laser. Journal of Materials Chemistry C, 2016, 4, 9454-9459.	5.5	18
47	All-Optical Cross-Absorption-Modulation Based Gb/s Switching With Silicon Quantum Dots. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 57-69.	2.9	7
48	Stoichiometry detuned silicon carbide as an orange and white light band solid-state phosphor. RSC Advances, 2016, 6, 7121-7128.	3.6	4
49	Catalytically solid-phase self-organization of nanoporous SnS with optical depolarizability. Nanoscale, 2016, 8, 4579-4587.	5.6	8
50	Si-rich SiNx based Kerr switch enables optical data conversion up to 12â€…Gbit/s. Scientific Reports, 2015, 5, 9611.	3.3	63
51	Phosphorous Diffuser Diverged Blue Laser Diode for Indoor Lighting and Communication. Scientific Reports, 2015, 5, 18690.	3.3	118
52	Can silicon carbide serve as a saturable absorber for passive mode-locked fiber lasers?. Scientific Reports, 2015, 5, 16463.	3.3	13
53	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
54	Using n- and p-Type Bi₂Te₃ Topological Insulator Nanoparticles To Enable Controlled Femtosecond Mode-Locking of Fiber Lasers. ACS Photonics, 2015, 2, 481-490.	6.6	197

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55	Injection-locked weak-resonant-cavity laser diode with transient response switching for wavelength reused full-duplex transmission. , 2015, , .		0
56	Reusing Downstream Carrier in Colorless Laser Diode for Full-Duplex 64-QAM OFDM. Journal of Lightwave Technology, 2015, 33, 1780-1787.	4.6	5
57	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
58	Chirp Manipulation of Harmonically Mode-Locked Weak-Resonant-Cavity Colorless Laser Diode With External Fiber Ring. IEEE Journal of Quantum Electronics, 2015, 51, 1-11.	1.9	7
59	A Novel Colorless FPLD Packaged With TO-Can for 30-Gbit/s Preamplified 64-QAM-OFDM Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 144-156.	2.9	9
60	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. ACS Photonics, 2015, 2, 1141-1154.	6.6	72
61	All Colorless FPLD-Based Bidirectional Full-Duplex DWDM-PON. Journal of Lightwave Technology, 2015, 33, 832-842.	4.6	11
62	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
63	450-nm GaN laser diode enables high-speed visible light communication with 9-Gbps QAM-OFDM. Optics Express, 2015, 23, 13051.	3.4	236
64	Remote heterodyne millimeter-wave over fiber based OFDM-PON with master-to-slave injected dual-mode colorless FPLD pair. Optics Express, 2015, 23, 22691.	3.4	25
65	An Injection-Locked Weak-Resonant-Cavity Laser Diode for Beyond-Bandwidth Encoded 10-Gb/s OOK Transmission. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	4
66	A <formula formulatype="inline"><tex Notation="TeX">Q</tex> </formula>-Factor Enhanced Optoelectronic Oscillator for 40-Gbit/s Pulsed RZ-OOK Transmission. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3216-3223.	4.6	5
67	Master-to-slave injection-locked WRC-FPLD for multi-QAM-OFDM transmission. , 2014, , .		0
68	Suppressing the relaxation oscillation noise of injection-locked WRC-FPLD for directly modulated OFDM transmission. Optics Express, 2014, 22, 15724.	3.4	25
69	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
70	Using Self-Feedback Controlled Colorless Fabry-Perot Laser Diode for Remote Control Free Single-Mode DWDM-PON Transmission. IEEE Journal of Quantum Electronics, 2014, 50, 658-668.	1.9	10
71	Multi-order bunched soliton pulse generation by nonlinear polarization rotation mode-locking erbium-doped fiber lasers with weak or strong polarization-dependent loss. Laser Physics, 2014, 24, 105113.	1.2	10
72	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. Journal of Lightwave Technology, 2013, 31, 28-35.	4.6	9

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73	Coherent Injection-Locking of Long-Cavity Colorless Laser Diodes With Low Front-Facet Reflectance for DWDM-PON Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1501011-1501011.	2.9	10
74	Harmonic Mode-Locking of 10-GHz Directly Modulated Weak-Resonant-Cavity Fabryâ€“Perot Laser Diode in Self-Feedback Fiber Ring. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1100510-1100510.	2.9	1
75	A Self-Started DFBLD/EAM Pulsed Carrier for Down-Stream RZ-BPSK and Up-Stream Reused RZ-OOK Transmission at 10 Gbit/s. Journal of Lightwave Technology, 2013, 31, 187-194.	4.6	7
76	Using a L-Band Weak-Resonant-Cavity FPLD for Subcarrier Amplitude Pre-Leveled 16-QAM-OFDM Transmission at 20 Gbit/s. Journal of Lightwave Technology, 2013, 31, 1079-1087.	4.6	14
77	Coherently wavelength injection-locking a 600-Î¼m long cavity colorless laser diode for 16-QAM OFDM at 12 Gbit/s over 25-km SMF. Optics Express, 2013, 21, 16722.	3.4	11
78	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
79	WDM-PON transmission using WRC-FPLDs with AR coating reflectance of 0.5% and 1.2%. , 2012, , .		4
80	Coherently injection-locked weak-resonant-cavity laser diode for optical 16-QAM-OFDM transmission at 4 Gb/s. , 2012, , .		2
81	Beyond-Bandwidth Electrical Pulse Modulation of a TO-Can Packaged VCSEL for 10 Gbit/s Injection-Locked NRZ-to-RZ Transmission. Journal of Lightwave Technology, 2011, 29, 830-841.	4.6	28
82	Clock-Free RZ-BPSK Data Generation Using Self-Starting Optoelectronic Oscillator. Journal of Lightwave Technology, 2011, 29, 1702-1707.	4.6	31
83	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
84	A Self-Started Laser Diode Pulsation Based Synthesizer-Free Optical Return-to-Zero Onâ€“Off-Keying Data Generator. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2292-2298.	4.6	21
85	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
86	10 Gbit/s on-off-keying RZ data generation using a self-feedback pulsating FPLD. , 2009, , .		0
87	Bit-error-rate and chirp analyses of a gain-switching VCSEL based all-optical NRZ-to-RZ converter. , 2008, , .		0
88	Bias and temperature effect of an injection locked reflective SOA upstream transmitter in WDM-PON with 200GHz channel bandwidth. , 2008, , .		0