

Cheng-Ting Tsai

List of Publications by Year in descending order

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60
papers

1,299
citations

430874

18
h-index

377865

34
g-index

60
all docs

60
docs citations

60
times ranked

1513
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	Blue Laser Diode Enables Underwater Communication at 12.4â€‰Gbps. Scientific Reports, 2017, 7, 40480.	3.3	177
3	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. ACS Photonics, 2015, 2, 1141-1154.	6.6	72
4	Si-rich SiNx based Kerr switch enables optical data conversion up to 12â€‰Gbit/s. Scientific Reports, 2015, 5, 9611.	3.3	63
5	60-GHz Millimeter-wave Over Fiber with Directly Modulated Dual-mode Laser Diode. Scientific Reports, 2016, 6, 27919.	3.3	59
6	Comparison of single-/few-/multi-mode 850 nm VCSELs for optical OFDM transmission. Optics Express, 2017, 25, 16347.	3.4	43
7	850/940-nm VCSEL for optical communication and 3D sensing. Opto-Electronic Advances, 2018, 1, 18000501-18000511.	13.3	42
8	Violet Laser Diode Enables Lighting Communication. Scientific Reports, 2017, 7, 10469.	3.3	36
9	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
10	Few-mode VCSEL chip for 100-Gb/s transmission over 100â€‰m multimode fiber. Photonics Research, 2017, 5, 507.	7.0	33
11	Single-mode VCSEL for pre-emphasis PAM-4 transmission up to 64â€‰Gbit/s over 100â€‰300â€‰m in OM4 MMF. Photonics Research, 2018, 6, 666.	7.0	32
12	Single-Mode VCSEL Transmission for Short Reach Communications. Journal of Lightwave Technology, 2021, 39, 868-880.	4.6	31
13	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
14	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
15	Long-reach 60-GHz MMWoF link with free-running laser diodes beating. Scientific Reports, 2018, 8, 13711.	3.3	20
16	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
17	CdSe/ZnS core-shell quantum dot assisted color conversion of violet laser diode for white lighting communication. Nanophotonics, 2019, 8, 2189-2201.	6.0	19
18	Comparison of High-Speed PAM4 and QAM-OFDM Data Transmission Using Single-Mode VCSEL in OM5 and OM4 MMF Links. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	2.9	19

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	SiGeC Waveguide for All-Optical Data Switching. <i>ACS Photonics</i> , 2018, 5, 2251-2260.	6.6	15
23	Large-Signal Modulation Performance of Light-Emitting Diodes With Photonic Crystals for Visible Light Communication. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4375-4380.	3.0	15
24	Two-Photon Absorption-Free Ultrafast Optical Switching in Carbon-Rich SiC Microring. <i>Advanced Materials Technologies</i> , 2017, 2, 1700095.	5.8	14
25	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
26	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
27	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
28	Multimode VCSEL Enables 42-GBaud PAM-4 and 35-GBaud 16-QAM OFDM for 100-m OM5 MMF Data Link. <i>IEEE Access</i> , 2020, 8, 36963-36973.	4.2	12
29	Temperature and Noise Dependence of Tri-Mode VCSEL Carried 120-Gbit/s QAM-OFDM Data in Back-to-Back and OM5-MMF Links. <i>Journal of Lightwave Technology</i> , 2020, 38, 6746-6758.	4.6	11
30	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
31	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
32	High-Temperature Insensitivity of 50-Gb/s 16-QAM-DMT Transmission by Using the Temperature-Compensated Vertical-Cavity Surface-Emitting Lasers. <i>Journal of Lightwave Technology</i> , 2018, 36, 3332-3343.	4.6	9
33	Unintentional Polarization Dependent Pulswidth 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
34	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
35	100-Gbit/s EML Transmitter and PIN-PD+TIA Receiver-Based Inter-Data Center Link. <i>Journal of Lightwave Technology</i> , 2020, 38, 2144-2151.	4.6	8
36	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

#	ARTICLE	IF	CITATIONS
37	Effect of Chirped Dispersion and Modal Partition Noise on Multimode VCSEL Encoded With NRZ-OOK and PAM-4 Formats. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-9.	2.9	8
38	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
39	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
40	Comparison on OM5-MMF and OM4-MMF Data Links With 32-GBaud PAM-4 Modulated Few-Mode VCSEL at 850Ånm. Journal of Lightwave Technology, 2020, 38, 573-582.	4.6	7
41	Comparing the Dual-Mode VCSEL in OM4-MMF and GI-SMF Links for NRZ-OOK and 16-QAM-OFDM Transmissions. IEEE Photonics Journal, 2022, 14, 1-13.	2.0	7
42	Polarization-manipulated all-optical cross-wavelength data inversion in a C-rich SiC_x/sub> micro-ring. Journal of Materials Chemistry C, 2017, 5, 10158-10166.	5.5	6
43	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
44	Photonic Crystal Structured Multi-Mode VCSELs Enabling 92-Gbit/s QAM-OFDM Transmission. Journal of Lightwave Technology, 2021, 39, 4331-4340.	4.6	6
45	Reusing Downstream Carrier in Colorless Laser Diode for Full-Duplex 64-QAM OFDM. Journal of Lightwave Technology, 2015, 33, 1780-1787.	4.6	5
46	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
47	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
48	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
49	Long-Reach MMWoF Using Single-Sideband Modulated Dual-Mode VCSEL with 16-QAM OFDM at 8 Gbit/s. , 2017, , .		4
50	Ge p-i-n Photodiode as 60-Gbit/s Optical NRZ-OOK Data Receiver. Journal of Lightwave Technology, 2022, 40, 4326-4336.	4.6	4
51	C-Band Silicon Waveguide Modulation With 50-Gbit/s NRZ-OOK Over 10-km SMF and DSF. IEEE Journal of Quantum Electronics, 2021, 57, 1-9.	1.9	3
52	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
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	850-nm Dual-Mode VCSEL Carried 53-Gbps NRZ- OOK Transmission in 100-m Graded-Index Single-Mode Fiber. , 2021, , .		1
56	Chirp control of 10-GHz harmonic mode-locked weak-resonant-cavity fabry-perot laser diode with reduced end-facet reflectance. , 2013, , .		0
57	Master-to-slave injection-locked WRC-FPLD for multi-QAM-OFDM transmission. , 2014, , .		0
58	Investigation of mirror-resistance reduction in the signal transmission integrity of VCSELs. , 2017, , .		0
59	High-Baud-Rate 32-QAM OFDM Single-arm and Dual-arm Encoded Silicon Mach-Zehnder Modulator. , 2021, , .		0
60	Regional Pulsewidth and Delay Nonuniformity of Modulated 940-nm Vertical-Cavity Surface-Emitting Laser Array. Advanced Photonics Research, 0, , 2100133.	3.6	0