

Huai-Yung Wang

List of Publications by Year in descending order

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70
papers

1,788
citations

394421

19
h-index

276875

41
g-index

72
all docs

72
docs citations

72
times ranked

1798
citing authors

#	ARTICLE	IF	CITATIONS
1	48 Gbit/s 16-QAM-OFDM transmission based on compact 450-nm laser for underwater wireless optical communication. Optics Express, 2015, 23, 23302.	3.4	266
2	Tricolor R/G/B Laser Diode Based Eye-Safe White Lighting Communication Beyond 8 Gbit/s. Scientific Reports, 2017, 7, 11.	3.3	237
3	Blue Laser Diode Enables Underwater Communication at 12.4 Gbps. Scientific Reports, 2017, 7, 40480.	3.3	177
4	Going beyond 4 Gbps data rate by employing RGB laser diodes for visible light communication. Optics Express, 2015, 23, 18746.	3.4	127
5	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
6	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. ACS Photonics, 2015, 2, 1141-1154.	6.6	72
7	Si-rich SiNx based Kerr switch enables optical data conversion up to 12 Gbit/s. Scientific Reports, 2015, 5, 9611.	3.3	63
8	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
9	850/940-nm VCSEL for optical communication and 3D sensing. Opto-Electronic Advances, 2018, 1, 18000501-18000511.	13.3	42
10	Ultrahigh-speed violet laser diode based free-space optical communication beyond 25 Gbit/s. Scientific Reports, 2018, 8, 13142.	3.3	41
11	39-GHz Millimeter-Wave Carrier Generation in Dual-Mode Colorless Laser Diode for OFDM-MMWofF Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 609-618.	2.9	34
12	Few-mode VCSEL chip for 100-Gb/s transmission over 100 μm multimode fiber. Photonics Research, 2017, 5, 507.	7.0	33
13	Single-mode VCSEL for pre-emphasis PAM-4 transmission up to 64 Gbit/s over 100 μm OM4 MME. Photonics Research, 2018, 6, 666.	7.0	32
14	Blue Laser Diode Based Free-space Optical Data Transmission elevated to 18 Gbps over 16 μm. Scientific Reports, 2017, 7, 10478.	3.3	31
15	Millimeter-Wave Carrier Embedded Dual-Color Laser Diode for 5G MMW of Link. Journal of Lightwave Technology, 2017, 35, 2409-2420.	4.6	28
16	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
17	Nonstoichiometric SiC Bus/Ring Waveguide Based All-Optical Data Format Follower and Inverter. ACS Photonics, 2016, 3, 806-818.	6.6	27
18	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

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19	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
20	CdSe/ZnS core-shell quantum dot assisted color conversion of violet laser diode for white lighting communication. <i>Nanophotonics</i> , 2019, 8, 2189-2201.	6.0	19
21	Comparison of High-Speed PAM4 and QAM-OFDM Data Transmission Using Single-Mode VCSEL in OM5 and OM4 MMF Links. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-10.	2.9	19
22	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
23	SiGeC Waveguide for All-Optical Data Switching. <i>ACS Photonics</i> , 2018, 5, 2251-2260.	6.6	15
24	White-light color conversion with red/green/violet laser diodes and yellow light-emitting diode mixing for 34.8 Gbit/s visible lighting communication. <i>Photonics Research</i> , 2020, 8, 1398.	7.0	15
25	Two-Photon Absorption-Free Ultrafast Optical Switching in Carbon-Rich SiC Microring. <i>Advanced Materials Technologies</i> , 2017, 2, 1700095.	5.8	14
26	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
27	Realizing multi-functional all-optical data processing on nanoscale SiC waveguides. <i>Scientific Reports</i> , 2018, 8, 14859.	3.3	14
28	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
29	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
30	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
31	Color-Converting Violet Laser Diode with an Ultrafast BEHP-PPV + MEH-PPV Polymer Blend for High-Speed White Lighting Data Link. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3017-3027.	4.3	12
32	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
33	Wireless optical transmission of 450 nm, 3.2 Gbit/s 16-QAM-OFDM signals over 6.6 m underwater channel. , 2016, , .		11
34	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
35	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
36	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

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37	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
38	Cost-efficient half-duplex 10-Gbit/s all-optical indoor optical wireless communication enabled by a low-cost Fabry-Perot laser/photodetector. <i>Optics Letters</i> , 2019, 44, 1158.	3.3	9
39	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
40	Effect of Chirped Dispersion and Modal Partition Noise on Multimode VCSEL Encoded With NRZ-OOK and PAM-4 Formats. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-9.	2.9	8
41	17.6-Gbps Universal Filtered Multi-Carrier Encoding of GaN Blue LD for Visible Light Communication. , 2017, , .		8
42	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
43	Comparison on OM5-MMF and OM4-MMF Data Links With 32-GBaud PAM-4 Modulated Few-Mode VCSEL at 850-nm. <i>Journal of Lightwave Technology</i> , 2020, 38, 573-582.	4.6	7
44	VCSEL with bi-layer oxidized aperture enables 140-Gbit/s OFDM Transmission over 100-m-long OM5 MMF. , 2019, , .		7
45	Polarization-manipulated all-optical cross-wavelength data inversion in a C-rich SiC micro-ring. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10158-10166.	5.5	6
46	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
47	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
48	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
49	Amplitude/Polarization Shift Keying Based and Logic Gate in Polarization Dependent C-Rich SiC Ring Waveguide. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	2.9	4
50	4-QAM OFDM Data Switching via Free Carrier Absorption in Si-Rich SiC Waveguide. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	2.9	4
51	QAM-GFDM of Dual-Mode VCSEL Mixed 28-GHz MMW Carrier for Fiber-Wireless Link. <i>Journal of Lightwave Technology</i> , 2021, 39, 6076-6084.	4.6	4
52	Microwave transport systems that use semiconductor laser as radio-frequency amplifier. <i>Optics Communications</i> , 2012, 285, 2433-2438.	2.1	3
53	Suppression of Relative Intensity and Mode Partition Noises in Orthogonally Polarized Dual-Wavelength VCSEL. <i>Journal of Lightwave Technology</i> , 2020, 38, 6612-6622.	4.6	3
54	Quad-Mode VCSEL Optical Carrier for Long-Reach Ka-Band Millimeter-Wave Over Fiber Link. <i>IEEE Journal on Selected Areas in Communications</i> , 2021, 39, 2838-2848.	14.0	3

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55	Nonlinear and low-loss tantalum pentoxide based micro-ring resonator by ion-assisted electron-beam deposition. OSA Continuum, 2020, 3, 3433.	1.8	3
56	Compact High-Power Visible Laser Diode Wavelength Division Multiplexing for White-Light Communication. Advanced Photonics Research, 2021, 2, 2100075.	3.6	2
57	Miniature R/G/V-LDs+Y-LED Mixed White-Lighting Module with High-Lux and High-CRI for 20-Gbps Li-Fi. , 2020, , .		2
58	40-Gbit/s Pulsed RZ-BPSK Transmission With a 40-GHz Self-Pulsated Distributed Feedback Laser Diode Mach-Zehnder Intensity Modulator Link. Journal of Optical Communications and Networking, 2014, 6, 610.	4.8	1
59	Nanoscale Carbon-Rich SiC Bus/Ring Waveguide Based Cross-Wavelength Data Converter. Annalen Der Physik, 2019, 531, 1800414.	2.4	1
60	Resistor Inductor Capacitor Impedance Optimization of Violet Laser Diodes for Free-Space Quadrature Amplitude Modulation Orthogonal Frequency Division Multiplexing Data Link. IEEE Transactions on Industrial Electronics, 2021, 68, 7684-7692.	7.9	1
61	Tri-color Optical Transmitter with Embedding 28-GHz Millimeter-wave Carrier for 5G Mobile over Fiber. , 2017, , .		1
62	60-Gbit/s QAM-OFDM Direct-Encoded Colorless Laser Diode Uniform Transmitter for DWDM-PON Channels. , 2017, , .		1
63	Four-Wave-Mixing-Free 12-Gbit/s MMWof Transmission with Orthogonally Polarized Dual Wavelength Diode Laser. , 2016, , .		1
64	10 Gbit/s Carbon-Rich SiC Based All-Optical Data Invertor. , 2016, , .		1
65	Seawater Communication with Blue Laser Carried 16-QAM OFDM at 3.7 GBaud. , 2018, , .		1
66	Over 10-Gbit/s Pulsed RZ-OOK Wavelength and Format Switching in Two-Photon-Absorption-Free SiC Waveguide. , 2017, , .		0
67	RC Time Constant and Resistance Reduced VCSEL for Broadband QAM-OFDM. , 2018, , .		0
68	30 Gbit/s Optical Wireless Communication with Red/Green/Violet LD Mixed White Light. , 2019, , .		0
69	40-Gbit/s RZ-BPSK and reused RZ-OOK bi-directional transmission with a self-pulsated modulator. , 2013, , .		0
70	Violet laser diode based 25-Gbps point-to-point and 12-Gbps MEH/BBEHP converted white lighting QAM-OFDM link. , 2019, , .		0