Hyunchae Chun

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	2,425 citations	361413 20 h-index	414414 32 g-index
43 all docs	43 docs citations	43 times ranked	2070 citing authors

#	Article	IF	Citations
1	RCS-OFDM enabling full brightness control with power-efficient visible-light communication. Optics Letters, 2022, 47, 277.	3.3	3
2	High CRI RGB Laser Lighting With 11-Gb/s WDM Link Using Off-the-Shelf Phosphor Plate. IEEE Photonics Technology Letters, 2022, 34, 97-100.	2.5	7
3	Smart License Plate in Combination with Fluorescent Concentrator for Vehicular Visible Light Communication System. Sensors, 2022, 22, 2485.	3.8	3
4	Bi-LSTM-Augmented Deep Neural Network for Multi-Gbps VCSEL-Based Visible Light Communication Link. Sensors, 2022, 22, 4145.	3.8	6
5	Optimum Device and Modulation Scheme Selection for Optical Wireless Communications. Journal of Lightwave Technology, 2021, 39, 2281-2287.	4.6	8
6	Reflection based coupling efficiency enhancement in a fluorescent planar concentrator for an optical wireless receiver. Optics Express, 2021, 29, 28901.	3.4	3
7	Fluorescent reflector and image-processing-based D2D beam-steering system for V2V applications. Applied Optics, 2021, 60, 7152.	1.8	2
8	A High Speed Retro-Reflective Free Space Optics Links With UAV. Journal of Lightwave Technology, 2021, 39, 5699-5705.	4.6	10
9	Utilization of LED Grow Lights for Optical Wireless Communication-Based RF-Free Smart-Farming System. Sensors, 2021, 21, 6833.	3.8	5
10	Optical Antennas for Wavelength Division Multiplexing in Visible Light Communications beyond the Ã‰tendue Limit. Advanced Optical Materials, 2020, 8, 1901139.	7.3	29
11	Investigation of frequency dependent nonlinearity on pulse amplitude modulation in bandlimited visible light communications. Optics Communications, 2020, 472, 126040.	2.1	1
12	Transmitter and receiver technologies for optical wireless. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190182.	3.4	26
13	The Future Prospects for SiPM-Based Receivers for Visible Light Communications. Journal of Lightwave Technology, 2019, 37, 4367-4374.	4.6	28
14	A Wide-Area Coverage 35â€‰Gb/s Visible Light Communications Link for Indoor Wireless Applications. Scientific Reports, 2019, 9, 4952.	3.3	68
15	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. IEEE Photonics Technology Letters, 2019, 31, 821-824.	2.5	28
16	A Comparison of APD- and SPAD-Based Receivers for Visible Light Communications. Journal of Lightwave Technology, 2018, 36, 2435-2442.	4.6	68
17	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	12
18	Ultra-wide coverage VLC system with alignment-free receiver. , 2018, , .		5

#	Article	IF	Citations
19	Efficient pulse amplitude modulation for SPAD-based receivers. , 2018, , .		2
20	Impact of multipath reflections on secrecy in VLC systems with randomly located eavesdroppers. , 2018, , .		19
21	A spectrally efficient equalization technique for optical sources with direct modulation. Optics Letters, 2018, 43, 2708.	3.3	8
22	MIMO Visible Light Communications Using a Wide Field-of-View Fluorescent Concentrator. IEEE Photonics Technology Letters, 2017, 29, 306-309.	2.5	21
23	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. Journal of Lightwave Technology, 2017, 35, 4358-4365.	4.6	40
24	A review of gallium nitride LEDs for multi-gigabit-per-second visible light data communications. Semiconductor Science and Technology, 2017, 32, 023001.	2.0	205
25	Design, Fabrication, and Application of GaN-Based Micro-LED Arrays With Individual Addressing by N-Electrodes. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	22
26	Handheld free space quantum key distribution with dynamic motion compensation. Optics Express, 2017, 25, 6784.	3.4	44
27	High Bandwidth GaN-Based Micro-LEDs for Multi-Gb/s Visible Light Communications. IEEE Photonics Technology Letters, 2016, 28, 2023-2026.	2.5	276
28	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052.	4.6	187
29	Wide field-of-view fluorescent antenna for visible light communications beyond the Ã©tendue limit. Optica, 2016, 3, 702.	9.3	73
30	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
31	A 200 Mb/s VLC demonstration with a SPAD based receiver. , 2015, , .		28
32	Novel Fast Color-Converter for Visible Light Communication Using a Blend of Conjugated Polymers. ACS Photonics, 2015, 2, 194-199.	6.6	57
33	Visible light communication using laser diode based remote phosphor technique. , 2015, , .		30
34	Demonstration of 2.3 Gb/s RGB white-light VLC using polymer based colour-converters and GaN micro-LEDs. , 2015, , .		17
35	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs. , 2015, , .		13
36	Fluorescent Redâ€Emitting BODIPY Oligofluorene Starâ€Shaped Molecules as a Color Converter Material for Visible Light Communications. Advanced Optical Materials, 2015, 3, 536-540.	7.3	44

#	Article	IF	Citations
37	Imaging-MIMO visible light communication system using μLEDs and integrated receiver. , 2014, , .		14
38	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $mu{m LED}$. IEEE Photonics Technology Letters, 2014, 26, 637-640.	2.5	722
39	Effectiveness of blue-filtering in WLED based indoor Visible light communication. , 2014, , .		14
40	Visible Light Communication Using a Blue GaN $mu $ LED and Fluorescent Polymer Color Converter. IEEE Photonics Technology Letters, 2014, 26, 2035-2038.	2.5	109
41	A Study of Illumination and Communication using Organic Light Emitting Diodes. Journal of Lightwave Technology, 2013, 31, 3511-3517.	4.6	38
42	Visible light communication using OLEDs: Illumination and channel modeling. , 2012, , .		24
43	Whiteâ€light visible light communications based on multiple photoluminescence of fluorescent acrylic sheets. IET Optoelectronics, 0, , .	3.3	0