

Dominic O'Brien

List of Publications by Year in descending order

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75
papers

4,323
citations

279487

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395343

33
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75
all docs

75
docs citations

75
times ranked

2796
citing authors

#	ARTICLE	IF	CITATIONS
1	QoS-Driven Load Balancing in Hybrid LiFi and WiFi Networks. IEEE Transactions on Wireless Communications, 2022, 21, 2136-2146.	6.1	8
2	A Digital Pre-Equalizer For Optical Wireless Links. Journal of Lightwave Technology, 2022, 40, 961-967.	2.7	6
3	Multidomain Suppression of Ambient Light in Visible Light Communication Transceivers. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18145-18154.	4.7	2
4	Experimental Characterization of Turbo-Coded 20 Gbps Fiber-Wireless-Fiber Optical Links. IEEE Access, 2021, 9, 112726-112732.	2.6	0
5	Raised Cosine Pulse Shaping for Pre-equalized Optical Wireless Links. IEEE Photonics Technology Letters, 2021, 33, 912-915.	1.3	4
6	A High Speed Retro-Reflective Free Space Optics Links With UAV. Journal of Lightwave Technology, 2021, 39, 5699-5705.	2.7	10
7	Optical Antennas for Wavelength Division Multiplexing in Visible Light Communications beyond the Å%tendue Limit. Advanced Optical Materials, 2020, 8, 1901139.	3.6	29
8	A Novel Handover Scheme for Hybrid LiFi and WiFi Networks. , 2020, , .		9
9	Design and Characterisation of Terabit/s Capable Compact Localisation and Beam-Steering Terminals for Fiber-Wireless-Fiber Links. Journal of Lightwave Technology, 2020, 38, 6817-6826.	2.7	23
10	Fiber-Wireless-Fiber Terminals for Optical Wireless Communication over Multiple Bands. , 2020, , .		4
11	Transmitter and receiver technologies for optical wireless. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190182.	1.6	26
12	The relationships between the amplitude of receiver output voltage and the maximum achievable OOK data rate. , 2020, , .		3
13	A Shot-Noise Limited 420 Mbps Visible Light Communication System using Commerical Off-the-Shelf Silicon Photomultiplier (SiPM). , 2019, , .		10
14	A Wide-Area Coverage 35â€%Gb/s Visible Light Communications Link for Indoor Wireless Applications. Scientific Reports, 2019, 9, 4952.	1.6	68
15	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. IEEE Photonics Technology Letters, 2019, 31, 821-824.	1.3	28
16	A Comparison of APD- and SPAD-Based Receivers for Visible Light Communications. Journal of Lightwave Technology, 2018, 36, 2435-2442.	2.7	68
17	Efficient pulse amplitude modulation for SPAD-based receivers. , 2018, , .		2
18	Impact of multipath reflections on secrecy in VLC systems with randomly located eavesdroppers. , 2018, , .		19

#	ARTICLE	IF	CITATIONS
19	A spectrally efficient equalization technique for optical sources with direct modulation. Optics Letters, 2018, 43, 2708.	1.7	8
20	MIMO Visible Light Communications Using a Wide Field-of-View Fluorescent Concentrator. IEEE Photonics Technology Letters, 2017, 29, 306-309.	1.3	21
21	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. Journal of Lightwave Technology, 2017, 35, 4358-4365.	2.7	40
22	Design, Fabrication, and Application of GaN-Based Micro-LED Arrays With Individual Addressing by N-Electrodes. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	22
23	A 50 Gb/s Transparent Indoor Optical Wireless Communications Link With an Integrated Localization and Tracking System. Journal of Lightwave Technology, 2016, 34, 2510-2517.	2.7	63
24	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052.	2.7	187
25	Design and Demonstration of a 400 Gb/s Indoor Optical Wireless Communications Link. Journal of Lightwave Technology, 2016, 34, 5332-5339.	2.7	51
26	Mode Coupling Effects in Ring-Core Fibers for Space-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 3365-3372.	2.7	50
27	Optical receiver front end for optically powered smart dust. International Journal of Circuit Theory and Applications, 2015, 43, 840-853.	1.3	6
28	High-Speed Integrated Visible Light Communication System: Device Constraints and Design Considerations. IEEE Journal on Selected Areas in Communications, 2015, 33, 1750-1757.	9.7	106
29	Challenges in Wide Coverage Indoor Optical Communications Using Fibre-Wireless-Fibre Links for Terabit Data Rates. , 2015, , .		4
30	A 200 Mb/s VLC demonstration with a SPAD based receiver. , 2015, , .		28
31	Beyond 100-Gb/s Indoor Wide Field-of-View Optical Wireless Communications. IEEE Photonics Technology Letters, 2015, 27, 367-370.	1.3	109
32	Novel Fast Color-Converter for Visible Light Communication Using a Blend of Conjugated Polymers. ACS Photonics, 2015, 2, 194-199.	3.2	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 Red-Emitting BODIPY Oligofluorene Star-Shaped Molecules as a Color Converter Material for Visible Light Communications. Advanced Optical Materials, 2015, 3, 536-540.	3.6	44

#	ARTICLE	IF	CITATIONS
37	Imaging-MIMO visible light communication system using μLEDs and integrated receiver. , 2014, , .		14
38	High gain, wide field of view concentrator for optical communications. Optics Letters, 2014, 39, 1756.	1.7	54
39	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $\mu\text{-m LED}$. IEEE Photonics Technology Letters, 2014, 26, 637-640.	1.3	722
40	Effectiveness of blue-filtering in WLED based indoor Visible light communication. , 2014, , .		14
41	Experimental comparisons of optical OFDM approaches in visible light communications. , 2013, , .		7
42	LED holographic beam-steering for visible-light communications. , 2013, , .		3
43	Propagation and scattering model of infrared and ultraviolet light in turbid water. , 2013, , .		4
44	Architectures for future sensor networks. , 2013, , .		1
45	Performance metrics for Multi-Input Multi-Output (MIMO) visible light communications. , 2012, , .		11
46	High data rate optical wireless communications: Where next?. , 2012, , .		1
47	Wireless Myths, Realities, and Futures: From 3G/4G to Optical and Quantum Wireless. Proceedings of the IEEE, 2012, 100, 1853-1888.	16.4	315
48	High-Speed Optical Wireless Demonstrators: Conclusions and Future Directions. Journal of Lightwave Technology, 2012, 30, 2181-2187.	2.7	124
49	Visible light communication using OLEDs: Illumination and channel modeling. , 2012, , .		24
50	Optical Wireless OFDM System on FPGA: Study of LED Nonlinearity Effects. , 2011, , .		17
51	Visible Light Communications: Challenges and potential. , 2011, , .		69
52	Indoor Optical Wireless MIMO System With an Imaging Receiver. IEEE Photonics Technology Letters, 2011, 23, 97-99.	1.3	177
53	Multiresolution PPM for Broadcasting over Asymmetric Photon Counting Channels. IEEE Communications Letters, 2011, 15, 1268-1270.	2.5	2
54	A gigabit/s indoor optical wireless system for Home Access Networks. , 2010, , .		3

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55	Optical Multi-Input Multi-Output systems for short-range free-space data transmission. , 2010, , .		7
56	High data-rate infra-red optical wireless communications: Implementation challenges. , 2010, , .		7
57	Modal decomposition of output field for holographic mode field generation in a multimode fiber channel. , 2010, , .		24
58	Demonstration of high-speed data transmission using MIMO-OFDM visible light communications. , 2010, , .		56
59	Gigabit optical wireless: Results and future challenges. , 2010, , .		0
60	Holographic mode field generation for a multimode fiber channel. , 2010, , .		10
61	Indoor Gigabit optical wireless communications: Challenges and possibilities. , 2010, , .		39
62	Multi-input multi-output (MIMO) indoor optical wireless communications. , 2009, , .		31
63	Gigabit optical wireless for a Home Access Network. , 2009, , .		11
64	100-Mb/s NRZ Visible Light Communications Using a Postequalized White LED. IEEE Photonics Technology Letters, 2009, 21, 1063-1065.	1.3	521
65	Optical wireless networks using self-powered nodes. , 2009, , .		2
66	Improvement of Data Rate by using Equalization in an Indoor Visible Light Communication System. , 2008, , .		115
67	Equalisation for high-speed Visible Light Communications using white-LEDs. , 2008, , .		12
68	High-Speed Visible Light Communications Using Multiple-Resonant Equalization. IEEE Photonics Technology Letters, 2008, 20, 1243-1245.	1.3	305
69	RF/FSO Wireless Sensor Networks: A Performance Study. , 2008, , .		14
70	Lifetime comparison of RF-only and hybrid RF/FSO wireless sensor networks. , 2008, , .		4
71	80 Mbit/s Visible Light Communications using pre-equalized white LED. , 2008, , .		61
72	Visible light communications: Challenges and possibilities. , 2008, , .		280

#	ARTICLE	IF	CITATIONS
73	An optically powered, free space optical communications receiver. , 2008, , .		5
74	Joint Antenna and User Selection Algorithm for Uplink of Multiuser MIMO Systems using Sequential Monte Carlo Optimization. , 2007, , .		11
75	Optical hotspots speed up wireless communication. Nature Photonics, 2007, 1, 245-247.	15.6	71