

Dominic O'Brien

List of Publications by Year in descending order

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75
papers

4,323
citations

279487

23
h-index

395343

33
g-index

75
all docs

75
docs citations

75
times ranked

2796
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride $\mu\text{-LED}$. IEEE Photonics Technology Letters, 2014, 26, 637-640.	1.3	722
2	100-Mb/s NRZ Visible Light Communications Using a Postequalized White LED. IEEE Photonics Technology Letters, 2009, 21, 1063-1065.	1.3	521
3	Wireless Myths, Realities, and Futures: From 3G/4G to Optical and Quantum Wireless. Proceedings of the IEEE, 2012, 100, 1853-1888.	16.4	315
4	High-Speed Visible Light Communications Using Multiple-Resonant Equalization. IEEE Photonics Technology Letters, 2008, 20, 1243-1245.	1.3	305
5	Visible light communications: Challenges and possibilities. , 2008, , .		280
6	LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052.	2.7	187
7	Indoor Optical Wireless MIMO System With an Imaging Receiver. IEEE Photonics Technology Letters, 2011, 23, 97-99.	1.3	177
8	High-Speed Optical Wireless Demonstrators: Conclusions and Future Directions. Journal of Lightwave Technology, 2012, 30, 2181-2187.	2.7	124
9	Improvement of Data Rate by using Equalization in an Indoor Visible Light Communication System. , 2008, , .		115
10	Beyond 100-Gb/s Indoor Wide Field-of-View Optical Wireless Communications. IEEE Photonics Technology Letters, 2015, 27, 367-370.	1.3	109
11	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
12	Optical hotspots speed up wireless communication. Nature Photonics, 2007, 1, 245-247.	15.6	71
13	Visible Light Communications: Challenges and potential. , 2011, , .		69
14	A Comparison of APD- and SPAD-Based Receivers for Visible Light Communications. Journal of Lightwave Technology, 2018, 36, 2435-2442.	2.7	68
15	A Wide-Area Coverage 35â€‰%Gb/s Visible Light Communications Link for Indoor Wireless Applications. Scientific Reports, 2019, 9, 4952.	1.6	68
16	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
17	80 Mbit/s Visible Light Communications using pre-equalized white LED. , 2008, , .		61
18	Novel Fast Color-Converter for Visible Light Communication Using a Blend of Conjugated Polymers. ACS Photonics, 2015, 2, 194-199.	3.2	57

#	ARTICLE	IF	CITATIONS
19	Demonstration of high-speed data transmission using MIMO-OFDM visible light communications. , 2010, , .		56
20	High gain, wide field of view concentrator for optical communications. Optics Letters, 2014, 39, 1756.	1.7	54
21	Design and Demonstration of a 400 Gb/s Indoor Optical Wireless Communications Link. Journal of Lightwave Technology, 2016, 34, 5332-5339.	2.7	51
22	Mode Coupling Effects in Ring-Core Fibers for Space-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 3365-3372.	2.7	50
23	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
24	A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. Journal of Lightwave Technology, 2017, 35, 4358-4365.	2.7	40
25	Indoor Gigabit optical wireless communications: Challenges and possibilities. , 2010, , .		39
26	Multi-input multi-output (MIMO) indoor optical wireless communications. , 2009, , .		31
27	Visible light communication using laser diode based remote phosphor technique. , 2015, , .		30
28	Optical Antennas for Wavelength Division Multiplexing in Visible Light Communications beyond the Åtendue Limit. Advanced Optical Materials, 2020, 8, 1901139.	3.6	29
29	A 200 Mb/s VLC demonstration with a SPAD based receiver. , 2015, , .		28
30	Neural Network-Based Joint Spatial and Temporal Equalization for MIMO-VLC System. IEEE Photonics Technology Letters, 2019, 31, 821-824.	1.3	28
31	Transmitter and receiver technologies for optical wireless. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190182.	1.6	26
32	Modal decomposition of output field for holographic mode field generation in a multimode fiber channel. , 2010, , .		24
33	Visible light communication using OLEDs: Illumination and channel modeling. , 2012, , .		24
34	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
35	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
36	MIMO Visible Light Communications Using a Wide Field-of-View Fluorescent Concentrator. IEEE Photonics Technology Letters, 2017, 29, 306-309.	1.3	21

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37	Impact of multipath reflections on secrecy in VLC systems with randomly located eavesdroppers. , 2018, , .		19
38	Optical Wireless OFDM System on FPGA: Study of LED Nonlinearity Effects. , 2011, , .		17
39	Demonstration of 2.3 Gb/s RGB white-light VLC using polymer based colour-converters and GaN micro-LEDs. , 2015, , .		17
40	RF/FSO Wireless Sensor Networks: A Performance Study. , 2008, , .		14
41	Imaging-MIMO visible light communication system using μLEDs and integrated receiver. , 2014, , .		14
42	Effectiveness of blue-filtering in WLED based indoor Visible light communication. , 2014, , .		14
43	Experimental proof-of-concept of optical spatial modulation OFDM using micro LEDs. , 2015, , .		13
44	Equalisation for high-speed Visible Light Communications using white-LEDs. , 2008, , .		12
45	Joint Antenna and User Selection Algorithm for Uplink of Multiuser MIMO Systems using Sequential Monte Carlo Optimization. , 2007, , .		11
46	Gigabit optical wireless for a Home Access Network. , 2009, , .		11
47	Performance metrics for Multi-Input Multi-Output (MIMO) visible light communications. , 2012, , .		11
48	Holographic mode field generation for a multimode fiber channel. , 2010, , .		10
49	A Shot-Noise Limited 420 Mbps Visible Light Communication System using Commerical Off-the-Shelf Silicon Photomultiplier (SiPM). , 2019, , .		10
50	A High Speed Retro-Reflective Free Space Optics Links With UAV. Journal of Lightwave Technology, 2021, 39, 5699-5705.	2.7	10
51	A Novel Handover Scheme for Hybrid LiFi and WiFi Networks. , 2020, , .		9
52	QoS-Driven Load Balancing in Hybrid LiFi and WiFi Networks. IEEE Transactions on Wireless Communications, 2022, 21, 2136-2146.	6.1	8
53	A spectrally efficient equalization technique for optical sources with direct modulation. Optics Letters, 2018, 43, 2708.	1.7	8
54	Optical Multi-Input Multi-Output systems for short-range free-space data transmission. , 2010, , .		7

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55	High data-rate infra-red optical wireless communications: Implementation challenges. , 2010, , .		7
56	Experimental comparisons of optical OFDM approaches in visible light communications. , 2013, , .		7
57	Optical receiver front end for optically powered smart dust. International Journal of Circuit Theory and Applications, 2015, 43, 840-853.	1.3	6
58	A Digital Pre-Equalizer For Optical Wireless Links. Journal of Lightwave Technology, 2022, 40, 961-967.	2.7	6
59	An optically powered, free space optical communications receiver. , 2008, , .		5
60	Lifetime comparison of RF-only and hybrid RF/FSO wireless sensor networks. , 2008, , .		4
61	Propagation and scattering model of infrared and ultraviolet light in turbid water. , 2013, , .		4
62	Challenges in Wide Coverage Indoor Optical Communications Using Fibre-Wireless-Fibre Links for Terabit Data Rates. , 2015, , .		4
63	Fiber-Wireless-Fiber Terminals for Optical Wireless Communication over Multiple Bands. , 2020, , .		4
64	Raised Cosine Pulse Shaping for Pre-equalized Optical Wireless Links. IEEE Photonics Technology Letters, 2021, 33, 912-915.	1.3	4
65	A gigabit/s indoor optical wireless system for Home Access Networks. , 2010, , .		3
66	LED holographic beam-steering for visible-light communications. , 2013, , .		3
67	The relationships between the amplitude of receiver output voltage and the maximum achievable OOK data rate. , 2020, , .		3
68	Optical wireless networks using self-powered nodes. , 2009, , .		2
69	Multiresolution PPM for Broadcasting over Asymmetric Photon Counting Channels. IEEE Communications Letters, 2011, 15, 1268-1270.	2.5	2
70	Efficient pulse amplitude modulation for SPAD-based receivers. , 2018, , .		2
71	Multidomain Suppression of Ambient Light in Visible Light Communication Transceivers. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18145-18154.	4.7	2
72	High data rate optical wireless communications: Where next?. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
73	Architectures for future sensor networks. , 2013, , .		1
74	Gigabit optical wireless: Results and future challenges. , 2010, , .		0
75	Experimental Characterization of Turbo-Coded 20 Gbps Fiber-Wireless-Fiber Optical Links. IEEE Access, 2021, 9, 112726-112732.	2.6	0