

Dominic O'Brien

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

4,323
citations

279798
23
h-index

395702
33
g-index

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. | 9.2 | 8 |
| 2 | A Digital Pre-Equalizer For Optical Wireless Links. Journal of Lightwave Technology, 2022, 40, 961-967. | 4.6 | 6 |
| 3 | Multidomain Suppression of Ambient Light in Visible Light Communication Transceivers. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18145-18154. | 8.0 | 2 |
| 4 | Experimental Characterization of Turbo-Coded 20 Gbps Fiber-Wireless-Fiber Optical Links. IEEE Access, 2021, 9, 112726-112732. | 4.2 | 0 |
| 5 | Raised Cosine Pulse Shaping for Pre-equalized Optical Wireless Links. IEEE Photonics Technology Letters, 2021, 33, 912-915. | 2.5 | 4 |
| 6 | A High Speed Retro-Reflective Free Space Optics Links With UAV. Journal of Lightwave Technology, 2021, 39, 5699-5705. | 4.6 | 10 |
| 7 | Optical Antennas for Wavelength Division Multiplexing in Visible Light Communications beyond the Å%tendue Limit. Advanced Optical Materials, 2020, 8, 1901139. | 7.3 | 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. | 4.6 | 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. | 3.4 | 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. | 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 | 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. | 3.3 | 8 |
| 20 | MIMO Visible Light Communications Using a Wide Field-of-View Fluorescent Concentrator. IEEE Photonics Technology Letters, 2017, 29, 306-309. | 2.5 | 21 |
| 21 | A Multigigabit per Second Integrated Multiple-Input Multiple-Output VLC Demonstrator. Journal of Lightwave Technology, 2017, 35, 4358-4365. | 4.6 | 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. | 2.0 | 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. | 4.6 | 63 |
| 24 | LED Based Wavelength Division Multiplexed 10 Gb/s Visible Light Communications. Journal of Lightwave Technology, 2016, 34, 3047-3052. | 4.6 | 187 |
| 25 | Design and Demonstration of a 400 Gb/s Indoor Optical Wireless Communications Link. Journal of Lightwave Technology, 2016, 34, 5332-5339. | 4.6 | 51 |
| 26 | Mode Coupling Effects in Ring-Core Fibers for Space-Division Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 3365-3372. | 4.6 | 50 |
| 27 | Optical receiver front end for optically powered smart dust. International Journal of Circuit Theory and Applications, 2015, 43, 840-853. | 2.0 | 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. | 14.0 | 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. | 2.5 | 109 |
| 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 Red-Emitting BODIPY Oligofluorene Star-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 μ LEDs and integrated receiver. , 2014, , . | | 14 |
| 38 | High gain, wide field of view concentrator for optical communications. Optics Letters, 2014, 39, 1756. | 3.3 | 54 |
| 39 | A 3-Gb/s Single-LED OFDM-Based Wireless VLC Link Using a Gallium Nitride μ LED. IEEE Photonics Technology Letters, 2014, 26, 637-640. | 2.5 | 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. | 21.3 | 315 |
| 48 | High-Speed Optical Wireless Demonstrators: Conclusions and Future Directions. Journal of Lightwave Technology, 2012, 30, 2181-2187. | 4.6 | 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. | 2.5 | 177 |
| 53 | Multiresolution PPM for Broadcasting over Asymmetric Photon Counting Channels. IEEE Communications Letters, 2011, 15, 1268-1270. | 4.1 | 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. | 2.5 | 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. | 2.5 | 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. | 31.4 | 71 |