Wasiu O Popoola

List of Publications by Year
in descending order

110	3,014	236925 25	182427 51
papers	citations	h-index	g-index

113	113	113	1776
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	LiFi-Based D2D Communication in Industrial IoT. IEEE Systems Journal, 2023, 17, 1591-1598.	4.6	8
2	Ergodic capacity and error performance of spatial diversity UWOC systems over generalized gamma turbulence channels. Optics Communications, 2022, 505, 127476.	2.1	6
3	An Empirical Comparison of Modulation Schemes in Turbulent Underwater Optical Wireless Communications. Journal of Lightwave Technology, 2022, 40, 2000-2007.	4.6	15
4	Design and verification of SoC for OFDM-based visible light communication transceiver systems and integration with off-the-shelf analog front-end. Optik, 2022, 258, 168867.	2.9	8
5	The BER Performance of the LDPC-Coded MPPM over Turbulence UWOC Channels. Photonics, 2022, 9, 349.	2.0	9
6	WDM Based 10.8 Gbps Visible Light Communication With Probabilistic Shaping. Journal of Lightwave Technology, 2022, 40, 5062-5069.	4.6	10
7	CoMP-JT Scheme for D2D Communication in Industrial LiFi Networks. IEEE Access, 2022, 10, 70760-70768.	4.2	3
8	Subcarrier Intensity Modulation for Turbulent Underwater Optical Wireless Communications. , 2021, , .		0
9	Gbps underwater optical wireless communication in turbulence and random sea surface. , 2021, , .		3
10	Mobility management in multi-tier LiFi networks. Journal of Optical Communications and Networking, 2021, 13, 204.	4.8	12
11	Bias Point Optimisation in LiFi for Capacity Enhancement. Journal of Lightwave Technology, 2021, 39, 5021-5027.	4.6	8
12	Single LED Gbps Visible Light Communication with Probabilistic Shaping. , 2021, , .		4
13	Modelling of Multi-Tier Handover in LiFi Networks. , 2021, , .		3
14	Pilot-Assisted PAPR Reduction in PAM-DMT based Visible Light Communication Systems. , 2021, , .		3
15	Performance of Spatial Diversity DCO-OFDM in a Weak Turbulence Underwater Visible Light Communication Channel. Journal of Lightwave Technology, 2020, 38, 2271-2277.	4.6	31
16	Pairwise Coding for MIMO-OFDM Visible Light Communication. IEEE Transactions on Wireless Communications, 2020, 19, 1210-1220.	9.2	13
17	Implementation of Linearly Pulse Shaped Generalised Frequency Division Multiplexing for Visible Light Communication Systems. IEEE Open Journal of the Communications Society, 2020, 1, 1614-1622.	6.9	6
18	Empirical Study of the Underwater Turbulence Effect on Non-Coherent Light. IEEE Photonics Technology Letters, 2020, 32, 1307-1310.	2.5	17

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19	Pilot-Aided Frame Synchronization in Optical OFDM Systems. Applied Sciences (Switzerland), 2020, 10, 4034.	2.5	6
20	LDPC-Coded CAP with Spatial Diversity for UVLC Systems over Generalized-Gamma Fading Channel. Sensors, 2020, 20, 3378.	3.8	5
21	LEDâ€based indoor positioning system using novel optical pixelation technique. Healthcare Technology Letters, 2019, 6, 76-81.	3.3	3
22	A Study of Spatial and Temporal Dispersion in Turbulent Underwater Optical Wireless Channel. , 2019, , .		9
23	Enhanced Subband Index Carrierless Amplitude and Phase Modulation in Visible Light Communications. Journal of Lightwave Technology, 2019, 37, 5867-5874.	4.6	3
24	Spatial Carrierless Amplitude and Phase Modulation Technique for Visible Light Communication Systems. IEEE Systems Journal, 2019, 13, 2344-2353.	4.6	5
25	Powering the Internet of Things through Light Communication. IEEE Communications Magazine, 2019, 57, 107-113.	6.1	57
26	Experimental Demonstration of Visible Light Communication using White LED, Blue Filter and SoC based Test-Bed. , 2019, , .		4
27	An Overview of Underwater Optical Wireless Channel Modelling Techniques : (Invited Paper). , 2019, , .		8
28	OFDM Systems Design Using Harmonic Wavelets. , 2019, , .		1
29	Optical Boundaries for LED-Based Indoor Positioning System. Computation, 2019, 7, 7.	2.0	6
30	MIMO Techniques for Carrierless Amplitude and Phase Modulation in Visible Light Communication. IEEE Communications Letters, 2018, 22, 974-977.	4.1	13
31	10-Gb/s Transmission Over 10-m SI-POF With <inline-formula> <tex-math notation="LaTeX">${M}$ </tex-math> </inline-formula>-PAM and Multilayer Perceptron Equalizer. IEEE Photonics Technology Letters, 2018, 30, 911-914.	2.5	6
32	Performance Comparison of Equalization Techniques for SI-POF Multi-Gigabit Communication With PAM- M and Device Non-Linearities. Journal of Lightwave Technology, 2018, 36, 2301-2308.	4.6	17
33	Impact of Timing Offset on Optical Spatial Pulse Position Modulation. , 2018, , .		0
34	Performance Analysis of Optical Spatial Modulation in Atmospheric Turbulence Channel â€. Photonics, 2018, 5, 53.	2.0	2
35	Optical Wireless Underwater Channel Modelling in the Presence of Turbulence. , 2018, , .		9
36	On the Implementation of Carrierless Amplitude and Phase Modulation in Visible Light Communication. IEEE Access, 2018, 6, 60532-60546.	4.2	26

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37	Understanding LiFi Effect on LED Light Quality. , 2018, , .		3
38	Experimental Demonstration of Subband Index Techniques for <inline-formula> <tex-math notation="LaTeX">m </tex-math> </inline-formula>-CAP in Short-Range SI-POF Links. IEEE Photonics Technology Letters, 2018, 30, 2155-2158.	2.5	5
39	Performance Comparison of MIMO CAP Receivers in Visible Light Communication. , 2018, , .		1
40	SI-POF Transmission with OFDM and Sub-carrier Pairwise Coding. , 2018, , .		3
41	10-Gb/s Transmission Over 10-m SI-POF with M-PAM and Multilayer Perceptron Equalizer. , 2018, , .		1
42	PAPR reduction of wavelet-OFDM systems using pilot symbols. , 2018, , .		9
43	A Study of Non-Orthogonal Multiple Access in Underwater Visible Light Communication Systems. , 2018, , .		19
44	Performance of Optical Spatial Modulation in Indoor Multipath Channel. IEEE Transactions on Wireless Communications, 2018, 17, 6042-6052.	9.2	18
45	SI-POF Transmission with CAP Modulation and Split-Complex MLP Equalizer. , 2018, , .		3
46	Generalised Spatial Carrierless Amplitude and Phase Modulation in Visible Light Communication. , 2018, , .		5
47	Subband Index Carrierless Amplitude and Phase Modulation for Optical Communications. Journal of Lightwave Technology, 2018, 36, 4190-4197.	4.6	14
48	Hybrid polymer optical fibre and visible light communication link for in-home network. , 2017, , .		5
49	On PAPR Reduction in Pilot-Assisted Optical OFDM Communication Systems. IEEE Access, 2017, 5, 8916-8929.	4.2	18
50	Analysis of PAPR in optical OFDM systems with grouped LEDs. Optik, 2017, 151, 48-54.	2.9	0
51	Design of improved IR protocol for LED indoor positioning system. , 2017, , .		5
52	Joint equalization and synchronization for carrierless amplitude and phase modulation in visible light communication. , 2017, , .		6
53	Effect of Synchronization Error on Optical Spatial Modulation. IEEE Transactions on Communications, 2017, 65, 5362-5374.	7.8	12
54	Synchronization of carrierless amplitude and phase modulation in visible light communication. , 2017, , .		5

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55	OFDM-PWM scheme for visible light communications. Optics Communications, 2017, 385, 213-218.	2.1	21
56	Hybrid POF/VLC link with M-PAM and MLP equaliser. , 2017, , .		8
57	A study of the impact of VLC on the quality of lighting and display â€“ EPSRC. Impact, 2017, 2017, 78-80.	0.1	0
58	Of old habits and new ideas. Physics World, 2017, 30, 45-46.	0.0	0
59	Multi-layer perceptron as equalisers for multilevel pulse amplitude modulation scheme in SI-POF. , 2016, , .		1
60	Generalized Spatial Pulse Position Modulation for Optical Wireless Communications. , 2016, , .		5
61	Impact of timing jitter on the performance of carrier amplitude and phase modulation. , 2016, , .		5
62	Optimization of duty cycles for LED based indoor positioning system. , 2016, , .		2
63	Enhancing the error performance of optical SSK under correlated channel condition. , 2016, , .		4
64	Impact of VLC on Light Emission Quality of White LEDs. Journal of Lightwave Technology, 2016, 34, 2526-2532.	4.6	41
65	On spatial pulse position modulation for optical wireless communications. , 2016, , .		2
66	Pilot-assisted PAPR reduction technique for O-OFDM using multiple LEDs in VLC systems. , 2016, , .		12
67	PAPR reduction in optical OFDM with grouped LEDs. , 2016, , .		1
68	On visible light communication and quality of light emitted from illumination LEDs. , 2016, , .		2
69	Performance Evaluation of Non-Orthogonal Multiple Access in Visible Light Communication. IEEE Transactions on Communications, 2016, 64, 5162-5175.	7.8	281
70	Indoor localization based on multiple LEDs position estimation. , 2016, , .		8
71	Diversity for Mitigating Channel Effects. Signals and Communication Technology, 2016, , 431-450.	0.5	2
72	Relaying in optical wireless communication. , 2016, , 429-463.		0

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73	Performance Evaluation of Pilot-Assisted PAPR Reduction Technique in Optical OFDM Systems. IEEE Photonics Technology Letters, 2015, 27, 1088-1091.	2.5	25
74	Experimental verification of an all-optical dual-hop 10â€‰â€‰Gbit/s free-space optics link under turbulence regimes. Optics Letters, 2015, 40, 391.	3.3	38
75	Wavelength-Multiplexed Polymer LEDs: Towards 55 Mb/s Organic Visible Light Communications. IEEE Journal on Selected Areas in Communications, 2015, 33, 1819-1828.	14.0	51
76	A Multi-CAP Visible-Light Communications System With 4.85-b/s/Hz Spectral Efficiency. IEEE Journal on Selected Areas in Communications, 2015, 33, 1771-1779.	14.0	85
77	Multi-band carrier-less amplitude and phase modulation for bandlimited visible light communications systems. IEEE Wireless Communications, 2015, 22, 46-53.	9.0	68
78	Optimising OFDM based visible light communication for high throughput and reduced PAPR. , 2015, , .		15
79	Performance of quadrature amplitude modulation orthogonal frequency division multiplexingâ€based free space optical links with nonâ€linear clipping effect over gammaâ€“gamma modelled turbulence channels. IET Optoelectronics, 2015, 9, 269-274.	3.3	11
80	Mitigating nonlinearities under average power constraint in visible light communication. , 2014, , .		1
81	10â€‰â€‰Mb/s visible light transmission system using a polymer light-emitting diode with orthogonal frequency division multiplexing. Optics Letters, 2014, 39, 3876.	3.3	39
82	Experimental characterization and mitigation of turbulence induced signal fades within an ad hoc FSO network. Optics Express, 2014, 22, 3208.	3.4	44
83	Activity-aware clustering algorithm for wireless sensor networks. , 2014, , .		4
84	A 10 Mb/s visible light communication system using a low bandwidth polymer light-emitting diode. , 2014, , .		10
85	Visible Light Communications: 170 Mb/s Using an Artificial Neural Network Equalizer in a Low Bandwidth White Light Configuration. Journal of Lightwave Technology, 2014, 32, 1807-1813.	4.6	109
86	Pilot-Assisted PAPR Reduction Technique for Optical OFDM Communication Systems. Journal of Lightwave Technology, 2014, 32, 1374-1382.	4.6	143
87	Demonstration of the Merit and Limitation of Generalised Space Shift Keying for Indoor Visible Light Communications. Journal of Lightwave Technology, 2014, 32, 1960-1965.	4.6	91
88	Pilot symbol utilization for reducing peak-to-average power ratio in optical OFDM. , 2014, , .		4
89	A 20-Mb/s VLC Link With a Polymer LED and a Multilayer Perceptron Equalizer. IEEE Photonics Technology Letters, 2014, 26, 1975-1978.	2.5	25
90	Wavelet-Neural Network VLC Receiver in the Presence of Artificial Light Interference. IEEE Photonics Technology Letters, 2013, 25, 1424-1427.	2.5	14

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91	Error Performance of Generalised Space Shift Keying for Indoor Visible Light Communications. IEEE Transactions on Communications, 2013, 61, 1968-1976.	7.8	106
92	Merits and limitations of spatial modulation for optical wireless communications. , 2013, , .		10
93	Generalised space shift keying for visible light communications. , 2012, , .		21
94	Error performance of terrestrial free space optical links with subcarrier time diversity. IET Communications, 2012, 6, 499.	2.2	26
95	Coherent Heterodyne Multilevel Polarization Shift Keying With Spatial Diversity in a Free-Space Optical Turbulence Channel. Journal of Lightwave Technology, 2012, 30, 2689-2695.	4.6	64
96	Experimental Results on the Performance of Optical Spatial Modulation Systems. , 2012, , .		12
97	Experimental demonstration of polarisation shift keying in the free space optical turbulence channel. , 2012, , .		8
98	Spatial Pulse Position Modulation for Optical Communications. Journal of Lightwave Technology, 2012, 30, 2948-2954.	4.6	137
99	Coherent optical binary polarisation shift keying heterodyne system in the free-space optical turbulence channel. IET Microwaves, Antennas and Propagation, 2011, 5, 1031.	1.4	16
100	Scintillation effect on intensity modulated laser communication systemsâ€"a laboratory demonstration. Optics and Laser Technology, 2010, 42, 682-692.	4.6	59
101	Analysis and evaluation of optimum wavelengths for free-space optical transceivers. , 2010, , .		30
102	Performance of BPSK Subcarrier Intensity Modulation Free-Space Optical Communications using a Log-normal Atmospheric Turbulence Model. , 2010, , .		29
103	BPSK Subcarrier Intensity Modulated Free-Space Optical Communications in Atmospheric Turbulence. Journal of Lightwave Technology, 2009, 27, 967-973.	4.6	455
104	BER and Outage Probability of DPSK Subcarrier Intensity Modulated Free Space Optics in Fully Developed Speckle. Journal of Communications, 2009, 4, .	1.6	28
105	Free-space optical communication employing subcarrier modulation and spatial diversity in atmospheric turbulence channel. IET Optoelectronics, 2008, 2, 16-23.	3.3	183
106	BER performance of DPSK subcarrier modulated free space optics in fully developed speckle. , 2008, , .		11
107	Performance of sub-carrier modulated Free-Space Optical communication link in negative exponential atmospheric turbulence environment. International Journal of Autonomous and Adaptive Communications Systems, 2008, 1, 342.	0.3	60
108	A synopsis of modulation techniques for wireless infrared communication. , 2007, , .		18

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109	Free-Space Optical Communication Using Subearrier Modulation in Gamma-Gamma Atmospheric Turbulence. , 2007, , .		41
110	Spatial Modulation â€“ A Low Complexity Modulation Technique for Visible Light Communications. , 0, , .		3