

Wasiu O Popoola

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3810419/publications.pdf>

Version: 2024-02-01

110
papers

3,014
citations

236925

25
h-index

182427

51
g-index

113
all docs

113
docs citations

113
times ranked

1776
citing authors

#	ARTICLE	IF	CITATIONS
1	BPSK Subcarrier Intensity Modulated Free-Space Optical Communications in Atmospheric Turbulence. Journal of Lightwave Technology, 2009, 27, 967-973.	4.6	455
2	Performance Evaluation of Non-Orthogonal Multiple Access in Visible Light Communication. IEEE Transactions on Communications, 2016, 64, 5162-5175.	7.8	281
3	Free-space optical communication employing subcarrier modulation and spatial diversity in atmospheric turbulence channel. IET Optoelectronics, 2008, 2, 16-23.	3.3	183
4	Pilot-Assisted PAPR Reduction Technique for Optical OFDM Communication Systems. Journal of Lightwave Technology, 2014, 32, 1374-1382.	4.6	143
5	Spatial Pulse Position Modulation for Optical Communications. Journal of Lightwave Technology, 2012, 30, 2948-2954.	4.6	137
6	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
7	Error Performance of Generalised Space Shift Keying for Indoor Visible Light Communications. IEEE Transactions on Communications, 2013, 61, 1968-1976.	7.8	106
8	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
9	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
10	Multi-band carrier-less amplitude and phase modulation for bandlimited visible light communications systems. IEEE Wireless Communications, 2015, 22, 46-53.	9.0	68
11	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
12	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
13	Scintillation effect on intensity modulated laser communication systems—a laboratory demonstration. Optics and Laser Technology, 2010, 42, 682-692.	4.6	59
14	Powering the Internet of Things through Light Communication. IEEE Communications Magazine, 2019, 57, 107-113.	6.1	57
15	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
16	Experimental characterization and mitigation of turbulence induced signal fades within an ad hoc FSO network. Optics Express, 2014, 22, 3208.	3.4	44
17	Free-Space Optical Communication Using Subcarrier Modulation in Gamma-Gamma Atmospheric Turbulence. , 2007, , .		41
18	Impact of VLC on Light Emission Quality of White LEDs. Journal of Lightwave Technology, 2016, 34, 2526-2532.	4.6	41

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Analysis and evaluation of optimum wavelengths for free-space optical transceivers. , 2010, , .		30
23	Performance of BPSK Subcarrier Intensity Modulation Free-Space Optical Communications using a Log-normal Atmospheric Turbulence Model. , 2010, , .		29
24	BER and Outage Probability of DPSK Subcarrier Intensity Modulated Free Space Optics in Fully Developed Speckle. Journal of Communications, 2009, 4, .	1.6	28
25	Error performance of terrestrial free space optical links with subcarrier time diversity. IET Communications, 2012, 6, 499.	2.2	26
26	On the Implementation of Carrierless Amplitude and Phase Modulation in Visible Light Communication. IEEE Access, 2018, 6, 60532-60546.	4.2	26
27	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
28	Performance Evaluation of Pilot-Assisted PAPR Reduction Technique in Optical OFDM Systems. IEEE Photonics Technology Letters, 2015, 27, 1088-1091.	2.5	25
29	Generalised space shift keying for visible light communications. , 2012, , .		21
30	OFDM-PWM scheme for visible light communications. Optics Communications, 2017, 385, 213-218.	2.1	21
31	A Study of Non-Orthogonal Multiple Access in Underwater Visible Light Communication Systems. , 2018, , .		19
32	A synopsis of modulation techniques for wireless infrared communication. , 2007, , .		18
33	On PAPR Reduction in Pilot-Assisted Optical OFDM Communication Systems. IEEE Access, 2017, 5, 8916-8929.	4.2	18
34	Performance of Optical Spatial Modulation in Indoor Multipath Channel. IEEE Transactions on Wireless Communications, 2018, 17, 6042-6052.	9.2	18
35	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
36	Empirical Study of the Underwater Turbulence Effect on Non-Coherent Light. IEEE Photonics Technology Letters, 2020, 32, 1307-1310.	2.5	17

#	ARTICLE	IF	CITATIONS
37	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
38	Optimising OFDM based visible light communication for high throughput and reduced PAPR. , 2015, , .		15
39	An Empirical Comparison of Modulation Schemes in Turbulent Underwater Optical Wireless Communications. Journal of Lightwave Technology, 2022, 40, 2000-2007.	4.6	15
40	Wavelet-Neural Network VLC Receiver in the Presence of Artificial Light Interference. IEEE Photonics Technology Letters, 2013, 25, 1424-1427.	2.5	14
41	Subband Index Carrierless Amplitude and Phase Modulation for Optical Communications. Journal of Lightwave Technology, 2018, 36, 4190-4197.	4.6	14
42	MIMO Techniques for Carrierless Amplitude and Phase Modulation in Visible Light Communication. IEEE Communications Letters, 2018, 22, 974-977.	4.1	13
43	Pairwise Coding for MIMO-OFDM Visible Light Communication. IEEE Transactions on Wireless Communications, 2020, 19, 1210-1220.	9.2	13
44	Experimental Results on the Performance of Optical Spatial Modulation Systems. , 2012, , .		12
45	Pilot-assisted PAPR reduction technique for O-OFDM using multiple LEDs in VLC systems. , 2016, , .		12
46	Effect of Synchronization Error on Optical Spatial Modulation. IEEE Transactions on Communications, 2017, 65, 5362-5374.	7.8	12
47	Mobility management in multi-tier LiFi networks. Journal of Optical Communications and Networking, 2021, 13, 204.	4.8	12
48	BER performance of DPSK subcarrier modulated free space optics in fully developed speckle. , 2008, , .		11
49	Performance of quadrature amplitude modulation orthogonal frequency division multiplexing-based free space optical links with non-linear clipping effect over gamma-gamma modelled turbulence channels. IET Optoelectronics, 2015, 9, 269-274.	3.3	11
50	Merits and limitations of spatial modulation for optical wireless communications. , 2013, , .		10
51	A 10 Mb/s visible light communication system using a low bandwidth polymer light-emitting diode. , 2014, , .		10
52	WDM Based 10.8 Gbps Visible Light Communication With Probabilistic Shaping. Journal of Lightwave Technology, 2022, 40, 5062-5069.	4.6	10
53	Optical Wireless Underwater Channel Modelling in the Presence of Turbulence. , 2018, , .		9
54	PAPR reduction of wavelet-OFDM systems using pilot symbols. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
55	A Study of Spatial and Temporal Dispersion in Turbulent Underwater Optical Wireless Channel. , 2019, , .		9
56	The BER Performance of the LDPC-Coded MPPM over Turbulence UWOC Channels. Photonics, 2022, 9, 349.	2.0	9
57	Experimental demonstration of polarisation shift keying in the free space optical turbulence channel. , 2012, , .		8
58	Indoor localization based on multiple LEDs position estimation. , 2016, , .		8
59	Hybrid POF/VLC link with M-PAM and MLP equaliser. , 2017, , .		8
60	An Overview of Underwater Optical Wireless Channel Modelling Techniques : (Invited Paper). , 2019, , .		8
61	Bias Point Optimisation in LiFi for Capacity Enhancement. Journal of Lightwave Technology, 2021, 39, 5021-5027.	4.6	8
62	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
63	LiFi-Based D2D Communication in Industrial IoT. IEEE Systems Journal, 2023, 17, 1591-1598.	4.6	8
64	Joint equalization and synchronization for carrierless amplitude and phase modulation in visible light communication. , 2017, , .		6
65	10-Gb/s Transmission Over 10-m SI-POF With M^2 -PAM and Multilayer Perceptron Equalizer. IEEE Photonics Technology Letters, 2018, 30, 911-914.	2.5	6
66	Optical Boundaries for LED-Based Indoor Positioning System. Computation, 2019, 7, 7.	2.0	6
67	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
68	Pilot-Aided Frame Synchronization in Optical OFDM Systems. Applied Sciences (Switzerland), 2020, 10, 4034.	2.5	6
69	Ergodic capacity and error performance of spatial diversity UWOC systems over generalized gamma turbulence channels. Optics Communications, 2022, 505, 127476.	2.1	6
70	Generalized Spatial Pulse Position Modulation for Optical Wireless Communications. , 2016, , .		5
71	Impact of timing jitter on the performance of carrier amplitude and phase modulation. , 2016, , .		5
72	Hybrid polymer optical fibre and visible light communication link for in-home network. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
73	Design of improved IR protocol for LED indoor positioning system. , 2017, , .		5
74	Synchronization of carrierless amplitude and phase modulation in visible light communication. , 2017, , .		5
75	Experimental Demonstration of Subband Index Techniques for γ -CAP in Short-Range SI-POF Links. IEEE Photonics Technology Letters, 2018, 30, 2155-2158.	2.5	5
76	Generalised Spatial Carrierless Amplitude and Phase Modulation in Visible Light Communication. , 2018, , .		5
77	Spatial Carrierless Amplitude and Phase Modulation Technique for Visible Light Communication Systems. IEEE Systems Journal, 2019, 13, 2344-2353.	4.6	5
78	LDPC-Coded CAP with Spatial Diversity for UVLC Systems over Generalized-Gamma Fading Channel. Sensors, 2020, 20, 3378.	3.8	5
79	Activity-aware clustering algorithm for wireless sensor networks. , 2014, , .		4
80	Pilot symbol utilization for reducing peak-to-average power ratio in optical OFDM. , 2014, , .		4
81	Enhancing the error performance of optical SSK under correlated channel condition. , 2016, , .		4
82	Experimental Demonstration of Visible Light Communication using White LED, Blue Filter and SoC based Test-Bed. , 2019, , .		4
83	Single LED Gbps Visible Light Communication with Probabilistic Shaping. , 2021, , .		4
84	Spatial Modulation – A Low Complexity Modulation Technique for Visible Light Communications. , 0, , .		3
85	Understanding LiFi Effect on LED Light Quality. , 2018, , .		3
86	SI-POF Transmission with OFDM and Sub-carrier Pairwise Coding. , 2018, , .		3
87	SI-POF Transmission with CAP Modulation and Split-Complex MLP Equalizer. , 2018, , .		3
88	LED-based indoor positioning system using novel optical pixelation technique. Healthcare Technology Letters, 2019, 6, 76-81.	3.3	3
89	Enhanced Subband Index Carrierless Amplitude and Phase Modulation in Visible Light Communications. Journal of Lightwave Technology, 2019, 37, 5867-5874.	4.6	3
90	Gbps underwater optical wireless communication in turbulence and random sea surface. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
91	Modelling of Multi-Tier Handover in LiFi Networks. , 2021, , .		3
92	Pilot-Assisted PAPR Reduction in PAM-DMT based Visible Light Communication Systems. , 2021, , .		3
93	CoMP-JT Scheme for D2D Communication in Industrial LiFi Networks. IEEE Access, 2022, 10, 70760-70768.	4.2	3
94	Optimization of duty cycles for LED based indoor positioning system. , 2016, , .		2
95	On spatial pulse position modulation for optical wireless communications. , 2016, , .		2
96	On visible light communication and quality of light emitted from illumination LEDs. , 2016, , .		2
97	Diversity for Mitigating Channel Effects. Signals and Communication Technology, 2016, , 431-450.	0.5	2
98	Performance Analysis of Optical Spatial Modulation in Atmospheric Turbulence Channel â€. Photonics, 2018, 5, 53.	2.0	2
99	Mitigating nonlinearities under average power constraint in visible light communication. , 2014, , .		1
100	Multi-layer perceptron as equalisers for multilevel pulse amplitude modulation scheme in SI-POF. , 2016, , .		1
101	PAPR reduction in optical OFDM with grouped LEDs. , 2016, , .		1
102	Performance Comparison of MIMO CAP Receivers in Visible Light Communication. , 2018, , .		1
103	10-Gb/s Transmission Over 10-m SI-POF with M-PAM and Multilayer Perceptron Equalizer. , 2018, , .		1
104	OFDM Systems Design Using Harmonic Wavelets. , 2019, , .		1
105	Analysis of PAPR in optical OFDM systems with grouped LEDs. Optik, 2017, 151, 48-54.	2.9	0
106	A study of the impact of VLC on the quality of lighting and display â€“ EPSRC. Impact, 2017, 2017, 78-80.	0.1	0
107	Of old habits and new ideas. Physics World, 2017, 30, 45-46.	0.0	0
108	Impact of Timing Offset on Optical Spatial Pulse Position Modulation. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
109	Subcarrier Intensity Modulation for Turbulent Underwater Optical Wireless Communications. , 2021, ,		0
110	Relaying in optical wireless communication. , 2016, , 429-463.		0