Survey on Free Space Optical Communication: A Comm

Citation Report

#	Article	IF	Citations
1	Practical Switching-Based Hybrid FSO/RF Transmission and Its Performance Analysis. IEEE Photonics Journal, 2014, 6, 1-13.	2.0	159
2	Resilient topology design for free space optical cellular backhaul networking. , 2014, , .		10
3	Optical wireless communications &#x2014; An emerging technology. , 2014, , .		100
4	Integrated FSO/PON for Broadband Access Networks: A Comprehensive Protocol Stack Design and Analysis. , 2014, , .		0
5	Integrated FSO/PON for Broadband Access Networks: A Comprehensive Protocol Stack Design and Analysis. , 2015, , .		5
6	Outage analysis of q-duplex RF/FSO relaying. , 2015, , .		3
7	Optical intensity modulation direct detection versus heterodyne detection: A high-SNR capacity comparison. , 2015, , .		6
8	Performance analysis of all-optical amplify-and-forward FSO relaying over atmospheric turbulence. , 2015, , .		4
9	Non-reciprocity compensation correction and antenna selection for optical large MIMO system. Optoelectronics Letters, 2015, 11, 461-465.	0.8	0
10	On the performance of dual-hop FSO/RF systems. , 2015, , .		10
11	Techniques to mitigate fading effect in FSO using OFDM. , 2015, , .		2
12	SEP analysis of FSO system employing SIM-MPSK with noisy phase reference. , 2015, , .		4
13	Information theoretic analysis of a dual-hop fixed gain AF based mixed RF-FSO system. , 2015, , .		15
14	A 20-m/40-Gb/s 1550-nm DFB LD-Based FSO Link. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	20
15	CSOWC: A unified classification framework for standardizing optical wireless communications. , 2015, , .		3
16	On the Capacity of the 2-User IM-DD Optical Broadcast Channel. , 2015, , .		5
17	Information theoretic analysis of DF based dual-hop mixed RF-FSO communication systems. , 2015, , .		9
18	Free-space optical communications with peak and average constraints: High SNR capacity approximation. , 2015, , .		1

#	Article	IF	Citations
19	Impact of correlation on outage performance of FSO system with switch-and-stay diversity receiver. , 2015, , .		3
20	Analysis of earth‐to‐satellite free‐space optical link performance in the presence of turbulence, beam‐wander induced pointing error and weather conditions for different intensity modulation schemes. IET Communications, 2015, 9, 2253-2258.	2.2	55
21	Experimental demonstration of LED-based vehicle to vehicle communication under atmospheric turbulence. , 2015, , .		18
22	Performance analysis of a DF based dual hop mixed RF-FSO system with a direct RF link. , 2015, , .		19
23	Optical spatial modulation with polarization shift keying over atmospheric turbulence channels. , 2015, , .		2
24	Mixed RF and Hybrid RF/FSO Relaying. , 2015, , .		9
25	Wave-optics simulation of the channel fading in modulating retro-reflector free-space optical link. , 2015, , .		5
26	Effect of partial coherence on MISO FSO systems. , 2015, , .		1
27	Outage capacity and throughput analysis of multiuser FSO systems. , 2015, , .		14
28	Performance analysis of mixed RF/FSO systems. , 2015, , .		7
29	A Multi-Element VLC Architecture for High Spatial Reuse. , 2015, , .		5
30	10 Gbps all-optical relay-assisted FSO system over a turbulence channel. , 2015, , .		8
31	Optimization of Free Space Optical Wireless Network for Cellular Backhauling. IEEE Journal on Selected Areas in Communications, 2015, 33, 1841-1854.	14.0	51
32	Inter-aperture correlation in MIMO free space optical systems. Optics Communications, 2015, 353, 139-146.	2.1	9
33	On the Performance of Multihop Heterodyne FSO Systems With Pointing Errors. IEEE Photonics Journal, 2015, 7, 1-10.	2.0	29
34	LED Based Indoor Visible Light Communications: State of the Art. IEEE Communications Surveys and Tutorials, 2015, 17, 1649-1678.	39.4	683
35	Sensitivity modeling of binary optical receivers. Applied Optics, 2015, 54, 8254.	2.1	13
36	Ergodic capacity analysis for DF strategies in cooperative FSO systems. Optics Express, 2015, 23, 21565.	3.4	5

#	ARTICLE	IF	CITATIONS
37	Serial, parallel or hybrid: Towards a highly reliable transmission in RF/FSO network systems. , 2015, , .		3
38	On the capacity of MISO FSO systems over gamma-gamma and misalignment fading channels. Optics Express, 2015, 23, 22371.	3.4	26
39	Novel space-time trellis codes for free-space optical communications using transmit laser selection. Optics Express, 2015, 23, 24195.	3.4	13
40	Cost-effective hybrid RF/FSO backhaul solution for next generation wireless systems. IEEE Wireless Communications, 2015, 22, 98-104.	9.0	103
41	Cost-effective backhaul design using hybrid radio/free-space optical technology. , 2015, , .		9
42	Mixed RF/FSO Relaying With Outdated Channel State Information. IEEE Journal on Selected Areas in Communications, 2015, 33, 1935-1948.	14.0	108
43	Performance of a Free-Space-Optical Relay-Assisted Hybrid RF/FSO System in Generalized <inline-formula> <tex-math notation="LaTeX">M</tex-math> </inline-formula>-Distributed Channels. IEEE Photonics Journal, 2015, 7, 1-19.	2.0	64
44	A High-Speed Camera-Based Approach to Massive Sound Sensing With Optical Wireless Acoustic Sensors. IEEE Transactions on Computational Imaging, 2015, 1, 126-139.	4.4	10
45	Investigation of moderate-to-strong turbulence effects on free space optics — A laboratory demonstration. , 2015, , .		9
46	Visible Light Communication, Networking, and Sensing: A Survey, Potential and Challenges. IEEE Communications Surveys and Tutorials, 2015, 17, 2047-2077.	39.4	1,099
47	Irradiance Scintillation Index for a Gaussian Beam Based on the Generalized Modified Atmospheric Spectrum with Aperture Averaged. International Journal of Optics, 2016, 2016, 1-8.	1.4	3
48	Novel approximation of misalignment fading modeled by Beckmann distribution on free-space optical links. Optics Express, 2016, 24, 22635.	3.4	119
49	20-meter underwater wireless optical communication link with 15 Gbps data rate. Optics Express, 2016, 24, 25502.	3.4	234
50	Optimal space signalling for intensity modulated MIMO optical wireless communications. , 2016, , .		2
51	Performance analysis of relay-aided free-space optical communication system over gamma-gamma fading channels with pointing errors. Optoelectronics Letters, 2016, 12, 294-298.	0.8	3
52	An Experimental Study of FSO Link Performance in Desert Environment. IEEE Communications Letters, 2016, 20, 1888-1891.	4.1	61
53	Integration of variable-rate OWC with OFDM-PON for hybrid optical access based on adaptive envelope modulation. Optics Communications, 2016, 381, 10-17.	2.1	13
54	Performance improvement of terrestrial free-space optical communications by mitigating the focal-spot wandering. Journal of Modern Optics, 2016, 63, 2339-2347.	1.3	26

#	ARTICLE	IF	CITATIONS
55	Optical wireless communications for airport surface operations: Opportunities and challenges. , 2016, , .		4
56	Capacity bounds for parallel IM-DD optical wireless channels. , 2016, , .		9
57	Polarization shift keying with pulse position modulation over atmospheric turbulence channels. , 2016, , .		3
58	Formulation of path selection by means of maximum flow and minimum delay on a Free Space Optical topology. , 2016, , .		0
59	System analysis for optical inter-satellite link with varied parameter and pre-amplification. , 2016, , .		6
60	Selection of path and wavelength for setting up a free space optical link. , 2016, , .		1
61	Outage analysis of a mixed Rayleigh and Exponentiated Weibull Dual-Hop FSO communication system. , 2016, , .		1
62	Experimental optimization of the hybrid RoMMF-FSO system using mode filtering techniques. , 2016, , .		0
63	Research on free-space optical communication based on time-division multiplexing. Proceedings of SPIE, 2016, , .	0.8	0
64	Capacity analysis of amplify-and-forward based dual-hop free space optical communication system with backup RF link. , 2016, , .		3
65	Relay selection for full-duplex FSO relays over turbulent channels. , 2016, , .		5
66	Performance analysis of gigabit-capable mobile backhaul networks exploiting TWDM-PON and FSO technologies. , 2016, , .		8
67	TCP over free-space optical links with ARQ and AMC: A cross-layer performance analysis. , 2016, , .		4
68	ASK and PPM modulation based FSO system under varying weather conditions. , 2016, , .		9
69	Fair Resource Allocation Schemes for Cooperative Dynamic Free-Space Optical Networks. Journal of Optical Communications and Networking, 2016, 8, 822.	4.8	12
70	720-Mbps 64-QAM-OFDM SCM transmission over RGB-LED-based FSO communication system. , 2016, , .		1
71	Downlink resource allocation for multichannel TDMA visible light communications. , 2016, , .		17
72	An efficient fuzzy map rule based FSO communication through turbulent atmosphere. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	Effect of aperture averaging and spatial diversity on capacity of optical wireless communication systems over lognormal channels. Radioelectronics and Communications Systems, 2016, 59, 527-535.	0.5	6
74	Effect of Rain & Haze on Availability of Terrestrial Free Space Optical Link under Tropical Weather Conditions. , 2016, , .		1
75	A 50 m/40 Gbps 680-nm VCSEL-based FSO communication. , 2016, , .		2
76	Prospects of differential optical receiver with ambient light compensation in vehicular visible light communication. , 2016, , .		5
77	Acceleration feedback control (AFC) enhanced by disturbance observation and compensation (DOC) for high precision tracking in telescope systems. Research in Astronomy and Astrophysics, 2016, 16, 007.	1.7	22
78	Optimal Design of Linear Space Code for MIMO Optical Wireless Communications. IEEE Photonics Journal, 2016, 8, 1-12.	2.0	2
79	Dual Purpose Antenna for Hybrid Free Space Optics/RF Communication Systems. Journal of Lightwave Technology, 2016, 34, 3432-3439.	4.6	21
80	Link Allocation for Multiuser Systems With Hybrid RF/FSO Backhaul: Delay-Limited and Delay-Tolerant Designs. IEEE Transactions on Wireless Communications, 2016, 15, 3281-3295.	9.2	66
81	Diversity-optimal power loading for intensity modulated MIMO optical wireless communications. Optics Express, 2016, 24, 7905.	3.4	2
82	Impact of nonzero boresight pointing error on ergodic capacity of MIMO FSO communication systems. Optics Express, 2016, 24, 3513.	3.4	57
83	Performance analysis of free space optical communication in open€atmospheric turbulence conditions with beam wandering compensation control. IET Communications, 2016, 10, 1096-1103.	2.2	41
84	Underwater Optical Wireless Communication. IEEE Access, 2016, 4, 1518-1547.	4.2	874
85	Aperture averaging in multiple-input single-output free-space optical systems using partially coherent radial array beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1041.	1.5	23
86	Error performance study of MPPM optical communication systems with finite extinction ratios. , 2016, , .		1
87	Feasibility study of free-space optical communication for South Africa. Optical Engineering, 2016, 55, 056108.	1.0	17
88	Bit error rate analysis of MISO FSO systems. Waves in Random and Complex Media, 2016, 26, 642-649.	2.7	5
90	Aperture averaging and receiver diversity for FSO downlink in presence of atmospheric turbulence and weather conditions for OOK, M-PPM and M-DPPM schemes. Optical and Quantum Electronics, 2016, 48, 1.	3.3	18
91	Unequal error protection for MPOLSK based MIMO communication over atmospheric turbulence channels. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
92	Error performance analysis of optically-preamplified QPSK M-ary PPM systems over atmospheric turbulent channels. , 2016, , .		0
93	Augmented PPM constellation for enhanced two-user FSO transmissions. , 2016, , .		2
94	Golden-light code for optical 2Ã—2 MIMO free space intensity communications. , 2016, , .		1
95	Unequal error protection for MPOLSK based MIMO communication over atmospheric turbulence channels. , 2016, , .		0
96	Resilient backhaul network design using hybrid radio/free-space optical technology. , 2016, , .		6
97	Capacity bounds for the 2-user Gaussian IM-DD optical multiple-access channel. , 2016, , .		2
98	A 100 m/320 Gbps SDM FSO link with a doublet lens scheme. Laser Physics Letters, 2016, 13, 075201.	1.4	11
99	Historical Information Aware Unequal Error Protection of Scalable HEVC/H.265 Streaming Over Free Space Optical Channels. IEEE Access, 2016, 4, 5659-5672.	4.2	16
100	Visible light communication based optical link for data transmission in Wireless Sensor Networks. , 2016, , .		5
101	OptoRadio: a method of wireless communication using orthogonal M-ary PSK (OMPSK) modulation. , 2016, , .		1
102	Effects of pointing errors and channel fading on the performance of freeâ€space opticallyâ€preamplified PPM systems. International Journal of Communication Systems, 2016, 29, 2313-2324.	2.5	0
103	Cooperative mobile video transmission for traffic surveillance in smart cities. Computers and Electrical Engineering, 2016, 54, 16-25.	4.8	7
104	Mixed RF/FSO Relaying Systems. Signals and Communication Technology, 2016, , 387-407.	0.5	5
105	Availability analysis of free-space-optical links based on rain rate and visibility statistics from tropical a climate. Optik, 2016, 127, 10316-10321.	2.9	20
106	Performance enhancement of free space optical satellite uplink with transmitter spatial diversity technique. Optical and Quantum Electronics, 2016, 48, 1.	3.3	4
107	An Overview of Optical Wireless Communications. Signals and Communication Technology, 2016, , 1-23.	0.5	10
108	Performance Analysis of FSO Communications Under Correlated Fading Conditions. Signals and Communication Technology, 2016, , 209-229.	0.5	1
109	MIMO Free-Space Optical Communication. Signals and Communication Technology, 2016, , 231-253.	0.5	7

#	ARTICLE	IF	CITATIONS
110	On the Resilient Network Design of Free-Space Optical Wireless Network for Cellular Backhauling. Signals and Communication Technology, 2016, , 485-510.	0.5	1
111	FSO for High Capacity Optical Metro and Access Networks. Signals and Communication Technology, 2016, , 511-526.	0.5	2
112	Adaptive relay selection protocol for the parallel hybrid RF/FSO relay channel. , 2016, , .		4
113	Mixed RF/FSO two-way relaying system under generalized FSO channel with pointing error. , 2016, , .		3
114	Outdoor FSO Communications Under Fog: Attenuation Modeling and Performance Evaluation. IEEE Photonics Journal, 2016, 8, 1-22.	2.0	127
115	High speed broadband communication system for moving trains using Free Space Optics. , 2016, , .		9
116	Free Space Optic and mmWave Communications: Technologies, Challenges and Applications. IEICE Transactions on Communications, 2016, E99.B, 1243-1254.	0.7	28
117	Performance evaluation of satellite-to-earth FSO link in presence of turbulence and weather conditions for different IM schemes. , 2016, , .		2
118	Performance analysis of SIM-DPSK FSO system over lognormal fading with pointing errors. , 2016, , .		15
119	BER analysis of WiMAX on FSO. , 2016, , .		2
120	Information Theoretic Analysis of a Dual-Hop DF Based FSO Communication System. , 2016, , .		2
121	Experimental demonstration of outdoor 2.2 Tbps super-channel FSO transmission system. , 2016, , .		25
122	Optical wireless communication for future broadband access networks. , 2016, , .		17
123	Two-way all-optical AF relaying FSO systems over Malaga (M) channels with pointing errors. , 2016, , .		8
124	Using differential signalling to mitigate pointing errors effect in FSO communication link. , 2016, , .		9
125	Quantized Feedback-Based Differential Signaling for Free-Space Optical Communication System. IEEE Transactions on Communications, 2016, 64, 5176-5188.	7.8	34
126	Effective Capacity of Coherent POLMUX OWC Impaired by Atmospheric Turbulence and Pointing Errors. Journal of Lightwave Technology, 2016, 34, 5007-5022.	4.6	7
127	Fundamental Limits of Parallel Optical Wireless Channels: Capacity Results and Outage Formulation. IEEE Transactions on Communications, 2016, , 1-1.	7.8	53

#	Article	IF	Citations
128	Reducing pointing errors in free-space optical communication links over turbulences with a partially coherent Gaussian beam. , 2016, , .		4
129	Flexible and hybrid bidirectional optical metro networking using adaptive stokes space polarization demultiplexing. , 2016, , .		0
130	Capacity of optical wireless communication system over correlated log-normal channels. , 2016, , .		1
131	A Comparative Analysis of Different Modulation Techniques Based on Subcarrier Intensity Modulation in Free Space Optics Using Log-Normal Turbulence Model. , 2016, , .		1
132	Closed-form error probability of blind detection for free space optical systems. , 2016, , .		3
133	Hybrid Radio/Free-Space Optical Design for Next Generation Backhaul Systems. IEEE Transactions on Communications, 2016, 64, 2563-2577.	7.8	75
134	Deployment of Hybrid FSO/RF Links in Backhaul of Relay-Based Rural Area Cellular Networks: Advantages and Performance Analysis. IEEE Communications Letters, 2016, 20, 1824-1827.	4.1	20
135	Improved wavelength independent empirical model for Fog attenuation in FSO communication systems. , 2016, , .		2
136	A 50-m/320-Gb/s DWDM FSO Communication With Afocal Scheme. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	12
137	Performance study of terrestrial multi-hop OFDM FSO communication systems with pointing errors over turbulence channels. Journal of Modern Optics, 2016, 63, 1403-1413.	1.3	16
138	Polarization Diversity in MIMO Communication Over Atmospheric Turbulence Channels. Journal of Lightwave Technology, 2016, 34, 3981-3992.	4.6	7
139	Wireless Communication in Data Centers: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1572-1595.	39.4	89
140	On the Capacity of the Intensity-Modulation Direct-Detection Optical Broadcast Channel. IEEE Transactions on Wireless Communications, 2016, 15, 3114-3130.	9.2	54
141	Ergodic Capacity Analysis of Decode-and-Forward Relay-Assisted FSO Systems Over Alphaâ€"Mu Fading Channels Considering Pointing Errors. IEEE Photonics Journal, 2016, 8, 1-11.	2.0	25
142	Toward Environmental-Adaptive Visible Light Communications Receivers for Automotive Applications: A Review. IEEE Sensors Journal, 2016, 16, 2803-2811.	4.7	51
143	Cross-Layer Designs and Analysis of Adaptive-Rate Transmission and ARQ for Free-Space Optical Communications. IEEE Photonics Journal, 2016, 8, 1-15.	2.0	21
144	Free-Space Optical Communications: Capacity Bounds, Approximations, and a New Sphere-Packing Perspective. IEEE Transactions on Communications, 2016, 64, 1176-1191.	7.8	128
145	Effects of aperture averaging and beam width on a partially coherent Gaussian beam over free-space optical links with turbulence and pointing errors. Applied Optics, 2016, 55, 1.	2.1	37

#	ARTICLE	IF	CITATIONS
146	On the Optimality of Spatial Repetition Coding for MIMO Optical Wireless Communications. IEEE Communications Letters, 2016, 20, 846-849.	4.1	20
147	A 50-m/40 Gb/s 680-nm VCSEL-Based FSO Communication. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	14
148	MISO Relay-Assisted FSO Systems Over Gamma–Gamma Fading Channels With Pointing Errors. IEEE Photonics Technology Letters, 2016, 28, 229-232.	2.5	21
149	Performance enhancement by aperture averaging in terrestrial and satellite free space optical links. IET Optoelectronics, 2016, 10, 111-117.	3.3	26
150	Offset and Power Optimization for DCO-OFDM in Visible Light Communication Systems. IEEE Transactions on Signal Processing, 2016, 64, 349-363.	5.3	72
151	FSO Detection Using Differential Signaling in Outdoor Correlated-Channels Condition. IEEE Photonics Technology Letters, 2016, 28, 55-58.	2.5	32
152	New challenges in wireless and free space optical communications. Optics and Lasers in Engineering, 2017, 89, 95-108.	3.8	152
153	Investigation and Demonstration of High Speed Full-Optical Hybrid FSO/Fiber Communication System Under Light Sand Storm Condition. IEEE Photonics Journal, 2017, 9, 1-12.	2.0	62
154	Channel characterization and empirical model for ergodic capacity of free-space optical communication link. Optics Communications, 2017, 390, 123-129.	2.1	22
155	Quadratic Extension Field Codes for Free Space Optical Intensity Communications. IEEE Transactions on Communications, 2017, 65, 751-763.	7.8	8
156	A Novel Coherent OCDMA Scheme Over Atmospheric Turbulence Channels. IEEE Photonics Technology Letters, 2017, 29, 427-430.	2.5	9
157	Recent advances in high-capacity free-space optical and radio-frequency communications using orbital angular momentum multiplexing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150439.	3.4	131
158	Outage Performance of Exponentiated Weibull FSO Links Under Generalized Pointing Errors. Journal of Lightwave Technology, 2017, 35, 1605-1613.	4.6	39
159	Impact of Link Parameters and Channel Correlation on the Performance of FSO Systems With the Differential Signaling Technique. Journal of Optical Communications and Networking, 2017, 9, 138.	4.8	26
160	Outage Probability Analysis of FSO Links Over Foggy Channel. IEEE Photonics Journal, 2017, 9, 1-12.	2.0	36
161	A bi-directional free-space optical communication system with MEMS spatial light modulator for aglie data link. , 2017, , .		1
162	A 400 Gbps/100 m free-space optical link. Laser Physics Letters, 2017, 14, 025206.	1.4	8
163	Provisioning Internet Access Using FSO in High-Speed Rail Networks. IEEE Network, 2017, 31, 96-101.	6.9	35

#	ARTICLE	IF	CITATIONS
164	Indoor test of the fog's effect on FSO link. Proceedings of SPIE, 2017, , .	0.8	1
165	An experimental performance evaluation of the hybrid FSO/RF. Proceedings of SPIE, 2017, , .	0.8	3
166	A cost effective 100Gbps hybrid MDM–OCDMA–FSO transmission system under atmospheric turbulences. Optical and Quantum Electronics, 2017, 49, 1.	3.3	76
167	Discrete Input Signaling for MISO Visible Light Communication Channels. , 2017, , .		11
168	Temporal dynamics of frequency-tunable graphene-based plasmonic grating structures for ultra-broadband terahertz communication. Proceedings of SPIE, 2017, , .	0.8	2
169	Performance comparison of various modulation schemes over free space optical (FSO) link employing Gamma–Gamma fading model. Optical and Quantum Electronics, 2017, 49, 1.	3.3	37
170	Unified Performance Analysis for Multiuser Mixed η-μ and κ-Distribution Dual-Hop RF/FSO Systems. IEEE Transactions on Communications, 2017, , 1-1.	7.8	46
171	Optical mobile communications: Principles and challenges. , 2017, , .		9
172	Performance analysis of OOK-based FSO systems in Gamma–Gamma turbulence with imprecise channel models. Optics Communications, 2017, 402, 340-348.	2.1	29
173	Average error performance in Subcarrier PSK FSO links over weak turbulence channels with spatial jitter and phase noise. , 2017, , .		0
174	Network Coding Aided Cooperative Quantum Key Distribution Over Free-Space Optical Channels. IEEE Access, 2017, 5, 12301-12317.	4.2	16
175	PSK OFDM optical wireless communication systems with receiver's diversity over gamma-gamma turbulence channels and spatial jitter. , 2017, , .		3
176	Block error rate estimation for wireless optical communication links over strong turbulence channels with pointing errors. , 2017, , .		1
177	DF relayed FSO communication systems with time dispersion over Gamma Gamma turbulence and misalignment. , 2017, , .		5
178	Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 2681-2703.	39.4	265
179	Adaptation of Mode Filtering Technique in 4G-LTE Hybrid RoMMF-FSO for Last-Mile Access Network. Journal of Lightwave Technology, 2017, 35, 3758-3764.	4.6	16
180	Average BER of SIM-DPSK FSO System With Multiple Receivers over $ mathcal {M}$-Distributed Atmospheric Channel With Pointing Errors. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	20
181	On the Effect of Correlated Sways on Generalized Misalignment Fading for Terrestrial FSO Links. IEEE Photonics Journal, 2017, 9, 1-14.	2.0	19

#	ARTICLE	IF	CITATIONS
182	Asymptotic Performance Analysis of Multiuser Diversity in Free Space Optical Communication Systems. , 2017, , .		2
183	On the Capacity of Bandlimited Optical Intensity Channels With Gaussian Noise. IEEE Transactions on Communications, 2017, 65, 2481-2493.	7.8	16
184	On the BER performance of FSO links with multiple receivers and spatial jitter over gamma-gamma or exponential turbulence channels. Optik, 2017, 138, 269-279.	2.9	33
185	Optimal Relay Selection for the Parallel Hybrid RF/FSO Relay Channel: Non-Buffer-Aided and Buffer-Aided Designs. IEEE Transactions on Communications, 2017, 65, 2794-2810.	7.8	66
186	Subcarrier PSK Performance in Terrestrial FSO Links Impaired by Gamma-Gamma Fading, Pointing Errors, and Phase Noise. Journal of Lightwave Technology, 2017, 35, 1624-1632.	4.6	54
187	On the Performance of Optical Wireless Links Over Random Foggy Channels. IEEE Access, 2017, 5, 2894-2903.	4.2	30
188	Channel Modeling and Performance Analysis of Modulating Retroreflector FSO Systems Under Weak Turbulence Conditions. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	24
189	Capacity Bounds for the Gaussian IM-DD Optical Multiple-Access Channel. IEEE Transactions on Wireless Communications, 2017, 16, 3328-3340.	9.2	19
190	Low-SNR Capacity of Parallel IM-DD Optical Wireless Channels. IEEE Communications Letters, 2017, 21, 484-487.	4.1	7
191	Enhanced Performance Analysis of Inter-aircraft Optical Wireless Communication Link Using Array of Photodetectors. Journal of Optical Communications, 2017, 39, 1-6.	4.7	5
192	Experimental Demonstration of Software-Configurable Asynchronous Real-Time OFDM Signal Transmission in a Hybrid Fiber-VLLC System. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	17
193	Analysis of mixed RF/FSO system with imperfect CSI estimation. , 2017, , .		8
194	Free-Space Optical Communication Impaired by Angular Fluctuations. IEEE Transactions on Wireless Communications, 2017, 16, 7475-7487.	9.2	42
195	Performance analysis of Free Space Optical communication system for S, C and L band. , 2017, , .		14
196	An approach enabling adaptive FEC for OFDM in fiber-VLLC system. Optics Communications, 2017, 405, 329-333.	2.1	20
197	On the performance of two-way multiuser mixed RF/FSO relay networks with opportunistic scheduling & asymmetric channel gains. , 2017, , .		3
198	Precise outage analysis of mixed RF/unified-FSO DF relaying with HD and 2 IM-DD channel models. , 2017, , .		9
199	GLRT-Based Sequence Detection of OOK Modulation over FSO Turbulence Channels. IEEE Photonics Technology Letters, 2017, , 1-1.	2.5	13

#	ARTICLE	IF	CITATIONS
200	Hybrid Radio Frequency and Free Space Optical communication for 5G backhaul. , 2017, , .		5
201	Ergodic capacity of MIMO-FSO communications over atmospheric turbulence channels. , 2017, , .		2
202	Dynamic Link Selection and Power Allocation With Reliability Guarantees for Hybrid FSO/RF Systems. IEEE Access, 2017, 5, 13654-13664.	4.2	13
203	Near MAP channel estimation for FSO-OOK over atmospheric turbulence with pointing errors. , 2017, , .		2
204	Availability Assessment of Free-Space-Optics Links With Rain Data From Tropical Climates. Journal of Lightwave Technology, 2017, 35, 4282-4288.	4.6	28
205	Optimal user node placement for multi-hop FSO broadcasting communications under weak turbulence conditions. , 2017, , .		1
206	Effects of diversity schemes and correlated channels on OWC systems performance. Journal of Modern Optics, 2017, 64, 2298-2305.	1.3	12
207	Index Modulation Techniques for Next-Generation Wireless Networks. IEEE Access, 2017, 5, 16693-16746.	4.2	622
208	Multi-user FSO communication link. , 2017, , .		8
209	Interplay of energy and bandwidth consumption in CRAN with optimal function split. , 2017, , .		34
210	On the Effects of Temperature on the Performances of FSO Transmission under Qatar's Climate. , 2017, , .		4
211	A 150 m/22.5 Gbaud PAM4-based FSO link. Laser Physics Letters, 2017, 14, 065202.	1.4	1
213	Performance Analysis of Single-Photon Avalanche Diode Underwater VLC System Using ARQ. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	43
214	A 5x16 Gbps DWDM system for ground-to-satellite using RZ signaling scheme under different turbulences. Procedia Computer Science, 2017, 115, 115-122.	2.0	8
215	Analysis of link availability and capacity in multipleâ€input/singleâ€outputâ€Boseâ€"Chaudhuriâ€"Hocquenghem FSO systems under various turbulence conditions with pointing errors. IET Communications, 2017, 11, 1305-1312.	2.2	2
216	Experimental investigation of optimum beam size for FSO uplink. Optics Communications, 2017, 400, 106-114.	2.1	33
217	FSO channel estimation for OOK modulation with APD receiver over atmospheric turbulence and pointing errors. Optics Communications, 2017, 402, 577-584.	2.1	56
218	Effect of Synchronization Error on Optical Spatial Modulation. IEEE Transactions on Communications, 2017, 65, 5362-5374.	7.8	12

#	ARTICLE	IF	CITATIONS
219	Beam spread and wander of Gaussian beam through anisotropic non-Kolmogorov atmospheric turbulence for optical wireless communication. , 2017, , .		0
220	Generalized Blind Detection of OOK Modulation for Free-Space Optical Communication. IEEE Communications Letters, 2017, 21, 2170-2173.	4.1	27
221	Delay-aware green hybrid CRAN. , 2017, , .		13
222	Experimental Investigation of All-Optical Relay-Assisted 10 Gb/s FSO Link Over the Atmospheric Turbulence Channel. Journal of Lightwave Technology, 2017, 35, 45-53.	4.6	76
223	A Survey of Underwater Optical Wireless Communications. IEEE Communications Surveys and Tutorials, 2017, 19, 204-238.	39.4	807
224	Effective capacity of MIMO free-space optical systems over gamma–gamma turbulence channels. Optics Communications, 2017, 382, 450-454.	2.1	15
225	Transmitter Spatial Diversity for FSO Uplink in Presence of Atmospheric Turbulence and Weather Conditions for Different IM Schemes. Journal of Optical Communications, 2017, 39, .	4.7	3
226	Impact of Various Parameters on the Performance of Inter-aircraft Optical Wireless Communication Link. Journal of Optical Communications, 2017, 39, .	4.7	0
227	Optical Communication in Space: Challenges and Mitigation Techniques. IEEE Communications Surveys and Tutorials, 2017, 19, 57-96.	39.4	1,027
228	Simulative Investigation on the Effect of Different Parameters on the Performance of IsOWC System. Journal of Optical Communications, 2017, 38, .	4.7	3
229	Performance of 120 Gbps single and dual polarized 16-QAM coherent FSO systems under various turbulence regimes. , 2017, , .		4
230	Asymptotic high-SNR capacity of MISO optical intensity channels. , 2017, , .		10
231	Performance analysis of Block Error Rate for SIM-FSO system with spatial diversity over Gamma-Gamma fading and pointing error channel. , 2017, , .		6
232	Lighting the Wireless World: The Promise and Challenges of Visible Light Communication. IEEE Consumer Electronics Magazine, 2017, 6, 28-37.	2.3	44
233	Performance analysis of a SAC-OCDMA FSO network. , 2017, , .		5
234	FSO-SIMO system with SIM-DPSK over log-normal atmospheric turbulence and misalignment. , 2017, , .		5
235	C-RAN with Hybrid RF/FSO Fronthaul Links: Joint Optimization of RF Time Allocation and Fronthaul Compression. , 2017, , .		9
236	Design of flip-OFDM system for optical wireless communication. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
237	Analytical approach in evaluation of outage probability of DF based hybrid satellite-terrestrial FSO cooperative system. , 2017, , .		5
238	Achievable rate of DCO-FBMC with low-resolution ADCs for optical wireless communication. , 2017, , .		3
239	On the Performance of Multiplexing FSO MIMO Links in Log-Normal Fading With Pointing Errors. Journal of Optical Communications and Networking, 2017, 9, 974.	4.8	43
240	PAM- and CAP-Based Transmission Schemes for Visible-Light Communications. IEEE Access, 2017, 5, 27002-27013.	4.2	51
241	Block Markov superposition transmission with pulse position modulation over free-space optical links. Journal of Communications and Information Networks, 2017, 2, 142-150.	5.2	1
242	Performance analysis of packet layer FEC codes and interleaving in FSO channels. IET Communications, 2017, 11, 2042-2048.	2.2	5
243	Link budget profile for non-line-of-sight atmospheric infrared links. , 2017, , .		0
244	Adaptive FEC Allocation Algorithm for Wireless Video Transmission. , 2017, , .		1
245	Resource Allocation for Outdoor Visible Light Communications with Energy Harvesting Capabilities. , 2017, , .		11
246	Generalized block Markov superposition transmission over free-space optical links. China Communications, 2017, 14, 80-93.	3.2	3
247	Ripple-based visible light communication technique for switched LED drivers. , 2017, , .		15
248	Exact performance analysis of DF based mixed triple-hop RF/FSO/RF communication system. , 2017, , .		7
249	Performance of FSO system using PPM and MSK sub-carrier intensity modulation scheme. , 2017, , .		4
250	Simulative analysis of NRZ-OOK point-to-point free space optical link under continental fog in view of retinal safety. , 2017, , .		0
251	Optical MISO IM/DD channels: Optimality of spatial repetition codes among DC-offset STBCs. , 2017, , .		1
252	Asymptotic capacity results for MIMO wireless optical communication. , 2017, , .		25
253	Availability modeling of terrestrial free-space-optical links using fade statistics from tropical climate. , 2017, , .		3
254	Average SER of MPPM technique over exponentiated Weibull fading FSO channels considering fog and beam divergence. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
255	Performance analysis of mixed weibull and Gamma-Gamma dual-hop RF/FSO transmission systems. , 2017, , .		8
256	Estimation of optical attenuation in reduced visibility conditions in different environments across free space optics link. IET Microwaves, Antennas and Propagation, 2017, 11, 1708-1713.	1.4	11
257	Empirical performance evaluation of FSO availability under different weather conditions. , 2017, , .		2
258	Performance analysis of SIM based FSO using various modulation techniques with APD receiver over turbulent channel. , 2017, , .		4
259	Audience excitement reflected in respiratory phase synchronization. , 2017, , .		5
260	BPSK based SIM-FSO communication system with SIMO over log-normal atmospheric turbulence with pointing errors. , 2017, , .		12
261	Hybrid optical/RF backhauling for 5G networks. , 2017, , .		3
262	On the performance of AF based mixed triple-hop RF/FSO/RF communication system. , 2017, , .		7
263	Performance improvement in SIM based FSO with APD receiver by using spatial diversity techniques over turbulent channels. , 2017, , .		0
264	Ad hoc FSO communication. , 2017, , .		0
265	On the evaluation of an optical OFDM radio over FSO system with IM-DD for high-speed indoor communications. , 2017, , .		9
266	A Novel Approximation for K Distribution: Closed-Form BER Using DPSK Modulation in Free-Space Optical Communication. IEEE Photonics Journal, 2017, 9, 1-14.	2.0	13
267	Demonstration of Cost-Effective Single-Photodetector Coherent Receiver for Free-Space Optical Communications. , 2017, , .		3
268	Performance analysis of a PPM-FSO communication system with an avalanche photodiode receiver over atmospheric turbulence channels with aperture averaging. Applied Optics, 2017, 56, 6432.	1.8	15
269	64 Gb/s PAM4 VCSEL-based FSO link. Optics Express, 2017, 25, 5749.	3.4	27
270	Energy-efficient multidimensional Hellinger modulation for SPAD-based optical wireless communications. Optics Express, 2017, 25, 22178.	3.4	5
271	Adaptive threshold decision for on-off keying transmission systems in atmospheric turbulence. Optics Express, 2017, 25, 24425.	3.4	19
272	MEMS tracking mirror system for a bidirectional free-space optical link. Applied Optics, 2017, 56, 6720.	1.8	17

#	ARTICLE	IF	CITATIONS
273	Polarization property changes of optical beam transmission in atmospheric turbulent channels. Applied Optics, 2017, 56, 5145.	2.1	19
274	Multicast Techniques for Hybrid RF/FSO DTNs. Journal of Optical Communications and Networking, 2017, 9, 1051.	4.8	2
275	Performance Analysis of Binary Polarization Shift Keying OCDMA FSO System under Different Atmospheric Conditions. , 2017, , .		1
276	An Accurate Computational Tool for Performance Estimation of FSO Communication Links over Weak to Strong Atmospheric Turbulent Channels. Computation, 2017, 5, 18.	2.0	15
277	Quantifying the effect of atmospherically-induced pointing errors in optical geostationary satellite feeder links using transmitter diversity. , 2017, , .		0
278	Design and analysis of multiplexed FSO system with DPSK and Manchester coding. , 2017, , .		3
279	Outage and Diversity Analysis of Underlay Cognitive Mixed RF-FSO Cooperative Systems. Journal of Optical Communications and Networking, 2017, 9, 909.	4.8	43
280	Combined effect of turbulence and aerosol on free-space optical links. Applied Optics, 2017, 56, 336.	2.1	31
281	Outage Probability Analysis for Gamma-Gamma Turbulence FSO in haze. , 2017, , .		0
282	On the performance of DF based mixed triple-hop RF-FSO-RF cooperative system. , 2017, , .		3
283	Improved simulation method for urban free-space optical links based on the finite Markov state model. Optoelectronics Letters, 2017, 13, 363-366.	0.8	0
284	Dual-hop MÃ¡laga-M FSO systems with pointing errors. , 2017, , .		1
285	Unified Performance Analysis of Mixed eta-Âμ and M-Distribution Dual-Hop RF/FSO Systems. , 2017, , .		1
286	BER of MIMO FSO link with Alamouti coding and SEC. , 2017, , .		3
287	Experimental study of the beam wander mitigation in free space optical communications using single input multiple output system. , 2017, , .		4
288	BMST coded PPM over free-space optical links with iterative receiver. , 2017, , .		2
289	MIMO intensity-modulation channels: Capacity bounds and high SNR characterization. , 2017, , .		11
291	Capacity Analysis for Rayleigh/Gamma-Gamma Mixed RF/FSO Link with Fixed-Gain AF Relay. IEICE Transactions on Communications, 2017, E100.B, 1747-1757.	0.7	15

#	Article	IF	Citations
292	Challenges and Opportunities of Optical Wireless Communication Technologies. , 0, , .		39
293	Imperfect-Quantized-Feedback-Based Beamforming for an FSO MISO System Over Gamma–Gamma Fading With Pointing Errors. Journal of Optical Communications and Networking, 2017, 9, 1005.	4.8	16
294	Reducing the Impact of Handovers in Ground-to-Train Free Space Optical Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 1292-1301.	6.3	27
295	A Comparative Survey of Optical Wireless Technologies: Architectures and Applications. IEEE Access, 2018, 6, 9819-9840.	4.2	362
296	A Survey of Positioning Systems Using Visible LED Lights. IEEE Communications Surveys and Tutorials, 2018, 20, 1963-1988.	39.4	397
297	Review on Wavelength Division Multiplexing Free Space Optics. Journal of Optical Communications, 2021, .	4.7	9
298	Performance of wireless optical communication systems under polarization effects over atmospheric turbulence. Optics Communications, 2018, 416, 207-213.	2.1	12
299	A laboratory experimental study on laser attenuations by dust/sand storms. Journal of Aerosol Science, 2018, 121, 31-37.	3.8	26
300	Performance enhancement of IM/DD optical wireless systems. Photonic Network Communications, 2018, 36, 114-127.	2.7	54
301	Experimental demonstration of high spectral efficiency SC–FDMA with soft clipping for optical wireless communication systems. IET Optoelectronics, 2018, 12, 80-85.	3.3	5
302	A Performance Enhancement and High Speed Spectrum Sliced Free Space Optical System. Wireless Personal Communications, 2018, 100, 1775-1789.	2.7	11
303	A Survey on Acquisition, Tracking, and Pointing Mechanisms for Mobile Free-Space Optical Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 1104-1123.	39.4	209
304	New adaptive link layer protocol using optimal packet length for free space optical communications. Physical Communication, 2018, 27, 46-53.	2.1	1
305	Spatial-Mode Diversity and Multiplexing for FSO Communication With Direct Detection. IEEE Transactions on Communications, 2018, 66, 2079-2092.	7.8	32
306	Monte Carlo–based channel estimation and performance evaluation for UWOC links under geometric losses. International Journal of Communication Systems, 2018, 31, e3527.	2.5	11
307	On the Performance of RF-FSO System Over Rayleigh and Kappa-Mu/Inverse Gaussian Fading Environment. IEEE Access, 2018, 6, 4186-4198.	4.2	24
308	On the performance evaluation of LQAM-MPPM techniques over exponentiated Weibull fading free-space optical channels. Optics Communications, 2018, 416, 41-49.	2.1	16
309	Performance Analysis of Atmospheric Conditions Over Terrestrial Free-Space Optical Communication. Lecture Notes in Electrical Engineering, 2018, , 11-20.	0.4	3

#	ARTICLE	IF	CITATIONS
310	Real-time dual-polarization transmission based on hybrid optical wireless communications. Optical Fiber Technology, 2018, 40, 114-117.	2.7	17
311	Performance analysis of EM-based blind detection for ON–OFF keying modulation over atmospheric optical channels. Optics Communications, 2018, 413, 299-303.	2.1	13
312	Performance analysis of an 80 (8ÂÃ—Â10) Gbps RZ-DPSK based WDM-FSO system under combined effects of various weather conditions and atmospheric turbulence induced fading employing Gamma–Gamma fading model. Optical and Quantum Electronics, 2018, 50, 1.	3.3	32
313	A closed-form expression for performance optimization of subcarrier intensity QAM signals-based relay-added FSO systems with APD. Physical Communication, 2018, 31, 203-211.	2.1	9
314	Capacity Results on Multiple-Input Single-Output Wireless Optical Channels. IEEE Transactions on Information Theory, 2018, 64, 6954-6966.	2.4	31
315	Mixed RF/FSO Cooperative Relaying Systems With Co-Channel Interference. IEEE Transactions on Communications, 2018, 66, 4014-4027.	7.8	63
316	Performance Analysis of Full Duplex Modulating Retro-Reflector Free-Space Optical Communications Over Single and Double Gamma-Gamma Fading Channels. IEEE Transactions on Communications, 2018, 66, 3597-3609.	7.8	18
317	Aggregate Hardware Impairments Over Mixed RF/FSO Relaying Systems With Outdated CSI. IEEE Transactions on Communications, 2018, 66, 1110-1123.	7.8	50
318	Worst-case residual clipping noise power model for bit loading in LACO-OFDM. , 2018, , .		7
319	Performance analysis of WDM-FSO system under adverse weather conditions. Photonic Network Communications, 2018, 36, 1-10.	2.7	32
320	Experimental Study of Reconfigurable Visible Light Communications Based on Holographic Spot Array Generations. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	6
321	Performance Analysis of All-Optical Amplify and Forward Relaying Over Log-Normal FSO Channels. Journal of Optical Communications and Networking, 2018, 10, 79.	4.8	43
322	Connectivity and node throughput awareness for hybrid Optical/RF backhauling of 5G networks. , 2018, , .		2
323	All-Optical Transparent Forwarding Relay System for Interstellar Optical Communication Networks. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.9	8
324	A Closed Form Expression for the Bit Error Probability for Majority Logic Decoding of CSOC Codes over $$varGamma varGamma $$ Î“ Î“ Channels. Advances in Intelligent Systems and Computing, 2018, , 200-210.	0.6	2
325	An Analytic Expression for the Beam Wander of a Gaussian Wave Propagating Through Scale-Dependent Anisotropic Turbulence. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 975-982.	1.5	5
326	Reduction in transmitter power requirement for earth-to-satellite and satellite-to-earth free space optical links with spatial diversity. Optical and Quantum Electronics, 2018, 50, 1.	3.3	9
327	Analysis of CPolSK-based FSO system working in space-to-ground channel. Optics Communications, 2018, 410, 660-667.	2.1	4

#	ARTICLE	IF	CITATIONS
328	Experimental demonstration of bidirectional up to 40 Gbit/s QPSK coherent free-space optical communication link over â^¼41 km. Optics Communications, 2018, 410, 674-679.	2.1	13
329	High-dimensional free-space optical communications based on orbital angular momentum coding. Optics Communications, 2018, 410, 333-337.	2.1	8
330	Kerr effect based spectrum sliced wavelength division multiplexing for free space optical communication. Optik, 2018, 157, 31-37.	2.9	26
331	Quantification of the atmospheric turbulence by the method of the equivalent temperature gradient. , 2018, , .		3
332	An Artificial Neural Network Based Attenuation Tomography in Free Space Optical Network. , 2018, , .		1
333	Impact of Timing Offset on Optical Spatial Pulse Position Modulation. , 2018, , .		0
334	Model for the Prediction of Rain Attenuation Affecting Free Space Optical Links. Electronics (Switzerland), 2018, 7, 407.	3.1	25
335	Blind Detection for Serial Relays in Free Space Optical Communication Systems. Applied Sciences (Switzerland), 2018, 8, 2074.	2.5	5
336	Two-Level MPPM-MDPSK Modulation for Free-Space Optical Channels. , 2018, , .		6
337	On the Optimization of Multi-Cell SLIPT Systems. , 2018, , .		2
338	Performance Analysis of MIMO CO-OFDM FSO System under Joint Effect Channel. , 2018, , .		1
339	Time Synchronization Over a Free-Space Optical Communication Channel. , 2018, , .		0
340	Outage Probability Analysis of Uplink NOMA Over Ultra-High-Speed FSO-Backhauled Systems. , 2018, , .		8
341	Schemes of High-Order Pulse Modulations for Gamma-Gamma Channel Free-Space Optical Communication. , 2018, , .		0
342	Investigation on Pointing Error in Multi-Beam Free Space Optical Communication System. Journal of Optical Communications, 2022, 43, 153-163.	4.7	0
343	Performance Analysis of Satellite-to-Ground Coherent Optical Communication System with Aperture Averaging. Applied Sciences (Switzerland), 2018, 8, 2496.	2.5	5
344	Outage Probability Analysis of Mixed RF-FSO System Influenced by Fisher-Snedecor Fading and Gamma-Gamma Atmospheric Turbulence. , 2018, , .		1
345	Survey on Physical Layer Security in Optical Wireless Communication Systems. , 2018, , .		24

#	ARTICLE	IF	CITATIONS
346	Performance Analysis Of Different Modulation Techniques In SIM Based FSO Using Different Receivers Over Turbulent Channel. , 2018, , .		2
347	Performance Evaluation of Spectrum Slicing Based WDM FSO Using MZM Modulation. , 2018, , .		1
348	Error Performance Analysis of RF Subcarrier Adjusted FSO Communication Framework over Robust Environmental Disturbance. , 2018, , .		0
349	Analytical Performance Evaluation of an LDPC Coded FSO Communication System under Strong Atmospheric Turbulence. , 2018, , .		0
350	Channel Performance Evaluation of Wireless Communication Networks. , 2018, , .		2
351	Access Telecommunication Systems Using VLC Technology: Cascaded LD-LED Channel Analysis. , 2018, , .		6
352	A Review On FSO By Using Different Modulation Techniques. International Journal of Engineering and Technology(UAE), 2018, 7, 136.	0.3	4
353	Spatial Diversity Gain of Micrometer-scale MIMO FSO Transceivers utilizing Multicore Fiber and 2-D Photodetector Array. , 2018, , .		1
354	Experimental Demonstration of an LCoS-Based Access Node for Bidirectional Optical Wireless Communications. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	2
355	Performance Analysis for Coherent Space-to-Ground Optical Communication Systems in Turbulence Channels. , 2018, , .		0
356	M-ary ASK Modulation in FSO System with SIMO over Log-normal Atmospheric Turbulence with Pointing Errors. , 2018, , .		1
357	Optical Wireless Hybrid Networks for 5G and Beyond Communications. , 2018, , .		7
358	FSO Communication for High Speed Trains: Blind Data Detection and Channel Estimation. , 2018, , .		4
359	Enhancement of Gigabit Passive Optical Highspeed Network using Fiber-To-The-Home. , 2018, , .		1
360	Physical-Layer Security for Mixed <inline-formula> <tex-math notation="LaTeX">$\eta$$</tex-math> </inline-formula>–<inline-formula> <tex-math notation="LaTeX">$\mu$$</tex-math> </inline-formula> and <inline-formula> <tex-math notation="LaTeX">$\mathcal {M}$$</tex-math> </inline-formula>-Distribution Dual-Hop RF/FSO Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 12427-12431.	6.3	46
361	Joint Optimal Transceiver Placement and Resource Allocation Schemes for Redirected Cooperative Hybrid FSO/mmW 5G Fronthaul Networks. Journal of Optical Communications and Networking, 2018, 10, 975.	4.8	15
362	Quantum Key Distribution over FSO: Current Development and Future Perspectives. , 2018, , .		18
363	Performance of SIM/S-QAM FSO Systems with Phase Errors in Gamma-Gamma Turbulence Channels. , 2018, , .		2

#	Article	IF	Citations
364	Atmospheric Effects on Free Space Optics Wireless Communication: Applications and Challenges. , 2018, , .		5
365	UltraHigh Bit-Rate Hybrid DWDM Optical System Design Using DP-QPSK Modulation. Journal of Optical Communications, 2022, 43, 257-264.	4.7	1
366	Variable Data Rate for Free Space Optical Low Earth Orbit Downlinks (OLEODL). , 2018, , .		4
367	Polar-Coded MIMO FSO Communication System Over Gamma-Gamma Turbulence Channel With Spatially Correlated Fading. Journal of Optical Communications and Networking, 2018, 10, 915.	4.8	37
368	Hybrid free space optical communication system and passive optical network with high splitting ratio for broadcasting data traffic. Journal of Optics (United Kingdom), 2018, 20, 125702.	2.2	21
369	Orbital Angular Momentum Multiplexed Free-Space Optical Communication Systems Based on Coded Modulation. Applied Sciences (Switzerland), 2018, 8, 2179.	2.5	11
370	Exact Outage Probability Analysis of the Mixed RF/FSO System With Variable-Gain Relays. IEEE Photonics Journal, 2018, 10, 1-14.	2.0	14
371	WDM Free-Space Optical Communication System of High-Speed Hybrid Signals. IEEE Photonics Journal, 2018, 10, 1-7.	2.0	26
372	Performance Analysis of Hybrid RF/FSO System Using BPSK-SIM and DPSK-SIM Over Gamma-Gamma Turbulence Channel With Pointing Errors for Smart City Applications. IEEE Access, 2018, 6, 75025-75032.	4.2	27
373	Channel Modeling and Parameter Optimization for Hovering UAV-Based Free-Space Optical Links. IEEE Journal on Selected Areas in Communications, 2018, 36, 2104-2113.	14.0	143
374	Secrecy Performance of Multi-User MISO VLC Broadcast Channels With Confidential Messages. IEEE Transactions on Wireless Communications, 2018, 17, 7789-7800.	9.2	30
375	On the Beam Width Optimization for the Ergodic Capacity of FSO Channels With Misalignment Errors Modeled by Beckmann Distributions. IEEE Photonics Journal, 2018, 10, 1-14.	2.0	4
376	Reducing the Number of FSO Base Stations With Dual Transceivers for Next-Generation Ground-to-Train Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 11143-11153.	6.3	18
377	Analysis of Quantum Key Distribution Based Satellite Communication. , 2018, , .		18
378	Buffer-Aided Serial Relaying for FSO Communications: Asymptotic Analysis and Impact of Relay Placement. IEEE Transactions on Wireless Communications, 2018, 17, 8299-8313.	9.2	18
379	PolSK and ASK Modulation Techniques Based BER Analysis of WDM-FSO System for Under Turbulence Conditions. Wireless Personal Communications, 2018, 103, 3221-3237.	2.7	22
380	On Performance of Adaptive Subcarrier Intensity Modulation Over Generalized FSO Links. , 2018, , .		5
381	Outage Probability Analysis of RF/FSO-VLC Communication Relaying System. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
382	Design of 64 QAM Transceiver Model and its Performance Analysis for FSO Communication. , 2018, , .		3
383	Performance investigation of the polar coded FSO communication system over turbulence channel. Applied Optics, 2018, 57, 7378.	1.8	14
384	Performance analysis of free space optical communication traffic integrated with passive optical network. Electronics Letters, 2018, 54, 1228-1229.	1.0	19
385	Multi-user access in wireless optical communication system. Optics Express, 2018, 26, 22658.	3.4	7
386	Nd^{3+},Ho^{3+}-Codoped apatite-related $NaLa_9(GeO_4)_6O_2$ phosphors for the near- and middle-infrared region. Dalton Transactions, 2018, 47, 14041-14051.	3.3	5
387	Statistical Modeling of FSO Fronthaul Channel for Drone-Based Networks. , 2018, , .		38
388	A cross-layer analysis of TCP/link adaptation technologies over free-space optical links with Markov error model. Photonic Network Communications, 2018, 36, 279-288.	2.7	6
389	InGaAs quantum well based dual-wavelength external cavity surface emitting laser for wideband tunable mid-infrared difference frequency generation. Journal of Luminescence, 2018, 204, 663-667.	3.1	6
390	HARQ Performance over FSO Channels with Atmospheric Fading and Pointing Errors. , 2018, , .		3
391	Evaluation of link-compensated 32â€‰Ã—â€‰40ÂGbit/s DWDM free space optical (FSO) transmission. Journal of Optics (India), 2018, 47, 467-474.	1.7	11
392	A Sparse Temporal Synchronization Algorithm of Laser Communications for Feeder Links in 5G Nonterrestrial Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-17.	1.2	0
393	Performance analysis of MIMO FSO link with Alamouti coding and switch-and-examine combining. Photonic Network Communications, 2018, 36, 350-360.	2.7	8
394	Wireless Optical based Backhaul Communication for 5G Cellular Systems. , 2018, , .		1
395	Laser communication based on a multi-channel single-photon detector. Optics Communications, 2018, 426, 89-93.	2.1	7
396	Maximizing Throughput of Hybrid FSO-RF Communication System: An Algorithm. IEEE Access, 2018, 6, 30039-30048.	4.2	29
397	BER analysis and capacity evaluation of FSO system using hybrid subcarrier intensity modulation with receiver spatial diversity over log-normal and gammaâ€"gamma channel model. Optical and Quantum Electronics, 2018, 50, 1.	3.3	14
398	Terahertz communication: The opportunities of wireless technology beyond 5G. , 2018, , .		141
399	Optical Wireless Communication Channel Measurements and Models. IEEE Communications Surveys and Tutorials, 2018, 20, 1939-1962.	39.4	189

#	Article	IF	Citations
400	Extended Golden Light Code Design for Parallel Free Space Optical MIMO Communications. , 2018, , .		2
401	Protocol Design and Performance Analysis of Multiuser Mixed RF and Hybrid FSO/RF Relaying With Buffers. Journal of Optical Communications and Networking, 2018, 10, 309.	4.8	35
402	Two-Way Multiuser Mixed RF/FSO Relaying: Performance Analysis and Power Allocation. Journal of Optical Communications and Networking, 2018, 10, 396.	4.8	46
403	Secrecy Outage Analysis of Mixed RF-FSO Systems With Channel Imperfection. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	74
404	C-RAN Uplink Optimization Using Mixed Radio and FSO Fronthaul. Journal of Optical Communications and Networking, 2018, 10, 603.	4.8	23
405	Performance Comparison of All-Optical Amplify-and-Forward Relaying FSO Communication Systems With OOK and DPSK Modulations. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	33
406	An Edge Computing Empowered Radio Access Network with UAV-Mounted FSO Fronthaul and Backhaul: Key Challenges and Approaches. IEEE Wireless Communications, 2018, 25, 154-160.	9.0	92
407	Acousto-Optical Modulators for Free Space Optical Wireless Communication Systems. Journal of Optical Communications and Networking, 2018, 10, 515.	4.8	11
408	Beam Wander Effects on Scintillation Theory of Gaussian Beam through Anisotropic Non-Kolmogorov Atmospheric Turbulence for Optical Wireless Communication. , 2018, , .		4
409	Capacity and outage probability analysis of asymmetric dual–hop RF–FSO communication systems. IET Communications, 2018, 12, 1979-1983.	2.2	21
410	Improving the performance of underwater wireless optical communication links by channel coding. Applied Optics, 2018, 57, 2115.	1.8	24
411	375-nm ultraviolet-laser based non-line-of-sight underwater optical communication. Optics Express, 2018, 26, 12870.	3.4	50
412	Effect of anisotropy on bit error rate for an asymmetrical Gaussian beam in a turbulent ocean. Applied Optics, 2018, 57, 2258.	1.8	33
413	Polarization coherent optical communications with adaptive polarization control over atmospheric turbulence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1204.	1.5	13
414	Free-space optical channel characterization and experimental validation in a coastal environment. Optics Express, 2018, 26, 6614.	3.4	36
415	Evaluation of the communication quality of free-space laser communication based on the power-in-the-bucket method. Applied Optics, 2018, 57, 573.	1.8	14
416	Amplify-and-Forward Strategy Using MRC Reception Over FSO Channels with Pointing Errors. Journal of Optical Communications and Networking, 2018, 10, 545.	4.8	19
417	Enhancing early-time diffusion through beam collimation in pulse propagation in sparse discrete random media. Optics Letters, 2018, 43, 3762.	3.3	1

#	Article	IF	Citations
418	Multiplexed free-space optical system design using Manchester coding. Optik, 2018, 174, 266-273.	2.9	8
419	Performance improvement of FSO system using multiâ€pulse pulse position modulation and SIMO under atmospheric turbulence conditions and with pointing errors. IET Networks, 2018, 7, 165-172.	1.8	30
420	Asymptotic bit error rate analysis of free space optical systems using spatial diversity. Optics Communications, 2018, 427, 617-621.	2.1	10
421	On the performance of blueâ€"green waves propagation through underwater optical wireless communication system. Photonic Network Communications, 2018, 36, 309-315.	2.7	18
422	Performance of subcarrier intensity modulation over imprecise Gamma-Gamma fading links. , 2018, , .		0
423	DF Relayed Subcarrier FSO Links over Malaga Turbulence Channels with Phase Noise and Non-Zero Boresight Pointing Errors. Applied Sciences (Switzerland), 2018, 8, 664.	2.5	19
424	Differential Signalling in Free-Space Optical Communication Systems. Applied Sciences (Switzerland), 2018, 8, 872.	2.5	9
425	Polar Coordinate Based Modulation: Concept, Performance Analysis and System Design. , 2018, , .		2
426	Performance of subcarrier intensity modulation over an imprecise gamma-gamma channel. , 2018, , .		0
427	Capacity Bounds and High-SNR Capacity of MIMO Intensity-Modulation Optical Channels. IEEE Transactions on Wireless Communications, 2018, 17, 3003-3017.	9.2	28
428	Outage performance analysis of IHDAF cooperative based communication system. , 2018, , .		1
429	Outage performance analysis of IHDAF cooperative based communication system. , 2018, , .		0
430	Acquisition technology for optical ground stations in satelliteâ€"ground quantum experiments. Applied Optics, 2018, 57, 1351.	1.8	4
431	CAPEX Optimization with Joint Allocation of Hybrid RF/FSO and Optical Fibre Resources in 5G Backhaul. , 2018, , .		0
432	Average Worst-Case PEP Optimality of Repetition Coding Among Rate-1 DC-Offset STBCs for MIMO Optical Intensity Channels. IEEE Transactions on Communications, 2018, 66, 6409-6422.	7.8	3
433	MIMO Optical Intensity Channels with Peak Intensity Constraints: Low-SNR Capacity. , 2018, , .		1
434	Adaptive MIMO FSO Communication Systems with Spatial Mode Switching. Journal of Optical Communications and Networking, 2018, 10, 686.	4.8	16
435	Impact of Temporary Link Blockage on Ergodic Capacity of FSO System. ETRI Journal, 2018, 40, 330-336.	2.0	4

#	Article	IF	Citations
436	The new design of tapered fiber array for space optical receiver. Optical Materials, 2018, 84, 367-370.	3.6	2
437	Extended Quadratic Field Compositum Code for Parallel FSO-MIMO Communications. IEEE Communications Letters, 2018, 22, 1996-1999.	4.1	0
438	Average Achievable Rate of Spatial Diversity MIMO-FSO Over Correlated Gammaâ€"Gamma Fading Channels. Journal of Optical Communications and Networking, 2018, 10, 662.	4.8	26
439	The MISO free-space optical channel at low and moderate SNR. , 2018, , .		4
441	Low-SNR Asymptotic Capacity of MIMO Optical Intensity Channels with Peak and Average Constraints. IEEE Transactions on Communications, 2018, , 1-1.	7.8	13
442	Design and provisioning of optical wireless data center networks: A traffic grooming approach. , 2018, , .		11
443	Asymptotic Performance Analysis of Two-Way Relaying FSO Networks With Nonzero Boresight Pointing Errors Over Double-Generalized Gamma Fading Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 7800-7805.	6.3	19
444	Performance Evaluation of Different Optical Amplifiers in Spectrum Sliced Free Space Optical Link. Journal of Optical Communications, 2019, 41, 9-14.	4.7	14
445	Novel Index Modulation Techniques: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 315-348.	39.4	229
446	Development of a novel hybrid PDM/OFDM technique for FSO system and its performance analysis. Optics and Laser Technology, 2019, 109, 256-262.	4.6	36
447	Performance analysis of chaotic FSO communication system under different weather conditions. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3486.	3.9	24
448	On the Performance of LAP-Based Multiple-Hop RF/FSO Systems. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 499-505.	4.7	30
449	Game-Theoretic Spectrum Trading in RF Relay-Assisted Free-Space Optical Communications. IEEE Transactions on Wireless Communications, 2019, 18, 4803-4815.	9.2	11
450	Non-Data-Aided Cycle Slip Self-Correcting Carrier Phase Estimation for QPSK Modulation Format of Coherent Wireless Optical Communication System. IEEE Access, 2019, 7, 110451-110462.	4.2	8
451	Blind Signal Detection Under Synchronization Errors for FSO Links With High Mobility. IEEE Transactions on Communications, 2019, 67, 7006-7015.	7.8	10
452	Partial Relay Selection with Feedback Delay in an AF Cooperative Relaying RF-FSO System with Spectrum Sharing. , 2019, , .		5
453	Overview of UAV Based Free-Space Optical Communication Systems. Lecture Notes in Computer Science, 2019, , 270-277.	1.3	7
454	An innovative approach for performance enhancement of 320ÂGbps free space optical communication system over turbulent channel. Optical and Quantum Electronics, 2019, 51, 1.	3.3	8

#	ARTICLE	IF	CITATIONS
455	Energy-Efficiency Switchable Grating Coupler for Intra-Chip Wireless Optical Interconnection. IEEE Photonics Technology Letters, 2019, 31, 1429-1432.	2.5	1
456	Physical Layer Security of a Two-Hop Mixed RF-FSO System in a Cognitive Radio Network. , 2019, , .		4
457	Fast and Efficient Sequence Detection for APD Photon-Counting FSO Systems. , 2019, , .		0
458	Capacity Analysis of an AF Relaying Asymmetric RF-FSO System in a Cognitive Radio Network. , 2019, , .		3
459	Performance comparison of M-QAM and DQPSK modulation schemes in a 2â€‰Ã—â€‰20ÂGbit/sâ€“40ÂGHz hybrid MDMâ€“OFDM-based radio over FSO transmission system. Photonic Network Communications, 2019, 38, 378-389.	2.7	30
460	Error Probability Analysis for Dual-Hop Mixed RF-FSO System using CSOC Codes with MLGD Decoding. , 2019, , .		5
461	Triple Hybrid Terresstrial FSO/RF/MMW System with Receiver's Diversity. , 2019, , .		1
462	Mitigation of dispersion and turbulence in a hybrid optical fibre and free-space optics link using electronic equalisation. Optik, 2019, 196, 163154.	2.9	9
463	Advantages and Limits of free Space Optics. International Journal of Advanced Smart Sensor Network Systems, 2019, 9, 1-6.	0.3	5
464	Outage Analysis of UAV-based FSO Systems Over Log-Normal Turbulence Channels. , 2019, , .		5
465	Performance Analysis of Free Space Optical System Under Different Weather Conditions. , 2019, , .		17
466	Transdermal Optical Wireless Links with Multiple Receivers in the Presence of Skin-Induced Attenuation and Pointing Errors. Computation, 2019, 7, 33.	2.0	10
467	Serial DF Relayed FSO Links over Mixture Gamma Turbulence Channels and Nonzero Boresight Spatial Jitter. Computation, 2019, 7, 34.	2.0	5
468	Multi-Access Edge Computing Empowered Heterogeneous Networks: A Novel Architecture and Potential Works. Symmetry, 2019, 11, 842.	2.2	16
469	Performance analysis of maximum ratio transmission based FSO link over MÃ¡laga turbulence channel. Optics Communications, 2019, 450, 341-346.	2.1	12
470	DP-QPSK Technique for Ultra-high Bit-rate DWDM FSO System. Journal of Optical Communications, 2021, .	4.7	2
471	Adaptive Channel Coding and Power Control for Practical FSO Communication Systems Under Channel Estimation Error. IEEE Transactions on Vehicular Technology, 2019, 68, 7566-7577.	6.3	31
472	HAP-Aided Relaying Satellite FSO/QKD Systems for Secure Vehicular Networks. , 2019, , .		16

#	Article	IF	Citations
473	Generalized channel estimation and data detection for MIMO multiplexing FSO parallel channels over limited space. Optics Communications, 2019, 452, 158-168.	2.1	14
474	Phase-Modulated Hybrid High-Speed Internet/WiFi/Pre-5G In-Building Networks Over SMF and PCF With GI-POF/IVLLC Transport. IEEE Access, 2019, 7, 90620-90629.	4.2	9
475	Underwater optical wireless communications, networking, and localization: A survey. Ad Hoc Networks, 2019, 94, 101935.	5.5	285
476	Chaotic Polarization-Assisted ${L}$ DPSK-MPPM Modulation for Free-Space Optical Communications. IEEE Transactions on Wireless Communications, 2019, 18, 4225-4237.	9.2	17
477	Constrained Partial Group Decoding With Max–Min Fairness for Multi-Color Multi-User Visible Light Communication. IEEE Transactions on Communications, 2019, 67, 8573-8584.	7.8	5
478	The Role of Optical Wireless Communication Technologies in 5G/6G and IoT Solutions: Prospects, Directions, and Challenges. Applied Sciences (Switzerland), 2019, 9, 4367.	2.5	157
479	Optimal transceiver placement and resource allocation schemes in cooperative dynamic FSO networks. Journal of Optical Communications and Networking, 2019, 11, 512.	4.8	4
480	Survey on high reliability wireless communication for underwater sensor networks. Journal of Network and Computer Applications, 2019, 148, 102446.	9.1	64
481	Historical perspective of free space optical communications: from the early dates to today's developments. IET Communications, 2019, 13, 2405-2419.	2.2	38
482	Spectral-Efficiency–Illumination Pareto Front for Energy Harvesting Enabled VLC Systems. IEEE Transactions on Communications, 2019, 67, 8557-8572.	7.8	18
483	Resource Allocation in Energy Efficient Hybrid FSO/mmW Fronthaul: A Differential Evolution Approach. , 2019, , .		1
484	Beam Quality Factor and Its Effect on Laser Beam through Anisotropic Turbulence for OWC. , 2019, , .		1
485	Complementary Radiofrequency and Visible Light Systems for Indoor and Vehicular Communications. , 2019, , .		5
486	Phase Offset Tracking for Free Space Digital Coherent Optical Communication System. Applied Sciences (Switzerland), 2019, 9, 836.	2.5	4
487	Graphene-Based Spatial Light Modulator Using Metal Hot Spots. Materials, 2019, 12, 3082.	2.9	7
488	Number of Users Detection in Multi-Point FSOC Using Unsupervised Machine Learning. IEEE Photonics Technology Letters, 2019, 31, 1811-1814.	2.5	5
489	Modeling and Experimental Study of The Vibration Effects in Urban Free-Space Optical Communication Systems. IEEE Photonics Journal, 2019, 11, 1-13.	2.0	5
490	Security outage performance of partial relay selection in AF mixed RF/FSO system with outdated channel state information. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3555.	3.9	9

#	Article	IF	Citations
491	Bit-Shuffle Coding for Flicker Mitigation in Visible Light Communication. IEEE Access, 2019, 7, 150271-150279.	4.2	5
492	LiFi Opportunities and Challenges. , 2019, , .		10
493	DF Relayed QAM or DBPSK FSO Links with Generalized Pointing Errors Over Mixture Gamma Turbulence Channels. , 2019, , .		0
494	Enhancement of Link Range for FSO Ground to Train Communications Using Multiple Transmitters Concept. , 2019, , .		3
495	On the Ergodic Capacity of Ground-To-UAV Free-Space Optical Communications. , 2019, , .		6
496	Impact of the Direct Link on the Performance of Single-Relay Buffer-Aided FSO Communications. , 2019, , .		5
497	On the Reduction of Background Radiation for Differential Signaling FSO Systems. , 2019, , .		1
498	Possibilities of Using the Modified Equivalent Temperature Gradient for a Turbulent Atmosphere. , 2019, , .		4
499	Performance Analysis of FSO System Using FFT-OFDM and DWT-OFDM. , 2019, , .		1
500	Demonstration of Turbulence and Pointing Error Resistant for Free-Space to Single-Mode Coupling Using Photonic Lantern. , 2019, , .		4
501	Effect of Pointing Errors on the Performance of Hybrid FSO/RF Networks. IEEE Access, 2019, 7, 131418-131434.	4.2	37
502	Performance analysis of the decode‐and‐forward relay‐based RF‐FSO communication system in the presence of pointing errors. IET Signal Processing, 2019, 13, 480-485.	1.5	10
503	C-RAN With Hybrid RF/FSO Fronthaul Links: Joint Optimization of Fronthaul Compression and RF Time Allocation. IEEE Transactions on Communications, 2019, 67, 8678-8695.	7.8	21
504	Scintillation Suppression by Gain Saturated SOA with Differential Signal Transmission in Free Space Optical Communication. , 2019, , .		1
505	Resilient hybrid optical-RF backhauling for tiered networks. Physical Communication, 2019, 36, 100814.	2.1	4
506	Optimal coupling condition analysis of free-space optical communication receiver based on few-mode fiber. Optical Fiber Technology, 2019, 53, 102004.	2.7	11
507	Bit error rate and outage analysis of MIMO-FSO communications over K-distributed atmospheric channels with imperfect feedback. Optik, 2019, 198, 163099.	2.9	4
508	Performance enhancement of high-capacity coherent DWDM free-space optical communication link using digital signal processing. Photonic Network Communications, 2019, 38, 326-342.	2.7	16

#	ARTICLE	IF	CITATIONS
509	Fast wavefront reconstruction method of reception diversity atmospheric laser communication based on Fractional Brownian motion. Optics Communications, 2019, 452, 101-108.	2.1	0
510	Steerable reflector-assisted communication in obstructed line-of-sight FSO link with optimal mitigation of dust-induced signal fading. Photonic Network Communications, 2019, 38, 314-325.	2.7	1
511	Towards Energy Neutral Wireless Communications: Photovoltaic Cells to Connect Remote Areas. Energies, 2019, 12, 3772.	3.1	18
512	Investigation of isolation for free space laser communication in the mono-wavelength optical T/R channels. Optik, 2019, 181, 738-747.	2.9	3
513	Free-space optical relaying system with few-mode all-optical relay. Optics Communications, 2019, 439, 164-170.	2.1	4
514	Performance analysis of mixed RF/FSO cooperative systems with wireless power transfer. Physical Communication, 2019, 33, 187-198.	2.1	7
515	Performance of SIMO FSO Links over Mixture Composite Irradiance Channels. Applied Sciences (Switzerland), 2019, 9, 2072.	2.5	12
516	Enhancement of reliability and security in a time-diversity FSO/CDMA wiretap channel. OSA Continuum, 2019, 2, 1524.	1.8	6
517	Channel Modeling for Diffusive Molecular Communicationâ€"A Tutorial Review. Proceedings of the IEEE, 2019, 107, 1256-1301.	21.3	204
518	Performance Analysis of a Multiuser Dual-Hop Amplify-and-Forward Relay System With FSO/RF Links. Journal of Optical Communications and Networking, 2019, 11, 362.	4.8	38
519	Hybrid MMW-over fiber/OFDM-FSO transmission system based on doublet lens scheme and POLMUX technique. Optical Fiber Technology, 2019, 52, 101942.	2.7	50
520	Investigation on Râ€"S Coded Coherent OFDM Free Space Optical (CO-OFDM-FSO) Communication Link Over Gammaâ€"Gamma Channel. Wireless Personal Communications, 2019, 109, 415-435.	2.7	14
521	Performance enhancement of gain saturated SOA based free space optical link using dual-wavelength transmission. Optics Communications, 2019, 446, 134-140.	2.1	2
522	Partially Informed Transmitter-Based Optical Space Shift Keying Under Atmospheric Turbulence. IEEE Transactions on Wireless Communications, 2019, 18, 3781-3796.	9.2	8
523	A Compressive Sensing-Based Dynamic Estimation Algorithm in Unified Laser TTC System. IEEE Access, 2019, 7, 29963-29972.	4.2	0
524	Design and Implementation of a Multi-Colour Visible Light Communication System Based on a Light-to-Frequency Receiver. Photonics, 2019, 6, 42.	2.0	3
525	Acquisition and Tracking of Optical Signals in Free Space. , 2019, , .		0
526	Visible Light Communication: Concepts, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 3204-3237.	39.4	317

#	Article	IF	Citations
527	Centralized-Light-Source Two-Way PAM8/PAM4 FSO Communications With Parallel Optical Injection Locking Operation. IEEE Access, 2019, 7, 36948-36957.	4.2	9
528	Two-Way Mixed RF/FSO Relaying System in the Presence of Co-channel Interference. IEEE Photonics Journal, 2019, 11, 1-16.	2.0	7
529	Mirror-aided non-LOS VLC channel characterizations with a time-efficient simulation model. Photonic Network Communications, 2019, 38, 151-166.	2.7	12
530	Enhancing spectral efficiency of FSO system using adaptive SIM/Mâ€PSK and SIMO in the presence of atmospheric turbulence and pointing errors. International Journal of Communication Systems, 2019, 32, e3942.	2.5	22
531	Performance analysis of mixed RF/FSO system with spatial diversity. Optics Communications, 2019, 443, 230-237.	2.1	4
532	Outage Capacity of Rate-Adaptive Relaying for FSO Links With Nonzero Boresight Pointing Errors. IEEE Photonics Technology Letters, 2019, 31, 717-720.	2.5	4
533	Error performance enhancement of satellite to earth FSO downlink employing hybrid subcarrier intensity modulation scheme with aperture averaging technique. Optical and Quantum Electronics, 2019, 51, 1.	3.3	4
534	Relay Selection Schemes for FSO Communications over Turbulent Channels. Applied Sciences (Switzerland), 2019, 9, 1281.	2.5	11
535	Research on topology control based on Voronoi diagram algorithm in FSO networks. Telecommunication Systems, 2019, 72, 81-93.	2.5	3
536	Deep Learning Framework for Wireless Systems: Applications to Optical Wireless Communications. IEEE Communications Magazine, 2019, 57, 35-41.	6.1	41
537	On the performance of OCDMA/SDM PON based on FSO under atmospheric turbulence and pointing errors. Optics and Laser Technology, 2019, 114, 196-203.	4.6	11
538	Beam Size Optimization and Adaptation for High-Altitude Airborne Free-Space Optical Communication Systems. IEEE Photonics Journal, 2019, 11, 1-13.	2.0	46
539	Modelling of OFDM based RoFSO system for 5G applications over varying weather conditions : A case study. Optik, 2019, 184, 313-323.	2.9	18
540	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence. Wireless Personal Communications, 2019, 107, 1549-1571.	2.7	38
541	Adaptive digital combining for coherent free space optical communications with spatial diversity reception. Optics Communications, 2019, 444, 32-38.	2.1	11
542	Link Estimation of Different Indian Cities Under Fog Weather Conditions. Wireless Personal Communications, 2019, 105, 1215-1234.	2.7	12
543	Turbulence-Resistant All Optical Relaying Based on Few-Mode EDFA in Free-Space Optical Systems. Journal of Lightwave Technology, 2019, 37, 2042-2049.	4.6	12
544	Toward a mixed visible light communications and ranging system for automotive applications. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
545	Mitigating Turbulence-Induced Fading in Coherent FSO Links: An Adaptive Space-Time Code Approach. , 0, , .		1
546	Modulation Schemes for Long Distance Optical Communication. , 2019, , .		3
547	Blind Deconvolution Meets Phase Retrieval in Optical Wireless Communications. , 2019, , .		2
548	On the Capacity of Block Fading Optical Wireless Channels. , 2019, , .		3
549	Up-conversion of eye-safe beams carrying 2D-spatially-modulated information for detection with Si-FPA cameras in FSO applications. , 2019, , .		0
550	Design of a Real-Time Visible Laser Light Communication System with Basedband in FPGA for High Definition video Transmission. , 2019, , .		2
551	Protograph-Based LDPC Code Design for Probabilistic Shaping with On-Off Keying. , 2019, , .		6
552	Analysis of Fiber Based Emitting Head for Optical Wireless Communication. , 2019, , .		1
553	Selected VLC and FSO Applications. , 2019, , 223-234.		0
554	Intelligent Reflecting Surfaces for Free Space Optical Communications. , 2019, , .		59
555	Free Space Optical Systems: Full-Duplex Versus Half-Duplex Buffer-Aided Relaying. , 2019, , .		3
556	Performance Analysis of Decode-and-Forward based Hybrid RF/FSO-VLC system. , 2019, , .		8
557	On Parameter Estimation for Bandlimited Optical Intensity Channels. Computation, 2019, 7, 11.	2.0	8
558	Performance analysis of mixed RF/FSO system with CCI. IET Communications, 2019, 13, 2199-2206.	2.2	2
559	Key Roles of Plasmonics in Wireless THz Nanocommunicationsâ€"A Survey. Applied Sciences (Switzerland), 2019, 9, 5488.	2.5	15
560	Alignment Error Mitigation Techniques for Airborne Free-Space Optical Communication Systems. , 2019, , .		0
561	Performance Evaluation of M-ary Modulated DCO-OFDM in an Indoor Visible Light Communication System. , 2019, , .		0
562	On Optically Pre-Amplified FSO-MISO Non-Identical Links with Correlation: Experiment and Analysis. , 2019, , .		2

#	Article	IF	Citations
563	Hybrid Multipulse Amplitude and Position Modulation for Optical Wireless Communication System. , 2019, , .		1
564	Improving the quality of decrypted signal in an encryption system for secure free-space optical communication. , 2019, , .		1
565	Total Outage Probablity of a Multihop Hybrid FSO/MMW System. , 2019, , .		1
566	Augmented Spatial Modulation (ASM): Secure and Efficient IoT Compatible MIMO Based VLC Links. , 2019, , .		3
567	Differential pulseâ€amplitude modulation signalling for freeâ€space optical communications. IET Optoelectronics, 2019, 13, 155-160.	3.3	2
568	Mechatronic Approach towards Lightweight Mirrors with Active Optics for Telescope Systems. IFAC-PapersOnLine, 2019, 52, 7-12.	0.9	2
569	Performance of Optically-Preamplified, Direct-Detection, M-ary PPM for Inter-Satellite Links. , 2019, , .		1
570	Network planning of uplink all-optical passive FSO/OF C-RAN fronthaul. Journal of Optical Communications and Networking, 2019, 11, 600.	4.8	3
571	Simulation of MIMO-FSO System with Gamma-Gamma Fading under Different Atmospheric Turbulence Conditions. , 2019, , .		6
572	Exact distributions for bit error rate and channel capacity in freeâ€space optical communication. IET Communications, 2019, 13, 2966-2972.	2.2	1
573	Joint Distortion Estimation and Layer Selection of Unequal Error Protection for SVC Video Transmission over FSO Networks. , 2019, , .		1
574	2â€Ã—â€10â€Gbit/sâ€"10â€GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes. Journal of Optical Communications, 2023, 44, 495-503.	4.7	16
575	A new switching scheme for hybrid FSO/RF communication in the presence of strong atmospheric turbulence. Photonic Network Communications, 2019, 37, 53-62.	2.7	17
576	Extended Golden Light Code for FSO-MIMO Communications With Time Diversity. IEEE Transactions on Communications, 2019, 67, 553-563.	7.8	8
577	Integrated RF/Optical Wireless Networks for Improving QoS in Indoor and Transportation Applications. Wireless Personal Communications, 2019, 107, 1401-1430.	2.7	27
578	EMI-Free Bidirectional Real-Time Indoor Environment Monitoring System. IEEE Access, 2019, 7, 5714-5722.	4.2	18
579	Joint user and relay selection for relay-aided RF/FSO systems over Exponentiated Weibull fading channels. Optics Communications, 2019, 436, 209-215.	2.1	10
580	Practical Performance and Prospect of Underwater Optical Wireless Communication. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 156-167.	0.3	22

#	Article	IF	Citations
581	FSO-Based 5G Mobile Cellular Systems for Urban Canyons. Lecture Notes in Electrical Engineering, 2019, , 395-400.	0.4	0
582	Downlink Resource Allocation for Dynamic TDMA-Based VLC Systems. IEEE Transactions on Wireless Communications, 2019, 18, 108-120.	9.2	48
583	Optical Mobile Communications: Principles, Implementation, and Performance Analysis. IEEE Transactions on Vehicular Technology, 2019, 68, 471-482.	6.3	23
584	Novel approximate and asymptotic expressions of the outage probability and BER in gamma–gamma fading FSO links with generalized pointing errors. Optics Communications, 2019, 435, 289-296.	2.1	15
585	Artificial Noise-Based Beamforming for the MISO VLC Wiretap Channel. IEEE Transactions on Communications, 2019, 67, 2866-2879.	7.8	35
586	Error rate and ergodic capacity of RF-FSO system with partial relay selection in the presence of pointing errors. Optics Communications, 2019, 438, 118-125.	2.1	9
587	Adaptive resource allocation in FSO/RF multiuser system with proportional fairness for UAV application. Optical Switching and Networking, 2019, 33, 41-48.	2.0	5
588	Precise Performance Analysis of Dual-Hop Mixed RF/Unified-FSO DF Relaying With Heterodyne Detection and Two IM-DD Channel Models. IEEE Photonics Journal, 2019, 11, 1-22.	2.0	32
589	Statistical Analysis of FSO Links Employing Multiple Transmitter/Receiver Strategy over Double-Generalized and Gamma–Gamma Fading Channel Using Different Modulation Techniques. Journal of Optical Communications, 2019, 40, 295-305.	4.7	11
590	Classification Framework for Free Space Optical Communication Links and Systems. IEEE Communications Surveys and Tutorials, 2019, 21, 1346-1382.	39.4	86
591	Receiver Design for OOK Modulation Over Turbulence Channels Using Source Transformation. IEEE Wireless Communications Letters, 2019, 8, 392-395.	5.0	4
592	Selection combining hybrid FSO/RF systems over generalized induced-fading channels. Optics Communications, 2019, 433, 159-167.	2.1	26
593	Bidirectional free space optical communication (FSO) in WDM access network with 1000-m supportable free space link. Optics Communications, 2019, 435, 394-398.	2.1	42
594	Performance analysis of hybrid RF–FSO systems with amplify-and-forward selection relaying. Optics Communications, 2019, 434, 80-90.	2.1	15
595	Mitigation of turbulence induced scintillation using concave mirror in reflection-assisted OOK free space optical links. Optics Communications, 2019, 432, 101-111.	2.1	10
596	Experimental analysis of a triple-hop relay-assisted FSO system with turbulence. Optical Switching and Networking, 2019, 33, 194-198.	2.0	17
597	Performance Analysis of a Multiple Subcarrier Modulated FSO Communication System using Direct Detection Optical Receiver under the Effect of Weak Atmospheric Turbulence. Journal of Optical Communications, 2020, 41, 453-461.	4.7	2
598	Performance Analysis of Free Space Optical Communication System Using Different Modulation Schemes over Weak to Strong Atmospheric Turbulence Channels. Lecture Notes in Electrical Engineering, 2020, , 387-399.	0.4	6

#	ARTICLE	IF	CITATIONS
599	Performance Comparison of 2â€‰Ã—â€‰20 Gbit/s-40 GHz OFDM Based RoFSO Transmission Link Incorporating MDM of Hermite Gaussian Modes Using Different Modulation Schemes. Wireless Personal Communications, 2020, 110, 699-711.	2.7	43
600	Performance evaluation of direct-detection coherent receiver array for free-space communications with full-link simulation. Optics Communications, 2020, 454, 124520.	2.1	8
601	Performance Comparison of Different Modulation Schemes in High-Speed MDM Based Radio Over FSO Transmission Link Under the Effect of Atmospheric Turbulence Using Aperture Averaging. Wireless Personal Communications, 2020, 111, 825-842.	2.7	37
602	Error Rate Analysis of Amplitude-Coherent Detection Over Rician Fading Channels With Receiver Diversity. IEEE Transactions on Wireless Communications, 2020, 19, 134-147.	9.2	23
603	Secrecy Performance of the MIMO VLC Wiretap Channel With Randomly Located Eavesdropper. IEEE Transactions on Wireless Communications, 2020, 19, 265-278.	9.2	16
604	Development of high-speed FSO transmission link for the implementation of 5G and Internet of Things. Wireless Networks, 2020, 26, 2403-2412.	3.0	45
605	Experimental Mitigation of Atmospheric Turbulence Effect Using Pre-Signal Combining for Uni- and Bi-Directional Free-Space Optical Links With Two 100-Gbit/s OAM-Multiplexed Channels. Journal of Lightwave Technology, 2020, 38, 82-89.	4.6	33
606	Error Performance Analysis of RF Subcarrier Adjusted FSO Communication Framework over Robust Environmental Disturbance. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 647-654.	0.7	0
607	Recent Advances and Future Directions on Underwater Wireless Communications. Archives of Computational Methods in Engineering, 2020, 27, 1379-1412.	10.2	116
608	Tractable Approach to MmWaves Cellular Analysis With FSO Backhauling Under Feedback Delay and Hardware Limitations. IEEE Transactions on Wireless Communications, 2020, 19, 410-422.	9.2	15
609	Hybrid RF/FSO Backhaul Networks With Statistical-QoS-Aware Buffer-Aided Relaying. IEEE Transactions on Wireless Communications, 2020, 19, 1464-1483.	9.2	26
610	Experimental and Analytical Investigations of an Optically Pre-Amplified FSO-MIMO System With Repetition Coding Over Non-Identically Distributed Correlated Channels. IEEE Access, 2020, 8, 12188-12203.	4.2	10
611	Self-Powered Au/MgZnO/Nanolayered Ga-Doped ZnO/In Metalâ€"Insulatorâ€"Semiconductor UV Detector with High Internal Gain at Deep UV Light under Low Voltage. ACS Applied Nano Materials, 2020, 3, 120-130.	5.0	20
612	Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26â€"40 GHz. IEEE Photonics Journal, 2020, 12, 1-9.	2.0	15
613	Deep Learning With Persistent Homology for Orbital Angular Momentum (OAM) Decoding. IEEE Communications Letters, 2020, 24, 117-121.	4.1	11
614	Experimental study of the effects of thermally induced optical turbulence on underwater wireless optical communication link parameters. Journal of Optics (United Kingdom), 2020, 22, 025702.	2.2	12
615	200 G Outdoor Free-Space-Optics Link Using a Single-Photodiode Receiver. Journal of Lightwave Technology, 2020, 38, 394-400.	4.6	29
616	Performance analysis for mixed η-μ shadowed and exponentiated Weibull distributed dual-hop system with multiuser diversity in C-RAN. Optics Communications, 2020, 460, 124926.	2.1	1

#	ARTICLE	IF	CITATIONS
617	Introduction to indoor networking concepts and challenges in LiFi. Journal of Optical Communications and Networking, 2020, 12, A190.	4.8	110
618	On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. IEEE Photonics Journal, 2020, 12, 1-13.	2.0	23
619	Deep Learning for channel estimation in FSO communication system. Optics Communications, 2020, 459, 124989.	2.1	38
620	Free space optics/millimeter-wave based vertical and horizontal terrestrial backhaul network for 5G. Optics Communications, 2020, 459, 125010.	2.1	19
621	A Novel Baseband Faster-Than-Nyquist Non-Orthogonal FDM IM/DD System With Block Segmented Soft-Decision Decoder. Journal of Lightwave Technology, 2020, 38, 632-641.	4.6	10
622	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. IEEE Open Journal of the Communications Society, 2020, 1, 1-32.	6.9	279
623	Optimization of MDM-FSO system with different encoding schemes. Indian Journal of Physics, 2020, 94, 1803-1809.	1.8	1
624	Optical wireless multiple-input multiple-output system based on avalanche photodiode receiver. Annales Des Telecommunications/Annals of Telecommunications, 2020, 75, 89-99.	2.5	0
625	Advanced Progress of Optical Wireless Technologies for Power Industry: An Overview. Applied Sciences (Switzerland), 2020, 10, 6463.	2.5	10
626	Optimization of Free Space Optical Terrestrial Link Considering Different System Parameters. , 2020, , .		2
627	Improved Diver Communication System by Combining Optical and Electromagnetic Trackers. Sensors, 2020, 20, 5084.	3.8	5
628	Overview of Vehicle Optical Wireless Communications. IEEE Access, 2020, 8, 173461-173480.	4.2	8
629	Radio-optical line for SCADA systems with relay. IOP Conference Series: Materials Science and Engineering, 2020, 862, 052017.	0.6	0
630	Pointing errors influence at the performance of a multi-hop terrestrial FSO link emulated by a dual-hop scheme. Optics Communications, 2020, 475, 126223.	2.1	0
631	Design and Performance of Relay-Assisted Satellite Free-Space Optical Quantum Key Distribution Systems. IEEE Access, 2020, 8, 122498-122510.	4.2	14
632	Adaptive Coded Modulation for IM/DD Free-Space Optical Backhauling: A Probabilistic Shaping Approach. IEEE Transactions on Communications, 2020, 68, 6388-6402.	7.8	30
633	A scientific report of non-singular techniques on microring resonators: An application to optical technology. Optik, 2020, 224, 165696.	2.9	17
634	Leveraging the orthogonality of Zernike modes for robust free-space optical communication. Communications Physics, 2020, 3, .	5.3	13

#	Article	IF	Citations
635	Adaptive Probabilistic Shaped Modulation for High-Capacity Free-Space Optical Links. Journal of Lightwave Technology, 2020, 38, 6529-6541.	4.6	27
636	On the physical layer security of hybrid RF-FSO system in presence of multiple eavesdroppers and receiver diversity. Optics Communications, 2020, 477, 126334.	2.1	16
637	Recent progress in and perspectives of underwater wireless optical communication. Progress in Quantum Electronics, 2020, 73, 100274.	7.0	134
638	Fast wave front correction method of reception diversity laser communication based on the analysis of distorted wave front of different receivers. IOP Conference Series: Materials Science and Engineering, 2020, 711, 012078.	0.6	0
639	A Review of Technologies and Techniques for Indoor Navigation Systems for the Visually Impaired. Sensors, 2020, 20, 3935.	3.8	61
640	A unitary operator construction solution based on Pauli group for maximal dense coding with a class of symmetric states. Quantum Information Processing, 2020, 19, 1.	2.2	0
641	Dual-hop deep space-terrestrial FSO/RF communication under solar scintillation: Performance analysis and challenges. China Communications, 2020, 17, 27-37.	3.2	10
642	A Link-Selection Mechanism for Hybrid FSO-mmWave Systems based on Index Modulation. , 2020, , .		7
643	Simple and robust transmit diversity based free-space optical communications for 5G and beyond networks. Optics Communications, 2020, 476, 126306.	2.1	6
644	Optimized design of narrow spectral linewidth nonpolar m-plane InGaN/GaN micro-scale light-emitting diode. Journal of Optics (India), 2020, 49, 397-402.	1.7	1
645	Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. IEEE Photonics Journal, 2020, 12, 1-21.	2.0	18
646	Performance enhancement of M-ary pulse-position modulation for a wavelength division multiplexing free-space optical systems impaired by interchannel crosstalk, pointing error, and ASE noise. Optics Communications, 2020, 475, 126219.	2.1	52
647	Wideband QAM-over-SMF/turbulent FSO downlinks in a PON architecture for ubiquitous connectivity. Optics Communications, 2020, 475, 126281.	2.1	15
648	Secure Backhauling over Adaptive Parallel mmWave/FSO Link. , 2020, , .		7
649	Demo: A Unified Platform of Free-Space Optics for High-Quality Video Transmission. , 2020, , .		2
650	On the performance of AF full FSO two-way relay networks over exponentiated Weibull fading channels. Optics Communications, 2020, 475, 126260.	2.1	2
651	Full Field Radiant Flux Distribution of Multiple Tilted Flat Lambertian Light Sources. IEEE Open Journal of the Communications Society, 2020, 1, 927-942.	6.9	4
652	Ultra-high capacity long-haul PDM-16-QAM-based WDM-FSO transmission system using coherent detection and digital signal processing. Optical and Quantum Electronics, 2020, 52, 1.	3.3	47

#	Article	IF	Citations
653	Diversity analysis of simultaneous mmWave and free-space-optical transmission over <i>F</i>-distribution channel models. Journal of Optical Communications and Networking, 2020, 12, 324.	4.8	26
654	Development of 32-GBaud DP-QPSK free space optical transceiver using homodyne detection and advanced digital signal processing for future optical networks. Optical and Quantum Electronics, 2020, 52, 1.	3.3	13
655	Relay-Assisted Technology in Optical Wireless Communications: A Survey. IEEE Access, 2020, 8, 194384-194409.	4.2	29
656	Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. IEEE Photonics Journal, 2020, 12, 1-11.	2.0	12
657	Outage Probability Estimation for a Multi-hop Terrestrial FSO Link Simplified to a Dual-hop Scheme. , 2020, , .		0
658	A Prospective Look: Key Enabling Technologies, Applications and Open Research Topics in 6G Networks. IEEE Access, 2020, 8, 174792-174820.	4.2	192
659	Performance Analysis of DF Based Cascaded VLC-FSO-VLC System. , 2020, , .		2
660	High capacity data rate system: Review of visible light communications technology. Journal of Electronic Science and Technology, 2020, 18, 100055.	3.6	29
661	DF Relayed OOK and PAM FSO Links with Turbulence and Time Jitter. , 2020, , .		3
662	Hybrid SPAD/PD Receiver for Reliable Free-Space Optical Communication. IEEE Open Journal of the Communications Society, 2020, 1, 1364-1373.	6.9	14
663	Multipoint-to-Multipoint Cooperative Multiuser SIM Free-Space Optical Communication: A Signal-Space Diversity Approach. IEEE Access, 2020, 8, 159244-159259.	4.2	6
664	Performance Analysis of DF Based mixed VLC-FSO-VLC System. , 2020, , .		4
665	Threshold optimization for modified switching scheme of hybrid FSO/RF system in the presence of strong atmospheric turbulence. Photonic Network Communications, 2020, 40, 103-113.	2.7	4
666	Quantum-Cascade Lasers in Atmospheric Optical Communication Lines: Challenges and Prospects (Review). Journal of Applied Spectroscopy, 2020, 87, 579-600.	0.7	9
667	Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility. IEEE Photonics Journal, 2020, 12, 1-12.	2.0	2
668	Analysis of adaptive multi-rate FSO/RF hybrid systems using MÃ¡laga-â„³ distribution model in turbulent channels. Journal of Modern Optics, 2020, 67, 1159-1169.	1.3	4
669	Outage Performance Analysis and Parameter optimization of Hovering UAV-Based FSO System. , 2020, , .		3
670	Performance Analysis of FSO System for Different Amplification Strategies. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
671	Unified Performance Analysis of Multi-Hop FSO Systems Over Double Generalized Gamma Turbulence Channels With Pointing Errors. IEEE Transactions on Wireless Communications, 2020, 19, 7732-7746.	9.2	18
672	Diversity-Multiplexing Tradeoff for Indoor Visible Light Communication. , 2020, , .		10
673	Performance of Generalized QAM/FSO Systems With Pointing Misalignment and Phase Error Over Atmospheric Turbulence Channels. IEEE Access, 2020, 8, 203631-203644.	4.2	19
674	An Industrial View on LiFi Challenges and Future. , 2020, , .		7
675	Cognitive Multi-Point Free Space Optical Communication: Real-Time Users Discovery Using Unsupervised Machine Learning. IEEE Access, 2020, 8, 207575-207588.	4.2	15
676	Performance Analysis and Enhancement of Free Space Optical Links for Developing State-of-the-Art Smart City Framework. Photonics, 2020, 7, 132.	2.0	16
677	Machine Learning Models for Predicting the Quality Factor of FSO Systems with Multiple Transceivers. , 2020, , .		6
678	Highly Directive Biconic Antennas Embedded in a Dielectric. Applied Sciences (Switzerland), 2020, 10, 8828.	2.5	3
679	Indoor Visible Light Communication: A Tutorial and Survey. Wireless Communications and Mobile Computing, 2020, 2020, 1-46.	1.2	49
680	From Mirrors to Free-Space Optical Communicationâ€"Historical Aspects in Data Transmission. Future Internet, 2020, 12, 179.	3.8	30
681	Performance analysis of 80ÂGbps Ro-FSO system by incorporating hybrid WDM-MDM scheme. Optical and Quantum Electronics, 2020, 52, 1.	3.3	18
682	Frontier Progress of Unmanned Aerial Vehicles Optical Wireless Technologies. Sensors, 2020, 20, 5476.	3.8	16
683	Deep Soft Interference Cancellation for MIMO Detection. , 2020, , .		9
684	Secure Index-Modulation Based Hybrid Free Space Optical and Millimeter Wave Links. IEEE Transactions on Vehicular Technology, 2020, 69, 6325-6332.	6.3	13
685	Instability of UV Photoresponse in MgZnO Thin Films and Its Improvement by MgO Capping. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000026.	1.8	5
686	Performance Analysis of Mixed Interference Aligned MIMO RF/Unified FSO DF Relaying With Heterodyne Detection and Two IMDD Models. IEEE Access, 2020, 8, 93297-93308.	4.2	6
687	Indoor Optical Intercom System: Application of Visible Light Communication system for audio transmission using PDM. , 2020, , .		1
688	On Secrecy Performance of Mixed Generalized Gamma and MÃ¡laga RF-FSO Variable Gain Relaying Channel. IEEE Access, 2020, 8, 104127-104138.	4.2	23

#	Article	IF	Citations
689	Improved transmission length in the presences of ambient noise and scintillation effect using duobinary modulation in 40â€°Gbps free space optical channel. Microwave and Optical Technology Letters, 2020, 62, 3163-3169.	1.4	7
690	Amplitude-Coherent Detection for Optical Wireless Communications: Opportunities and Limitations. IEEE Open Journal of the Communications Society, 2020, 1, 550-562.	6.9	9
691	Graphene-based spatial light modulator using optical checkerboard AMC metasurface. Optics Communications, 2020, 474, 126115.	2.1	3
692	On the performance of free space optical communication link over dust environment. AIP Conference Proceedings, 2020, , .	0.4	15
693	Time jitter influence on the performance of gammaâ€"gamma turbulence FSO links with various modulation schemes. Journal of Modern Optics, 2020, 67, 721-729.	1.3	9
694	Error performance analysis of PPM-and FSK-based hybrid modulation scheme for FSO satellite downlink. Optical and Quantum Electronics, 2020, 52, 1.	3.3	12
695	Performance analysis of modulating retro-reflector FSO communication systems over MÃ¡laga turbulence channels. Optics Communications, 2020, 474, 126160.	2.1	7
696	Outdoor Optical Wireless Communication: potentials, standardization and challenges for Smart Cities. , 2020, , .		9
697	Methods for coherent optical Doppler orbitography. Journal of Geodesy, 2020, 94, 1.	3.6	8
698	Analytical Channel Model and Link Design Optimization for Ground-to-HAP Free-Space Optical Communications. Journal of Lightwave Technology, 2020, 38, 5036-5047.	4.6	54
699	Low-complexity parallel real-valued weight adaptive digital combining algorithm for coherent FSO communications employing modes diversity reception under atmospheric turbulence channel. Optics Communications, 2020, 474, 126078.	2.1	2
700	Rain Effects on FSO and mmWave Links: Preliminary Results from an Experimental Study. , 2020, , .		3
701	Some practical constraints and solutions for optical camera communication. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190191.	3.4	43
702	On the Capacity of MIMO Optical Wireless Channels. IEEE Transactions on Information Theory, 2020, 66, 5660-5682.	2.4	23
703	Generation of 40ÂGHz/80ÂGHz OFDM based MMW source and the OFDM-FSO transport system based on special fine tracking technology. Optical Fiber Technology, 2020, 54, 102130.	2.7	43
704	Capacity of optical wireless communication channels. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190184.	3.4	18
705	Field experiment and analysis for free-space laser transmission characteristic in turbulent path based on MWIR and NIR. Modern Physics Letters B, 2020, 34, 2050148.	1.9	3
706	Performance of generalized frequency division multiplexing over gamma gamma free space optical link. Optics Communications, 2020, 466, 125683.	2.1	6

#	ARTICLE	IF	CITATIONS
707	Real-time optimal tracking angles of photodiodes for MC-VLC in indoor mobile scenarios. Optics Communications, 2020, 469, 125744.	2.1	2
708	Statistical Modeling of the FSO Fronthaul Channel for UAV-Based Communications. IEEE Transactions on Communications, 2020, 68, 3720-3736.	7.8	63
709	Interference Analysis for Optical Wireless Communications in Network-on-Chip (NoC) Scenarios. IEEE Transactions on Communications, 2020, 68, 1662-1674.	7.8	11
710	Physical layer security of a two way relay based mixed FSO/RF network in the presence of multiple eavesdroppers. Optics Communications, 2020, 463, 125429.	2.1	19
711	A PDM-based 128-Gb/s PAM4 fibre-FSO convergent system with OBPFs for polarisation de-multiplexing. Scientific Reports, 2020, 10, 1872.	3.3	11
712	Enhanced performance analysis of a hybrid spectrum sliced–wavelength division multiplexing–mode division multiplexing–orthogonal frequency division multiplexing based radio–over–free space optics. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3897.	3.9	3
713	Uplink Non-Orthogonal Multiple Access Over Mixed RF-FSO Systems. IEEE Transactions on Wireless Communications, 2020, 19, 3558-3574.	9.2	26
714	Resource Allocation for Hybrid RF/FSO Multi-Channel Multi-Radio Wireless Mesh Networks. IEEE Access, 2020, 8, 9358-9370.	4.2	8
715	Continuous-Variable Quantum Key Distribution Over Air Quantum Channel With Phase Shift. IEEE Access, 2020, 8, 39672-39677.	4.2	4
716	10Gb/s Two-User Spatial Diversity FSO-CDMA Wiretap Channel Based on Reconfigurable Optical Encoder/Decoders. IEEE Access, 2020, 8, 38941-38949.	4.2	6
717	Spectral Efficiency and Energy Harvesting in Multi-Cell SLIPT Systems. IEEE Transactions on Wireless Communications, 2020, 19, 3304-3318.	9.2	27
718	Ergodic Sum Rate Analysis of UAV-Based Relay Networks With Mixed RF-FSO Channels. IEEE Open Journal of the Communications Society, 2020, 1, 164-178.	6.9	43
719	2×2-channel mode-wavelength division multiplexing in Ro-FSO system with PCF mode group demultiplexers and equalizers. Optics Communications, 2020, 467, 125539.	2.1	30
720	Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. IEEE Systems Journal, 2020, 14, 4036-4046.	4.6	19
721	BER performance analysis of drone-assisted optical wireless systems with APD receiver. Optics Communications, 2020, 463, 125309.	2.1	19
722	The influence of alignment tolerance on coupling efficiency of FSOC system based on few-mode fiber. Journal of Optics (United Kingdom), 2020, 22, 015602.	2.2	6
723	A Routing and Wavelength Assignment Algorithm Based on Two Types of LEO Constellations in Optical Satellite Networks. Journal of Lightwave Technology, 2020, 38, 2106-2113.	4.6	28
724	Incremental Diversity Order for Characterization of FSO Communication Systems Over Lognormal Fading Channels. IEEE Communications Letters, 2020, 24, 825-829.	4.1	15

#	ARTICLE	IF	CITATIONS
725	Optical Wireless Hybrid Networks: Trends, Opportunities, Challenges, and Research Directions. IEEE Communications Surveys and Tutorials, 2020, 22, 930-966.	39.4	167
726	Estimating refractive index structure constant and extinction coefficient under misalignment. Optik, 2020, 206, 164182.	2.9	0
727	When to Use Optical Amplification in Noncoherent Transmission: An Information-Theoretic Approach. IEEE Transactions on Communications, 2020, 68, 2438-2445.	7.8	6
728	High-Speed Mid-Infrared Interband Cascade Photodetector Based on InAs/GaAsSb Type-II Superlattice. Journal of Lightwave Technology, 2020, 38, 939-945.	4.6	26
729	Free space optical system design using particle swarm optimization. International Journal of Communication Systems, 2020, 33, e4452.	2.5	5
730	Novel suboptimal approaches for hyperparameter tuning of deep neural network [under the shelf of optical communication]. Physical Communication, 2020, 41, 101057.	2.1	31
731	Physical Layer Security for Visible Light Communication Systems: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1887-1908.	39.4	115
732	Effect of Link Misalignment in the Optical-Internet of Underwater Things. Electronics (Switzerland), 2020, 9, 646.	3.1	18
733	BER Analysis of IM and BPPM for Satellite-to-Ground Laser Communications. , 2020, , .		3
734	Performance evaluation of 6.4 Tbps dual polarization quadrature phase shift keying Nyquist-WDM superchannel FSO transmission link: Impact of different weather conditions. AEJ - Alexandria Engineering Journal, 2020, 59, 977-986.	6.4	40
735	Atmospheric scattering and turbulence modeling for ultraviolet wavelength applications. Bulletin of Atmospheric Science and Technology, 2020, 1, 205-229.	0.9	1
736	Face-to-Face EML Transceiver Tandem for Full-Duplex Analogue Radio-over-Air. Journal of Lightwave Technology, 2020, , 1-1.	4.6	4
737	Mixed Dual-Hop FSO-RF Communication Systems Through Reconfigurable Intelligent Surface. IEEE Communications Letters, 2020, 24, 1558-1562.	4.1	84
738	Outage Analysis of Adaptive Combining Scheme for Hybrid FSO/RF Communication. , 2020, , .		9
739	Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. IEEE Photonics Journal, 2020, 12, 1-11.	2.0	14
740	SSB Single Carrier and Multicarrier in C-Band FSO Transmission With KK Receiver. Journal of Lightwave Technology, 2020, 38, 5000-5007.	4.6	6
741	On Secure Mixed RF-FSO Systems With TAS and Imperfect CSI. IEEE Transactions on Communications, 2020, 68, 4461-4475.	7.8	65
742	Underwater Optical Wireless Communications: Overview. Sensors, 2020, 20, 2261.	3.8	153

#	Article	IF	Citations
743	Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. IEEE Photonics Journal, 2020, 12, 1-12.	2.0	6
744	Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. IEEE Photonics Journal, 2020, 12, 1-13.	2.0	15
745	Asymptotic Performance of Generalized Transmit Laser Selection Over Lognormal Turbulence Channels. IEEE Communications Letters, 2020, 24, 1762-1766.	4.1	6
746	Investigation and Analysis of Data Rate for Free Space Optical Communications System Under Dust Conditions. Wireless Personal Communications, 2020, 113, 2327-2338.	2.7	20
747	CO-OFDM and DP-QPSK Based DWDM Optical Wireless Communication System. Journal of Optical Communications, 2021, 42, 311-323.	4.7	7
748	Research on performance of convex partially coherent flat-topped beams in vertical atmospheric turbulent paths. Optics Communications, 2021, 482, 126577.	2.1	1
749	Non-Standalone 5G NR Fiber-Wireless System Using FSO and Fiber-Optics Fronthauls. Journal of Lightwave Technology, 2021, 39, 406-417.	4.6	37
750	Investigations of Free Space Optical Communications Under Real-World Atmospheric Conditions. Wireless Personal Communications, 2021, 116, 475-490.	2.7	24
751	Performance study of wavelength diversity serial relay OFDM FSO system over exponentiated Weibull channels. Optics Communications, 2021, 478, 126470.	2.1	7
752	A long-haul 100 Gbps hybrid PDM/CO-OFDM FSO transmission system: Impact of climate conditions and atmospheric turbulence. AEJ - Alexandria Engineering Journal, 2021, 60, 785-794.	6.4	28
753	Performance Investigation of 1.6 Tbps Hybrid WDM-PDM-OFDM-based Free Space Optics Transmission Link. Wireless Personal Communications, 2021, 117, 2285-2309.	2.7	16
754	Integration of fiber and FSO network with fault-protection for optical access network. Optics Communications, 2021, 484, 126676.	2.1	20
756	<scp>Bit‐error‐rate</scp> performance of <scp>high‐order APPM</scp> and <scp>AOPPM</scp> for <scp>non‐Kolmogorov gamma–gamma</scp> channel <scp>FSO</scp> communications. Microwave and Optical Technology Letters, 2021, 63, 1141-1146.	1.4	0
757	Vehicular Visible Light Communications: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 161-181.	39.4	134
758	Performance analysis of index modulation based link-selection mechanism for hybrid FSO-mmWave systems. Optics Communications, 2021, 479, 126305.	2.1	8
759	Usage of Light Emitting Diodes (LEDs) for improved satellite tracking. Acta Astronautica, 2021, 179, 228-237.	3.2	12
760	Structured Light in Turbulence. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-21.	2.9	79
761	Mixed RF/FSO Deep Space Communication System Under Solar Scintillation Effect. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3237-3251.	4.7	18

#	Article	IF	Citations
762	Windowed Decoding for Delayed Bit-Interleaved Coded Modulation. IEEE Communications Letters, 2021, 25, 3483-3487.	4.1	4
763	Performance of free-space optical systems in the presence of receiver imperfections. IOP Conference Series: Materials Science and Engineering, 0, 1032, 012002.	0.6	1
764	Diversity aided millimeterâ€wave/free space optical cooperative relaying systems. International Journal of Communication Systems, 2021, 34, e4700.	2.5	4
765	Accurate BER Approximation for SIM with BPSK and Multiple Transmit Apertures over Strong Atmospheric Turbulence. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, , .	0.3	0
766	Optical Wireless Communication: A Candidate 6G Technology?. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 227-234.	0.3	34
767	Performance Analysis of Multi-Branch Reconfigurable Intelligent Surfaces-Assisted Optical Wireless Communication System in Environment With Obstacles. IEEE Transactions on Vehicular Technology, 2021, 70, 9986-10001.	6.3	30
768	Demonstration of Turbulence Mitigation in a 200-Gbit/s Orbital- Angular-Momentum Multiplexed Free-Space Optical Link using Simple Power Measurements on a Probe Wavelength. , 2021, , .		0
769	Iterative Signal Detection Under Timing Errors for Optical Wireless Links With High Mobility. IEEE Transactions on Vehicular Technology, 2021, 70, 11710-11720.	6.3	1
770	Recent Advances in High Speed Photodetectors for eSWIR/MWIR/LWIR Applications. Photonics, 2021, 8, 14.	2.0	25
772	Performance Analysis of a UAV-Assisted RF/FSO Relaying Systems for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5730-5741.	8.7	16
773	Optical Camera Communication in Vehicular Applications: A Review. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6260-6281.	8.0	18
774	Stochastic Approximation Aided Adaptive Thresholding for Optical Detection in PAM4 Based FSO Transmission. IEEE Access, 2021, 9, 106451-106458.	4.2	1
775	Properties of the Support of the Capacity-Achieving Distribution of the Amplitude-Constrained Poisson Noise Channel. IEEE Transactions on Information Theory, 2021, 67, 7050-7066.	2.4	2
776	Enhancing Resilience of FSO Networks to Adverse Weather Conditions. IEEE Access, 2021, 9, 123541-123565.	4.2	5
777	Quantum Internetâ€"Applications, Functionalities, Enabling Technologies, Challenges, and Research Directions. IEEE Communications Surveys and Tutorials, 2021, 23, 2218-2247.	39.4	41
778	Performance evaluation of 120ÂGB/s hybrid FSO-SACOCDMA-MDM system using newly designed ITM-Zero cross-correlation code. Optical and Quantum Electronics, 2021, 53, 1.	3.3	9
779	Performance analysis of FSOC system over generalized turbulence channel with pointing errors using Po1SK signalling technique. , 2021, , .		0
780	Performance Enhancement of MIMO Configurations in FSO System Under Different Weather Conditions. Lecture Notes in Electrical Engineering, 2021, , 73-84.	0.4	1

#	Article	IF	Citations
781	Improved receiver of ICI compensation for a spectral efficient frequency division multiplexing IM/DD system. Optics Express, 2021, 29, 3067.	3.4	1
782	Î´ dualâ€hop equivalent structure of a generalised multiâ€hop freeâ€space optics network. IET Communications, 2021, 15, 730-735.	2.2	0
783	Parameter Optimization for an Underwater Optical Wireless Vertical Link Subject to Link Misalignments. IEEE Journal of Oceanic Engineering, 2021, 46, 1424-1437.	3.8	19
784	Single-Layer Phase Screen With Pointing Errors for Free Space Optical Communication. IEEE Access, 2021, 9, 104070-104078.	4.2	4
785	Full-duplex Underwater Optical Communication Systems: A Review. , 2021, , .		4
786	Study of Spectral-Efficient 400 Gbps FSO Transmission Link Derived from Hybrid PDM-16-QAM With CO-OFDM. Algorithms for Intelligent Systems, 2021, , 433-441.	0.6	1
787	Secrecy Performance Analysis of Mixed α â’ μ and Exponentiated Weibull RF-FSO Cooperative Relaying System. IEEE Access, 2021, 9, 72342-72356.	4.2	24
788	Performance Investigation of 4â‰Ã—â‰20ÂGbit/S-40ÂGHz MDM-OFDM-FSO System Under Weather Conditions. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 1089-1099.	0.7	0
789	A Survey on Higher-Order QAM Constellations: Technical Challenges, Recent Advances, and Future Trends. IEEE Open Journal of the Communications Society, 2021, 2, 617-655.	6.9	46
790	UAV-Assisted Underwater Sensor Networks Using RF and Optical Wireless Links. Journal of Lightwave Technology, 2021, 39, 7070-7082.	4.6	27
791	Hybrid LiFi and WiFi Networks: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 1398-1420.	39.4	118
792	Simulation analysis of adaptive FSO/RF hybrid link under diverse weather conditions of Lahore, Pakistan. Results in Optics, 2021, 2, 100047.	2.0	8
793	A Cognitive Radio Enabled RF/FSO Communication Model for Aerial Relay Networks: Possible Configurations and Opportunities. IEEE Open Journal of Vehicular Technology, 2021, 2, 45-53.	4.9	13
794	BER performance analysis of FSO using hybrid-SIM technique with APD receiver over weak and strong turbulence channels. Journal of Optical Communications, 2024, 44, s85-s96.	4.7	3
795	Performance evaluation of DVB-t image transmission over a MIMO OWC channel at 650Ânm under varying turbulence regimes. Wireless Networks, 2021, 27, 1965-1979.	3.0	6
796	Multi-hop DF relayed FSO links with various modulation formats emulated by a dual-hop scheme for strong turbulence conditions. Optik, 2021, 227, 165972.	2.9	6
797	Performance of optical space shift keying under jamming. Applied Optics, 2021, 60, 1856.	1.8	6
798	Design of 16ÂÃ—Â40ÂGbps hybrid PDM-WDM FSO communication system and its performance comparison with the traditional model under diverse weather conditions of Bangladesh. Journal of Optical Communications, 2024, 44, s1521-s1533.	4.7	12

#	Article	IF	Citations
799	Next generation optical wireless communication: a comprehensive review. Journal of Optical Communications, 2024, 44, s1535-s1550.	4.7	10
800	Beaconless PAT and adaptive beam control using variable focus lens for free-space optical communication systems. APL Photonics, 2021, 6, .	5.7	19
801	Assessment of the FSO communication system using adaptive and MIMO MPPM with pointing errors and an atmospheric turbulence channel. Applied Optics, 2021, 60, 1719.	1.8	5
802	DeepSIC: Deep Soft Interference Cancellation for Multiuser MIMO Detection. IEEE Transactions on Wireless Communications, 2021, 20, 1349-1362.	9.2	60
803	Performance Analysis of Mixed MIMO RF/FSO DF Relaying Based on Globally Coupled Low Density Parity Check (GC-LDPC) Codes. , 2021, , .		2
804	Performance investigation of a 3.84ÂTb/s WDM-based FSO transmission system incorporating 3-D orthogonal modulation scheme. Photonic Network Communications, 2021, 41, 177-188.	2.7	5
805	Mitigation of Scintillation in FSOC Using RSOA-Based Spectrum-Sliced Incoherent Light. IEEE Photonics Technology Letters, 2021, 33, 227-230.	2.5	7
806	Free space optic channel monitoring using machine learning. Optics Express, 2021, 29, 10967.	3.4	22
807	Proximity Effect Correction for Fresnel Holograms on Nanophotonic Phased Arrays. , 2021, , .		1
808	Performance Evaluation of Underwater Wireless Optical Communication System by Varying the Environmental Parameters. Photonics, 2021, 8, 74.	2.0	7
809	Research on dynamic handover decision algorithm based on fuzzy logic control in mobile FSO networks. Photonic Network Communications, 2021, 41, 136-147.	2.7	6
810	High-sensitivity inter-satellite optical communications using chip-scale LED and single-photon detector hardware. Optics Express, 2021, 29, 10749.	3.4	7
811	Machine Learning Based Tool Chain Solution for Free Space Optical Communication (FSOC) Propagation Modeling. , 2021, , .		2
812	Performance Analysis and Design Considerations of the Shallow Underwater Optical Wireless Communication System with Solar Noises Utilizing a Photon Tracing-Based Simulation Platform. Electronics (Switzerland), 2021, 10, 632.	3.1	12
813	Compensation-free high-dimensional free-space optical communication using turbulence-resilient vector beams. Nature Communications, 2021, 12, 1666.	12.8	86
814	Performance Analysis for Mixed Îº-Î¼ Fading and M-Distribution Dual-Hop Radio Frequency/Free Space Optical Communication Systems. IEEE Transactions on Wireless Communications, 2021, 20, 1517-1528.	9.2	33
817	FSO Receiver With Adaptive Alignment Based on Pure Phased Holographic Imaging. Frontiers in Physics, 2021, 9, .	2.1	0
818	Maximizing the Area Spanned by the Optical SNR of the 5G Using Digital Modulators and Filters. International Arab Journal of Information Technology, 2021, 18, .	0.7	0

#	Article	IF	Citations
819	Calculation of the Applicable Wavelengths in Underwater Communication. , 2021, , .		0
820	A spectral-efficient 1 Tbps terrestrial free-space optics link based on super-channel transmission. Optical and Quantum Electronics, 2021, 53, 1.	3.3	10
821	Networking in Oceans. ACM Computing Surveys, 2022, 54, 1-33.	23.0	8
822	Tracking System for Fast Moving Nodes in Optical Mobile Communication and the Design Rules. IEEE Transactions on Wireless Communications, 2021, 20, 2716-2728.	9.2	6
823	Cooperative Hybrid VLC/RF Systems With SLIPT. IEEE Transactions on Communications, 2021, 69, 2532-2545.	7.8	26
824	A bidirectional hybrid WDM-OFDM network for multiservice communication employing self-injection locked Qdash laser source based on elimination of Rayleigh backscattering noise technique. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
825	High-speed interband cascade infrared photodetectors: photo-response saturation by a femtosecond oscillator. Optics Express, 2021, 29, 14087.	3.4	5
826	Impact of relay placement in three-hop buffer-aided FSO systems: An approximate performance analysis approach. Physical Communication, 2021, 45, 101276.	2.1	2
827	Performance analysis of FSO based inter-UAV communication systems. Optical and Quantum Electronics, 2021, 53, 1.	3.3	7
828	Performance analysis of hybrid MPAPM technique for deepâ€space optical communications. IET Communications, 2021, 15, 1700-1709.	2.2	4
829	A Review of immigration obstacles to PON-FTTH and its evolution around the world. Telkomnika (Telecommunication Computing Electronics and Control), 2021, 19, 645.	0.8	3
830	Wireless Sensor Networks Using Sub-Pixel Optical Camera Communications: Advances in Experimental Channel Evaluation. Sensors, 2021, 21, 2739.	3.8	11
831	Precoded Optical Spatial Modulation for Indoor Visible Light Communications. IEEE Transactions on Communications, 2021, 69, 2518-2531.	7.8	4
832	Performance analysis of hybrid FSO/RF communication over generalized fading models. Optics Communications, 2021, 487, 126796.	2.1	29
833	Designing and Simulation of 30Gbps FSO Communication Link Under Different Atmospheric and Cloud Conditions. SSRG International Journal of Engineering Trends and Technology, 2021, 69, 228-234.	0.5	3
834	Compact dual-wavelength vertical-external-cavity surface-emitting laser with simple elements. Optics Express, 2021, 29, 16572.	3.4	6
835	Optimal Microwave Wireless Backhaul Link Design Using a Massive MIMO for 5G HetNet-Practical Deployment Scenario. Wireless Personal Communications, 2021, 120, 2117-2133.	2.7	1
836	Experimental performance evaluation of weak turbulence channel models for FSO links. Optics Communications, 2021, 486, 126776.	2.1	14

#	ARTICLE	IF	CITATIONS
838	Novel approximate distribution of the sum of Gamma–Gamma variates with pointing errors and applications in MIMO FSO links. Optics Communications, 2021, 486, 126780.	2.1	8
839	Influence of Pointing Errors at the Block Error Rate Performance of Strong Turbulent SIMO FSO Links. , 2021, , .		0
840	On the Design of Optical Energy Harvesting and Storage Systems for Outdoor Small Cells. , 2021, , .		1
841	Physical Layer Security of Hybrid FSO-mmWave Communications in Presence of Correlated Wiretap Channels. , 2021, , .		6
842	A Survey on Integrated Access and Backhaul Networks. Frontiers in Communications and Networks, 2021, 2, .	3.0	24
843	Using Machine Learning Algorithms for Accurate Received Optical Power Prediction of an FSO Link over a Maritime Environment. Photonics, 2021, 8, 212.	2.0	21
844	Design and simulation of the optical amplitude-shift keying modulator using Fabry–Perot resonator coupled with graphene at near-infrared frequencies. Journal of Nanophotonics, 2021, 15, .	1.0	1
845	Vision of IoUT: advances and future trends in optical wireless communication. Journal of Optics (India), 2021, 50, 439-452.	1.7	12
846	Towards underwater coherent optical wireless communications using a simplified detection scheme. Optics Express, 2021, 29, 19340.	3.4	22
847	Wavefront correction algorithm based on a complete second-order DM-SHWS model for free-space optical communications. Applied Optics, 2021, 60, 4954.	1.8	5
848	Analyzing the Impact of Fog and Atmospheric Turbulence on the Deployment of Free-Space Optical Communication Links in India. Arabian Journal for Science and Engineering, 2022, 47, 2691-2710.	3.0	5
849	Finite-SNR Diversity Gain Analysis of FSO Systems over Gamma-Gamma Fading Channels With Pointing Errors. IEEE Communications Letters, 2021, 25, 1940-1944.	4.1	4
850	Data reliability enhancement using RS coded DP-16-QAM based FSO system under different weather conditions. Optical and Quantum Electronics, 2021, 53, 1.	3.3	5
851	Development of Fine Tracking Unit for Hybrid ATP Mechanism in Free-space Optical Communication. , 2021, , .		1
852	Performance Analysis of Free Space Optics Link Under the Effect of Rain Attenuation. , 2021, , .		5
853	HAPS-Based Relaying for Integrated Space–Air–Ground Networks With Hybrid FSO/RF Communication: A Performance Analysis. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1581-1599.	4.7	77
854	Resource Allocation in C-RAN with Hybrid RF/FSO and Full-duplex Self-Backhauling Radio Units. , 2021, , .		3
855	Time Jitter Influence on the Performance of PPM or PAM SIMO FSO Links over M-Turbulence Channels. , 2021, , .		0

#	Article	IF	Citations
856	On secrecy analysis of wireless-powered relaying FSO-RF systems. Optical Engineering, 2021, 60, .	1.0	2
857	Design and Analysis of Delayed Bit-Interleaved Coded Modulation With LDPC Codes. IEEE Transactions on Communications, 2021, 69, 3556-3571.	7.8	17
858	Performance improvement of FSO communication systems using hybrid-ARQ protocols. Applied Optics, 2021, 60, 5553.	1.8	7
859	Quality of Transmission Estimation for Multi-User Free Space Optical Communication Using Supervised Machine Learning. , 2021, , .		4
860	A Binary Decomposition and Transmission Schemes for the Peak-Constrained IM/DD Channel. , 2021, , .		1
861	Optical adaptive power transmission using APC-EDFA for turbulence-tolerant FSO communications. Optics Express, 2021, 29, 23777.	3.4	4
862	Underwater Error-Free Data Transmission Based on Optical-Acoustic Cooperative Communication. , 2021, , .		0
863	New Trends in Stochastic Geometry for Wireless Networks: A Tutorial and Survey. Proceedings of the IEEE, 2021, 109, 1200-1252.	21.3	54
864	Design of multi-beam free space optical communication system for mitigation of atmospheric and geometric nonlinearities. Journal of Optics (India), 2021, 50, 664.	1.7	7
865	Block Error Performance of PAM or PPM SIMO FSO Links over Strong Turbulence Channels. , 2021, , .		0
866	Experimental Demonstration of 3 Ã— 3 MIMO LED-to-LED Communication Using RGB Colors. Sensors, 2021, 21, 4921.	3.8	6
867	Frame Synchronization for FSO Links With Unknown Signal Amplitude and Noise Power. IEEE Wireless Communications Letters, 2021, 10, 1498-1502.	5.0	5
868	A multi-hop free space optical link based on a regenerative relay. AEJ - Alexandria Engineering Journal, 2022, 61, 1459-1467.	6.4	10
869	Experimental Attenuation Coefficient Estimation for FSO Links over Maritime Area During Summer Time. , 2021, , .		1
870	Clustering Based Diversity Improving Transmit Laser Selection Schemes Using Quantized Feedback for FSO System. IEEE Transactions on Vehicular Technology, 2021, 70, 6855-6868.	6.3	7
871	Review on Free-Space Optical Communications for Delay and Disruption Tolerant Networks. Electronics (Switzerland), 2021, 10, 1607.	3.1	2
872	Capacity of underwater optical wireless communication systems over salinity-induced oceanic turbulence channels with ISI. Optics Express, 2021, 29, 23142.	3.4	14
873	Secrecy Probability of a NOMA based FSO-RF Network with Amplify-and-Forward Relaying. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
874	Modeling and Spatial Diversity-Based Receiving Improvement of In-Flight UAV FSO Communication Links. Applied Sciences (Switzerland), 2021, 11, 6365.	2.5	12
875	Cost-Efficient Hybrid WDM-MDM-Ro-FSO System for Broadband Services in Hospitals. Frontiers in Physics, 2021, 9, .	2.1	11
876	Ultraviolet communication technique and its application. Journal of Semiconductors, 2021, 42, 081801.	3.7	34
877	Developing Cost-Effective and High-Speed 40ÂGbps FSO Systems Incorporating Wavelength and Spatial Diversity Techniques. Frontiers in Physics, 2021, 9, .	2.1	11
878	Performance Enhancement of 3â€‰Ã—â€‰20 Gbit/s MDM-Based OFDM-FSO System. Wireless Personal Communications, 2022, 122, 3137-3165.	2.7	9
879	Estimation of Visual Performance Enhancement with Spatial Filters for an Image Transmission over a Turbulent OWC Link. Wireless Personal Communications, 2022, 122, 523-541.	2.7	3
880	On the block error rate of FSO links with diversity over mixture gamma turbulence channels. Journal of Modern Optics, 2021, 68, 927-935.	1.3	1
881	Statistical Modeling of QoE metric for image transmission over weakly turbulent OWC channel. , 2021, , .		0
882	Channel prediction for intelligent FSO transmission system. Optics Express, 2021, 29, 27882.	3.4	8
883	A Passive Target Recognition Method Based on LED Lighting for Industrial Internet of Things. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	8
884	Design and performance analysis of spectral-efficient hybrid CPDM-CO-OFDM FSO communication system under diverse weather conditions. Journal of Optical Communications, 2024, 44, s1747-s1766.	4.7	12
885	Petahertz communication: Harmonizing optical spectra for wireless communications. Digital Communications and Networks, 2021, 7, 605-614.	5.0	13
886	On the scattering-induced fading for optical wireless links through seawater: statistical characterization and its applications. Optics Express, 2021, 29, 37101.	3.4	12
887	Spatial Jitter Influence on the Average BLER Performance of SIMO FSO Links over Atmospheric Turbulence Channels. Electronics (Switzerland), 2021, 10, 2033.	3.1	1
888	Performance Investigation of a High Data Rate Mode Division Multiplexed-Free Space Optics Link Under Harsh Weather Conditions. Frontiers in Physics, 2021, 9, .	2.1	8
889	Performance study of serial relay CC-OGSM-SD free space optical system based on M distribution model. Applied Optics, 2021, 60, 7696-7705.	1.8	2
890	Nonlinearity optimization in FSO transport system and generation of 24-GHz MW signal based on OADM scheme and external modulation technique. Optical and Quantum Electronics, 2021, 53, 1.	3.3	3
891	A comprehensive survey on hybrid wireless networks: practical considerations, challenges, applications and research directions. Optical and Quantum Electronics, 2021, 53, 1.	3.3	28

#	ARTICLE	IF	CITATIONS
892	Performance Analysis and Evaluation of Inter-Satellite Optical Wireless Communication System (IsOWC) from GEO to LEO at Range 45000 km. IEEE Photonics Journal, 2021, 13, 1-6.	2.0	13
893	Intensification of noise tolerance against Rayleigh backscattering for bidirectional 10 Gbps WDM-FSO network by employing dual band of OFDM signal. Results in Optics, 2021, 4, 100108.	2.0	5
894	Synchronization scheme of photon-counting underwater optical wireless communication based on PPM. Optics Communications, 2021, 495, 127024.	2.1	6
895	Performance of UAV-to-Ground FSO Communications with APD and Pointing Errors. Applied System Innovation, 2021, 4, 65.	4.6	8
896	UAV-Assisted Free Space Optical Communication System With Amplify-and-Forward Relaying. IEEE Transactions on Vehicular Technology, 2021, 70, 8926-8936.	6.3	21
897	Free-space optical communication with quasi-ring Airy vortex beam under limited-size receiving aperture and atmospheric turbulence. Optics Express, 2021, 29, 32580.	3.4	27
898	On the Performance of Mixed FSO-UWOC Dual-Hop Transmission Systems. IEEE Wireless Communications Letters, 2021, 10, 2041-2045.	5.0	21
899	Survey on Optical Wireless Communications-Based Services Applied to the Tourism Industry: Potentials and Challenges. Sensors, 2021, 21, 6282.	3.8	12
900	An energy-efficient recovery algorithm for the free space optical communications network via reflections. Optik, 2021, 241, 167045.	2.9	1
901	Intelligent Reflecting Surfaces for Free Space Optical Communication Systems. IEEE Transactions on Communications, 2021, 69, 6134-6151.	7.8	76
902	Performance Evaluation of a 4 Ã— 20-Gbps OFDM-Based FSO Link Incorporating Hybrid W-MDM Techniques. Frontiers in Physics, 2021, 9, .	2.1	18
903	Influence of Source Parameters on the Polarization Properties of Beams for Practical Free-Space Quantum Key Distribution. Entropy, 2021, 23, 1224.	2.2	0
904	Solar background noise mitigation using the orbital angular momentum mode in vertical FSO downlink transmissions. Optics Express, 2021, 29, 33312.	3.4	4
905	Non-line-of-sight optical information transmission through turbid water. Optics Express, 2021, 29, 39498.	3.4	9
906	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using automatic optoelectronic mixing of many modes. Nature Photonics, 2021, 15, 743-750.	31.4	45
907	Performance estimation of 100ÂGB/s hybrid SACOCDMA-FSO-MDM system under atmospheric turbulences. Optical and Quantum Electronics, 2021, 53, 1.	3.3	6
908	Demonstration of a Sub-Pixel Outdoor Optical Camera Communication Link. IEEE Latin America Transactions, 2021, 19, 1798-1805.	1.6	2
909	Performance analysis of an asymmetric two-hop amplify-and-forward relaying RFâ€"FSO system in a cognitive radio with partial relay selection. Optics Communications, 2022, 505, 127478.	2.1	10

#	Article	IF	Citations
910	Hovering UAV-Based FSO Communications: Channel Modelling, Performance Analysis, and Parameter Optimization. IEEE Journal on Selected Areas in Communications, 2021, 39, 2946-2959.	14.0	42
911	Disaster resilience of optical networks: State of the art, challenges, and opportunities. Optical Switching and Networking, 2021, 42, 100619.	2.0	16
912	On the secrecy capacity of hybrid FSO-mmWave links with correlated wiretap channels. Optics Communications, 2021, 499, 127252.	2.1	6
913	Simultaneous turbulence mitigation and channel demultiplexing using a single multi-plane light convertor for a free-space optical link with two 100-Gbit/s OAM channels. Optics Communications, 2021, 501, 127359.	2.1	7
914	4—10 Gbps Hybrid WDM-MDM FSO Transmission Link. Algorithms for Intelligent Systems, 2021, , 443-451.	0.6	3
915	Characterization of terrestrial FSO link performance for 850 and 1310Ânm transmission wavelengths. Journal of Optical Communications, 2024, 44, s1557-s1562.	4.7	3
916	Non-Mechanical Beam Steering and Adaptive Beam Control Using Variable Focus Lenses for Free-Space Optical Communications. Journal of Lightwave Technology, 2021, 39, 7600-7608.	4.6	21
917	Quantum Key Distribution Using Time-Gated SPADs over Turbid Underwater Channels. , 2021, , .		0
918	Adaptive-Combining-Based Hybrid FSO/RF Satellite Communication With and Without HAPS. IEEE Access, 2021, 9, 81492-81511.	4.2	36
919	Development and Performance Investigation of a Single-Channel 160ÂGbps Free Space Optics Transmission Link Using Higher Order Modulation Scheme. Wireless Personal Communications, 2021, 118, 663-678.	2.7	3
920	Experimental Investigation on Degradation of an Orbital- Angular-Momentum Beam Passing Through Dynamic Aerosol and Air-Water Interface for Air-to-Water Communications. , 2021, , .		1
921	Survey on 6G Frontiers: Trends, Applications, Requirements, Technologies and Future Research. IEEE Open Journal of the Communications Society, 2021, 2, 836-886.	6.9	294
922	Design of 320ÂGbps hybrid AMI-PDM-WDM FSO link and its performance comparison with traditional models under diverse weather conditions. Journal of Optical Communications, 2024, 44, s1901-s1910.	4.7	16
923	Communication systems of highspeed railway: A survey. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4189.	3.9	17
924	Mitigation of Haze Effects on Free Space Optical Communication Using Multibeam Technique. Advances in Intelligent Systems and Computing, 2020, , 175-183.	0.6	6
925	Discrete Markov chain model for transition analysis of optical scintillation in reflection-assisted free space optical links. Optics Communications, 2020, 475, 126261.	2.1	1
926	Secrecy performance of FSO communication systems with nonzero boresight pointing errors. IET Communications, 2021, 15, 155-162.	2.2	25
927	Performance enhancement of hybridSIM for optical wireless downlink communication with aperture averaging and receiver diversity. IET Communications, 2020, 14, 3194-3202.	2.2	5

#	ARTICLE	IF	CITATIONS
928	Mixed RF/FSO Relaying with Outdated Channel State Information. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	14.0	10
929	Diversity Order Results for MIMO Optical Wireless Communications. IEEE Wireless Communications Letters, 2018, 7, 74-77.	5.0	8
930	Correcting the Proximity Effect in Nanophotonic Phased Arrays. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 3503-3513.	4.4	6
931	Optical wireless data center networks: potentials, limitations, and prospects. , 2019, , .		15
932	Free-space optical communications with quantum cascade lasers. , 2019, , .		27
933	Performance of Free Space Optical Communication Link under Foggy Weather. Journal of Communications, 2019, , 518-523.	1.6	16
934	Scintillation index and BER performance for optical wave propagation in anisotropic underwater turbulence under the effect of eddy diffusivity ratio. Applied Optics, 2020, 59, 2551.	1.8	23
935	M-QAM signal transmission at the photonically generated K-band over thermal-induced turbulent FSO links with different turbulence distributions. Applied Optics, 2020, 59, 4997.	1.8	4
936	Analysis of scintillation effects along a 7â€‰â€‰km urban space laser communication path. Applied Optics, 2020, 59, 8418.	1.8	7
937	Sandstorm effect on experimental optical camera communication. Applied Optics, 2021, 60, 75.	1.8	14
938	Impact of nonzero boresight pointing errors on the performance of a relay-assisted free-space optical communication system over exponentiated Weibull fading channels. Applied Optics, 2016, 55, 7593.	2.1	9
939	Potentials of radial partially coherent beams in free-space optical communication: a numerical investigation. Applied Optics, 2017, 56, 2851.	2.1	10
940	Structure parameter of anisotropic atmospheric turbulence expressed in terms of anisotropic factors and oceanic turbulence parameters. Applied Optics, 2019, 58, 454.	1.8	5
941	Free-space transmission system in a tunable simulated atmospheric turbulence channel using a high-repetition-rate broadband fiber laser. Applied Optics, 2019, 58, 2635.	1.8	6
942	Laser communication pointing errors caused by bending deformation of the altitude axis of a T-shaped altitude-azimuth mount. Applied Optics, 2019, 58, 8141.	1.8	2
943	Numerical research on partially coherent flat-topped beam propagation through atmospheric turbulence along a slant path. Applied Optics, 2019, 58, 9443.	1.8	9
944	Hybrid two-level MPPMâ€"MDPSK modulation for high-speed optical communication networks. Applied Optics, 2019, 58, 9757.	1.8	5
945	M-ary phase-shift keying-based single-input-multiple-output free space optical communication system with pointing errors over a gammaâ€"gamma fading channel. Applied Optics, 2020, 59, 59.	1.8	9

#	Article	IF	Citations
946	A 100m/40Gbps 680-nm VCSEL-based LiFi transmission system. , 2016, , .		2
947	Suboptimal maximum likelihood detection of on–off keying for a wireless optical communication system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 798.	1.5	3
948	Roadmap to free space optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A184.	2.1	131
949	Mean irradiance profile of a Gaussian beam under random jitter. Optics Express, 2018, 26, 27472.	3.4	9
950	Asymptotic analysis of V-BLAST MIMO for coherent optical wireless communications in Gamma-Gamma turbulence. Optics Express, 2018, 26, 27931.	3.4	6
951	Performance of mode diversity reception of a polarization-division-multiplexed signal for free-space optical communication under atmospheric turbulence. Optics Express, 2018, 26, 28263.	3.4	38
952	High sensitivity active flat optics optical phased array receiver with a two-dimensional aperture. Optics Express, 2018, 26, 29983.	3.4	41
953	Fixed threshold on-off keying differential detection for satellite optical communications. Optics Express, 2019, 27, 1590.	3.4	10
954	Computer-vision–based intelligent adaptive transmission for optical wireless communication. Optics Express, 2019, 27, 7979.	3.4	9
955	Error performance of deep space optical communication with M-ary pulse position modulation over coronal turbulence channels. Optics Express, 2019, 27, 13344.	3.4	30
956	Experimental all-optical relay-assisted FSO link with regeneration and forward scheme for ultra-short pulse transmission. Optics Express, 2019, 27, 22127.	3.4	16
957	BER and channel capacity of a deep space FSO communication system using L-PPM-MSK-SIM scheme during superior solar conjunction. Optics Express, 2019, 27, 24610.	3.4	18
958	Performance analysis of FSO coherent BPSK systems over Rician turbulence channel with pointing errors. Optics Express, 2019, 27, 27062.	3.4	19
959	Ground-to-air FSO communications: when high data rate communication meets efficient energy harvesting with simple designs. Optics Express, 2019, 27, 34079.	3.4	30
960	Secure communication for FSO links in the presence of eavesdropper with generic location and orientation. Optics Express, 2019, 27, 34211.	3.4	30
961	Neural network decoder of polar codes with tanh-based modified LLR over FSO turbulence channel. Optics Express, 2020, 28, 1679.	3.4	10
962	Identifying structured light modes in a desert environment using machine learning algorithms. Optics Express, 2020, 28, 9753.	3.4	25
963	Real-Time VLLC-OFDM HD-SDI Video transmission system with TS-based SFO estimation. , 2017, , .		14

#	Article	IF	Citations
964	Secure Free-Space Optical Communication via Amplified Spontaneous Emission (ASE). , 2020, , .		2
965	Experimental investigation on the effect of wavelength on aperture averaging in FSO communications. Optics Letters, 2020, 45, 3063.	3.3	11
966	Demonstration of using two aperture pairs combined with multiple-mode receivers and MIMO signal processing for enhanced tolerance to turbulence and misalignment in a 10â€‰â€‰Gbit/s QPSK FSO link. Optics Letters, 2020, 45, 3042.	3.3	13
967	Free space laser telecommunication through fog. Optica, 2018, 5, 1338.	9.3	62
968	Time synchronization over a free-space optical communication channel. Optica, 2018, 5, 1542.	9.3	28
969	Enhanced photon communication through Bayesian estimation with an SNSPD array. Photonics Research, 2020, 8, 637.	7.0	14
970	Free space optics communication system design using iterative optimization. Journal of Optical Communications, 2024, 44, s1205-s1216.	4.7	19
971	Multiphysical sensing of light, sound and microwave in a microcavity Brillouin laser. Nanophotonics, 2020, 9, 2915-2925.	6.0	19
972	INVESTIGATION ON HYBRID WDM (DWDM+CWDM) FREE SPACE OPTICAL COMMUNICATION SYSTEM. ICTACT Journal on Communication Technology, 2015, 06, 1187-1192.	4.5	9
973	A Performance Comparison of Gigabit-Capable Backhauling Solutions for 5G Cellular Networks. Journal of Science and Technology Issue on Information and Communications Technology, 2017, 3, 38.	0.1	2
974	A Robust Real-Time Automatic Recognition Prototype for Maritime Optical Morse-Based Communication Employing Modified Clustering Algorithm. Applied Sciences (Switzerland), 2020, 10, 1227.	2.5	2
975	Experimental Setup to Validate the Effects of Major Environmental Parameters on the Performance of FSO Communication Link in Qatar. Applied Sciences (Switzerland), 2018, 8, 2599.	2.5	11
976	Asymptotic Performance Analysis of Free-Space Optical Links with Transmit Diversity. Journal of the Optical Society of Korea, 2016, 20, 451-463.	0.6	4
977	Centralized Relay Selection and Optical Filtering Based System Design for Reliable Free Space Optical Communication over Atmospheric Turbulence. International Journal of Computer Network and Information Security, 2020, 12, 27-42.	1.9	4
978	On the Capacity of Intensity-Modulation Direct-Detection Gaussian Optical Wireless Communication Channels: A Tutorial. IEEE Communications Surveys and Tutorials, 2022, 24, 455-491.	39.4	23
979	Generative Adversarial Network-based Channel Modeling for Free-Space Optical Communication. , 2021, , .		1
980	Hybrid MPPM-BB84 Quantum Key Distribution Over FSO Channel Considering Atmospheric Turbulence and Pointing Errors. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	11
981	Efficient NOMA Design Without Channel Phase Information Using Amplitude-Coherent Detection. IEEE Transactions on Communications, 2022, 70, 245-263.	7.8	3

#	ARTICLE	IF	CITATIONS
982	Resource allocation in a Quantum Key Distribution Network with LEO and GEO trusted-repeaters. , 2021, , .		8
983	Low complexity deep learning algorithms for compensating atmospheric turbulence in the free space optical communication system. IET Optoelectronics, 2022, 16, 93-105.	3.3	9
984	Performance Analysis of RIS-Assisted Mixed Dual-Hop FSO-RF Communication Systems over Exponentiated Weibull Channels. Security and Communication Networks, 2021, 2021, 1-7.	1.5	0
985	SMF/FSO integrated dual-rate reliable and energy efficient WDM optical access network for smart and urban communities. Optical and Quantum Electronics, 2021, 53, 625.	3.3	10
986	Performance analysis of mode division multiplexing-based free space optical systems for healthcare infrastructureâ€™s. Optical and Quantum Electronics, 2021, 53, 1.	3.3	19
987	Analytical performance evaluation of a 2ÂÃ—Â2 Alamouti STBC OFDM FSO- communication system over turbulent atmospheric channel. Optik, 2021, 248, 168124.	2.9	0
988	Orbital angular momentum of light for communications. Applied Physics Reviews, 2021, 8, .	11.3	137
989	Experimental Setup of a Blind Detection Algorithm for Free Space Optical Communication. , 2016, , .		0
990	Efficient Crosstalk Mitigation of a Free-Space Orbital Angular Momentum Multiplexed Communication Link by using Maximum Likelihood Detection. , 2016, , .		0
991	Free-space optical communication with a photon-number-resolving detector. , 2017, , .		0
992	Heart Rate Measurement Based on Event Timing Coding Observed by Video Camera. IEICE Transactions on Communications, 2017, E100.B, 926-931.	0.7	2
993	A friction compensating method based on data fusion in telescope controller design. , 2017, , .		0
994	Design of the telescope controller rejecting ground-based disturbance based on data fusion. , 2017, , .		0
995	Scintillation index of partially coherent flat-topped beams propagating on a slant path through atmospheric turbulence. , 2018, , .		0
996	Performance Analysis of ASK and PSK Modulation Based FSO System Using Coupler-Based Delay Line Filter under Various Weather Conditions. Optics and Photonics Journal, 2018, 08, 277-287.	0.4	8
997	Free Space Optical Communication System through Turbid Media with Pointing Errors. , 2018, , .		1
998	Experimental research of vibration compensation based on a fiberâ€"coupling optical communication system using FFT. , 2018, , .		0
999	Investigation between Performances of Free Space Optical Communication Links Under Atmospheric Turbulence. Journal of Communications, 2018, , 368-374.	1.6	4

#	ARTICLE	IF	CITATIONS
1000	On the Capacity of the Coherent MIMO Optical Wireless Communication System in Gamma-Gamma Turbulence. , 2018, , .		0
1001	LCoS-based Access Node for Bidirectional Optical Wireless Communications. , 2018, , .		1
1002	Independent components analysis for processing optical signals in support of multi-user communication. , 2018, , .		3
1003	The Performance Analysis of Phase Offset Estimation in Coherent FSO System. DEStech Transactions on Computer Science and Engineering, 2018, , .	0.1	0
1004	Availability Prediction Methods for Terrestrial Free-Space-Optical Link Under Tropical Climate. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 10, 224.	0.8	1
1005	Simulative experimental research on vibration compensation of satellite platform based on fiber-coupling using FFT-estimated method. , 2018, , .		0
1006	Laboratory demonstration of optimizing optical single sideband scheme to increase spectral efficiency in optical geostationary satellite feeder links. , 2018, , .		0
1007	On the Performance of Acousto Optical Modulatorsâ€"Free Space Optical Wireless Communication Systems over Negative Exponential Turbulent Channel. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 307-316.	0.3	0
1008	Anomalous pulse response of a ZnO film photoconductive detector. , 2019, , .		0
1009	Adaptive Detection Scheme for Free Space Optical Communication System under Atmospheric Turbulence. , 2019, , .		0
1010	Experimental Mitigation of Atmospheric Turbulence Effect using Pre-Channel Combining Phase Patterns for Uni- and Bidirectional Free-Space Optical Links with Two 100-Gbit/s OAM-Multiplexed Channels. , 2019, , .		2
1011	Investigation into Symbol Error Rate of Multilevel Differential Polarization Shift Keying with Estimation of Inclined Polarization Axes. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 168-176.	0.3	0
1012	How to Mitigate Turbulence Without Adaptive Optics. , 2019, , .		0
1013	Channel Measurements for Free Space Optical Communication. Journal of Communication and Information Systems, 2019, 34, 187-191.	0.3	1
1014	Experimental Investigation of Coherent All-Optical Relaying System Based on Spatial Light Modulator. , 2019, , .		0
1015	Temporal characterization of an urban horizontal atmospheric telecom channel. , 2019, , .		0
1016	Performance Analysis of FSO Systems Using DWT-OFDM in Different Weather Conditions. , 2019, , .		0
1017	Demonstration of Enhanced Tolerance to Turbulence and Misalignment of a 10-Gbit/s QPSK Free-Space Optical Link by Utilizing Two Aperture Pairs Combined With Detecting Multiple Modes. , 2019, , .		0

#	Article	IF	Citations
1018	Multiple access technique in a high-speed free-space optical communication link: independent component analysis. Optical Engineering, 2019, 58, 1.	1.0	7
1019	Free space optical non-orthogonal multiple access experimentation. , 2019, , .		5
1020	Imaging-based beam steering for free-space optical communication. Applied Optics, 2019, 58, D12.	1.8	10
1021	Performance Analysis of FSO Link in Log-Normal Channel Using Different Modulation Schemes. Advances in Intelligent Systems and Computing, 2020, , 143-155.	0.6	0
1022	Design and Implementation of Visible Light Communication based toys. Bulletin of Electrical Engineering and Informatics, 2019, 8, 960-969.	0.8	2
1023	Potential Future Aviation Communication Technologies. , 2019, , .		1
1024	Adaptive spatial-layout selection for massive multi-color visible light communications. Applied Optics, 2019, 58, 9786.	1.8	1
1025	C-band PS 4096QAM OFDM FSO Transmission with 6.98bit/s/Hz Net SE Based on Kramers-Kronig Detection. , 2020, , .		2
1026	The Effect of Atmosphere on FSO Communication at Two Optical Windows Under Weather Condition of Bhubaneswar City. Lecture Notes in Electrical Engineering, 2020, , 417-425.	0.4	0
1027	Secure Free-Space Optical Transmission of Y-00 Quantum Stream Cipher with 4096-Level Intensity Modulated Signals. , 2020, , .		1
1028	Determination of the Atmospheric Turbulence by the Analysis of the Optical Beam Deflection. , 2020, , .		0
1029	Efficient differential signalling with reduced background radiation for multiple aperture FSO communication systems. IET Communications, 2020, 14, 1037-1042.	2.2	0
1030	Experimental demonstration of encryption system using two-dimensional pattern for secure free-space optical communication. Japanese Journal of Applied Physics, 2020, 59, SOOA01.	1.5	0
1031	Comparison of carrier suppressed and quadrature bias point external modulation for 40 GHz millimeter-wave photonic generation using a 16-QAM signal with directly modulated laser. , 2020, , .		0
1032	Serially DF relayed hybrid FSO/MMW links with Weibull fading, M-turbulence and pointing errors. Optik, 2020, 216, 164531.	2.9	11
1033	A 2Ã—Â20ÂGbps hybrid MDM-OFDMâ€"based high-altitude platform-to-satellite FSO transmission system. Journal of Optical Communications, 2020, .	4.7	12
1034	Performance analysis of NRZ and RZ variants for FSO communication system under different weather conditions. Journal of Optical Communications, 2024, 44, s1197-s1204.	4.7	3
1036	Performance analysis of optical wireless communications with aperture averaging over exponentiated Weibull turbulence with pointing errors. Results in Optics, 2021, 5, 100171.	2.0	4

#	Article	IF	Citations
1037	Performance analysis of 40ÂGb/s free space optics transmission based on orbital angular momentum multiplexed beams. AEJ - Alexandria Engineering Journal, 2022, 61, 5203-5212.	6.4	50
1038	FSO: Issues, Challenges and Heuristic Solutions. Advances in Intelligent Systems and Computing, 2020, , 1162-1170.	0.6	0
1039	On the Performance of Hybrid FSO/RF System Over Generalized Fading Channels. , 2020, , .		1
1040	Lasercom optical-terminal performance testing platform. Optik, 2020, 224, 165521.	2.9	0
1041	Study of Performance Enhancement in Underwater Optical Wireless Communication System. , 2020, , .		3
1042	Performance analysis of adaptive combining based hybrid FSO/RF terrestrial communication. IET Communications, 2020, 14, 4057-4068.	2.2	7
1043	Performance optimisation for dualâ€hop hybrid FSO/RF system with selection combining. IET Optoelectronics, 2020, 14, 422-433.	3.3	3
1044	Towards 100 Mb/s Optical Wireless Communications Using a Silicon Photovoltaic Receiver. , 2020, , .		2
1045	Performance Analysis of SIMO-UWOC System. , 2020, , .		6
1046	6G Wireless Communications Networks: A Comprehensive Survey. IEEE Access, 2021, 9, 148191-148243.	4.2	157
1047	Noise Mitigation Using Adaptive Filtering Algorithm for Long-Range VLC System Based on FPGA. , 2020, , .		3
1048	High Efficient Modes Diversity Receive Scheme for Free Space Optical Communications under Random Angular Jitter. , 2020, , .		0
1049	Performance Analysis of FSO Links in Turbulent Atmosphere. Advances in Wireless Technologies and Telecommunication Book Series, 2020, , 100-156.	0.4	2
1050	Error Rate Performance Analysis of M-ary Coherent FSO Communications with Spatial Diversity in Strong Atmospheric Turbulence. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, , .	0.3	0
1051	Performance comparison of different OAM-based mode diversity schemes with coherent receipt under atmosphere turbulence. , 2020, , .		0
1052	Development of full duplex Laser based data and voice communication system bridging two IoT networks. , 2020, , .		0
1053	Beam Control and Tracking Techniques for Free-Space Optical Communications. , 2020, , .		0
1054	Simultaneous Turbulence Mitigation and Mode Demultiplexing using one MPLC in a Two-Mode 200-Gbit/s Free-Space OAM-Multiplexed Link. , 2020, , .		2

#	Article	IF	Citations
1055	Simulated Eavesdropper Detection in Free-Space Optics ON-OFF Keying with Deep Learning. , 2020, , .		0
1056	Elliptical-Aperture Multimode Diversity Reception for Free-Space Optics Communications Under Anisotropic Turbulence. , 2021, , .		1
1057	Experimental Demonstration of a 1-Gbit/s â€œPin-likeâ€•Low-Divergence Beam Using a Limited-Sized Receiver Aperture at Various Distances. , 2021, , .		0
1058	Design of An Autoencoder-based Underwater Optical Communication Transceiver in Attenuation Channel. , 2020, , .		0
1059	Developing concurrent coding: an unconventional encoding scheme applied to visible light communications. Optical Engineering, 2020, 59, 1.	1.0	0
1060	Pol-SK based WDM-FSO Communication System for Network Enhancement. , 2021, , .		2
1061	Diversity Combining Techniques in Indoor VLC communication. , 2021, , .		3
1062	Innovative relay selection and optimize power allocation for free space optical communication. Optical and Quantum Electronics, 2021, 53, 1.	3.3	1
1063	Dynamic aerosol and dynamic air-water interface curvature effects on a 2-Gbit/s free-space optical link using orbital-angular-momentum multiplexing. Nanophotonics, 2022, 11, 885-895.	6.0	5
1064	Optical analog-signal transmission and retrieval through turbid water. Applied Optics, 2021, 60, 10704.	1.8	7
1065	Adaptive turbulence compensation and fast auto-alignment link for free-space optical communications. Optics Express, 2021, 29, 40514.	3.4	17
1067	Blind Symbol Timing Estimation for Bandlimited Optical Intensity Channels. , 2020, , .		5
1068	Performance Analysis of Intensity Modulation Techniques in Atmospheric Turbulent Channels. Menoufia Journal of Electronic Engineering Research, 2020, 29, 15-21.	0.5	0
1069	Visual tracking for mobile optical wireless communications. Optics Express, 2020, 28, 31119.	3.4	6
1070	Polar coded probabilistic amplitude shaping for the free space optical atmospheric turbulence channel. Optics Express, 2020, 28, 33208.	3.4	10
1071	Performance analysis of different intensity modulation techniques over atmospheric turbulent free-space optical channels. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, C138.	1.5	4
1072	Turbulence mitigation in a 28ÂGHz radioâ€overâ€freeâ€space optics link using an integrated Machâ€"Zehnder interferometer and a diversity combining receiver. IET Communications, 2020, 14, 3373-3379.	2.2	1
1073	Group key agreement over free-space optical links. OSA Continuum, 2020, 3, 2525.	1.8	4

#	Article	IF	Citations
1074	Asymptotic bit error rate analysis of convergent underwater wireless optical communication-free-space optical system over combined channel model for different turbulence and weather conditions with pointing errors. Optical Engineering, 2020, 59, .	1.0	8
1075	2ÂÃ—Â20ÂGbit/s OFDM-based FSO transmission system for HAP-to-ground links incorporating mode division multiplexing with enhanced detection. Journal of Optical Communications, 2024, 44, s1285-s1295.	4.7	0
1076	Performances of BICM-ID system using CRSC code in optical transmissions. Journal of Optical Communications, 2024, 44, s1865-s1871.	4.7	0
1077	Resource Allocation via Model-Free Deep Learning in Free Space Optical Communications. IEEE Transactions on Communications, 2022, 70, 920-934.	7.8	5
1078	Green traffic backhauling in next generation wireless communication networks incorporating FSO/mmWave technologies. Computer Communications, 2022, 182, 223-237.	5.1	1
1079	The Secrecy Comparison of RF and FSO Eavesdropping Attacks in Mixed RF-FSO Relay Networks. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	13
1080	High-speed modulating retro-reflectors with optical phase conjugation compensation. Optics Communications, 2022, 507, 127629.	2.1	3
1081	Employing Non-Orthogonal Multiple Access for A Dual-Hop Relaying System With FSO/RF Links. , 2021, , .		4
1082	Channel Coding. Textbooks in Telecommunication Engineering, 2022, , 205-241.	0.2	0
1083	UWOC Networks. Textbooks in Telecommunication Engineering, 2022, , 269-294.	0.2	0
1084	Modulation Schemes. Textbooks in Telecommunication Engineering, 2022, , 177-204.	0.2	0
1085	Up to 6 Gbps Mid-Infrared Free-Space Transmission with a Directly Modulated Quantum Cascade Laser. , 2021, , .		3
1086	Experimental Demonstration of a 100-Gbit/s 16-QAM Free-Space Optical Link Using a Structured Optical "Bottle Beam" to Circumvent Obstructions. , 2021, , .		1
1087	Amplitude Constrained Poisson Noise Channel: Properties of the Capacity-Achieving Input Distribution. , 2021, , .		0
1088	Investigation of Visible Light Communication in an Indoor Environment: A Case Study of Afe Babalola Universityâ€™s Communication Laboratory. , 2021, , .		0
1089	Intelligent Reflecting Surface Assisted Free-Space Optical Communications. IEEE Communications Magazine, 2021, 59, 57-63.	6.1	49
1090	A Review on LiFi Network Research: Open Issues, Applications and Future Directions. Applied Sciences (Switzerland), 2021, 11, 11118.	2.5	18
1091	Secrecy Performance of Mixed SIMO-FSO/SIMO-RFNetworks with Energy Harvesting. Applied Optics, 2021, 60, 11010-11017.	1.8	0

#	Article	IF	Citations
1092	Free-space optical communication: From space to ground and ocean. IEEE Potentials, 2021, 40, 18-23.	0.3	3
1093	Investigation of RS coded DP-16-QAM DWDM FSO link under various atmospheric conditions. Optical and Quantum Electronics, 2022, 54, 1.	3.3	1
1094	Cognitive RFâ€"FSO Fronthaul Assignment in Cell-Free and User-Centric mMIMO Networks. IEEE Transactions on Mobile Computing, 2023, 22, 2537-2550.	5.8	3
1095	Direct Modulation and Free-Space Transmissions of up to 6 Gbps Multilevel Signals With a 4.65-mum Quantum Cascade Laser at Room Temperature. Journal of Lightwave Technology, 2022, 40, 2370-2377.	4.6	16
1096	Demonstration of Channel-Predictable Free Space Optical Communication System Using Machine Learning. , 2021, , .		6
1097	User-Centric Cell-Free Massive MIMO Networks: A Survey of Opportunities, Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2022, 24, 611-652.	39.4	115
1098	Unified Performance Analysis of Reconfigurable Intelligent Surface Empowered Free-Space Optical Communications. IEEE Transactions on Communications, 2022, 70, 2575-2592.	7.8	22
1099	Performance of Dual-Hop Relaying for OWC System Over Foggy Channel With Pointing Errors and Atmospheric Turbulence. IEEE Transactions on Vehicular Technology, 2022, 71, 3776-3791.	6.3	10
1100	Retrofitting FSO Systems in Existing RF Infrastructure: A Non-Zero-Sum Game Technology. IEEE Open Journal of the Communications Society, 2021, 2, 2597-2615.	6.9	14
1101	A Closed-Form Approximate Expression for the BEP of BDPSK Signal in Log-Normal SISO FSO Communication System. Journal of Lightwave Technology, 2022, 40, 2274-2282.	4.6	1
1102	Performance enhancement of FSO based multi carrier system using DP-QPSK and Manchester coding in weak to strong turbulence regime. Optical and Quantum Electronics, 2022, 54, 1.	3.3	2
1103	A contemporary survey on free space optical communication: Potentials, technical challenges, recent advances and research direction. Journal of Network and Computer Applications, 2022, 200, 103311.	9.1	86
1104	Statistical features of an electromagnetic Gaussianâ€"Schell model beam propagating through a smoke aerosol environment. Applied Optics, 2022, 61, 1125.	1.8	2
1105	Demonstration of an optical phase conjugation based dualâ€hop PDMâ€QPSK freeâ€space optical communication link. Electronics Letters, 0, , .	1.0	0
1106	Investigations on hybrid wavelength-mode-orthogonal frequency-division multiplexing scheme based free space optical transmission system under varying atmospheric conditions. Optical and Quantum Electronics, 2022, 54, 1.	3.3	4
1107	Performance enhancement of FSO communication system using machine learning for 5G/6G and IoT applications. Optik, 2022, 252, 168430.	2.9	10
1108	Influence of refractive index accurate model of supersonic vehicle window flow field on aero-optical characteristics. Optik, 2022, 252, 168524.	2.9	3
1109	Performance of Opportunistic Beam Selection for OWC System Under Foggy Channel with Pointing Error. IEEE Communications Letters, 2020, 24, 2029-2033.	4.1	6

#	ARTICLE	IF	CITATIONS
1110	Autoencoder for Optical Wireless Communication System in Atmospheric Turbulence. , 2020, , .		5
1111	Experimental Investigation of Pointing Errors on Drone-based FSO Systems. , 2020, , .		2
1112	Non-Orthogonal Multiple Access for Terahertz Communication Networks. , 2020, , .		4
1113	Topology for Robust RF/FSO Backhauling under Random Jamming Attacks and Adversary Weather Conditions. , 2020, , .		3
1114	Machine to Machine Based on Visible Light Communication for IoTs. , 2020, , .		5
1115	A Compact Angle-of-Arrival Tracking System for Free-Space Optical Communication Systems. , 2020, , .		3
1116	Ergodic Capacity Analysis for FSO Communications with UAV-Equipped IRS in the Presence of Pointing Error. , 2020, , .		14
1117	Simplified Performance Analysis of OWC System Over Atmospheric Turbulence with Pointing Error. , 2020, , .		0
1118	Free-Space Data Transmission with Pulse Seeded Supercontinuum Based Partially Coherent Beams in a Tunable Turbulent Channel. , 2020, , .		0
1119	Beam Control and Tracking Techniques for High- Altitude Airborne Free-Space Optical Communication Systems. , 2020, , .		5
1120	Performance Analysis of DF based Mixed Triple Hop RF-FSO-UWOC Cooperative System. , 2020, , .		10
1122	Effect of Atmospheric Weather Condition on the performance of FSO. , 2020, , .		4
1123	64-QAM LTE signal transmission at 25 GHz over hybrid SSMF and non-uniform turbulent FSO channel. , 2020, , .		0
1124	Hybrid FSO/MMW Communication System with Active Link Switching based on Weather Conditions. , 2021, , .		0
1125	Secrecy Performance Analysis for UAV-based FSO Communication System. , 2021, , .		0
1126	Laser Charging for UAV-based FSO-RF Communication Systems. , 2021, , .		0
1127	Performance Analysis of Dual Link RF and RF - FSO Transmission System. , 2021, , .		0
1128	Adaptive Probabilistic Shaping Using Polar Codes for FSO Communication. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	5

#	Article	IF	Citations
1129	A two-way 224-Gbit/s PAM4-based fibre-FSO converged system. Scientific Reports, 2022, 12, 360.	3.3	6
1130	Short-distance equivalent test of acquisition, pointing, and tracking process for space laser communication. Applied Optics, 2022, 61, 721.	1.8	3
1131	100-m/3-Gbps underwater wireless optical transmission using a wideband photomultiplier tube (PMT). Optics Express, 2022, 30, 2326.	3.4	33
1132	Researching pointing error effect on laser linewidth tolerance in space coherent optical communication systems. Optics Express, 2022, 30, 5769.	3.4	6
1133	Outage Analysis of Relay-Based Dual-Hop Hybrid FSO-mmWave Systems. IEEE Access, 2022, 10, 2895-2907.	4.2	1
1134	Error Rates of Arbitrary Order Optical Wireless Pulse-Position Modulation: An Efficient Approach. SSRN Electronic Journal, 0, , .	0.4	0
1135	Timing Synchronization and Channel Estimation in Free-Space Optical OOK Communication Systems. IEEE Transactions on Communications, 2022, 70, 1901-1912.	7.8	4
1136	Channel Characterization of IRS-Based Visible Light Communication Systems. IEEE Transactions on Communications, 2022, 70, 1913-1926.	7.8	19
1137	High-concentration Er^{3+} ion singly doped $GaTaO_4$ single crystal for promising all-solid-state green laser and solid-state lighting applications. CrystEngComm, 2022, 24, 818-827.	2.6	4
1138	Coupled Tamm plasmon polaritons induced narrow bandpass filter with ultra-wide stopband. Nano Research, 2022, 15, 4563-4568.	10.4	13
1139	Investigating Wireless Optical Communication Systems for Änter Satellite Communication Using QPSK Modulation Technique. Algorithms for Intelligent Systems, 2022, , 849-856.	0.6	4
1140	Efficient channel modeling of structured light in turbulence using generative adversarial networks. Optics Express, 2022, 30, 7238.	3.4	4
1141	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link Using Pilot-Assisted Optoelectronic Beam Mixing. Journal of Lightwave Technology, 2022, 40, 588-596.	4.6	14
1142	Image information transfer with petal-like beam lattices encoding/decoding. Optics Communications, 2022, 510, 127931.	2.1	5
1143	Recent Trends in Underwater Visible Light Communication (UVLC) Systems. IEEE Access, 2022, 10, 22169-22225.	4.2	72
1144	On the Secrecy Capacity of Hybrid FSO-mmWave Wiretap Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 4073-4086.	6.3	7
1145	On the Capacity of MISO Optical Intensity Channels With Per-Antenna Intensity Constraints. IEEE Transactions on Information Theory, 2022, 68, 3920-3941.	2.4	4
1146	UAV-Assisted RF/FSO Relay System for Space-Air-Ground Integrated Network: A Performance Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 6211-6225.	9.2	35

#	Article	IF	Citations
1147	Physical layer security in MIMO hybrid FSO-mmWave systems: A learning-based link selection approach. Optics Communications, 2022, 512, 128028.	2.1	0
1149	Performance analysis of optical spatial modulation over a correlated gamma–gamma turbulence channel. Applied Optics, 2022, 61, 2025.	1.8	5
1150	Design and Analysis of Commercially Viable Free-Space Optical Communication Link for Diverse Beam Divergence Profiles. Frontiers in Physics, 2021, 9, .	2.1	1
1151	SPAD-Based Optical Wireless Communication With Signal Pre-Distortion and Noise Normalization. IEEE Transactions on Communications, 2022, 70, 2593-2605.	7.8	9
1153	Performance Analysis of Mixed PLC-FSO Dual-Hop Communication Systems. IEEE Internet of Things Journal, 2022, 9, 19307-19317.	8.7	9
1154	Improved Distributed Switch and Stay(IDSS) protocol for Amplify and Forward(AF) Relay-Assisted Free-Space Optical communication system. , 2022, , .		0
1155	Performance Analysis of FSO Systems Over a Lognormal-Rician Turbulence Channel With Generalized Pointing Errors. Journal of Lightwave Technology, 2022, 40, 4206-4216.	4.6	6
1156	Revolutionizing Optical Wireless Communications via Smart Optics. IEEE Open Journal of the Communications Society, 2022, 3, 654-669.	6.9	9
1157	The Research on Transmission Effect of Different Pulse Shapes in MPPM. , 2022, , .		1
1158	Improved Buffer-Aided Selective Relaying for Free Space Optical Cooperative Communications. IEEE Transactions on Wireless Communications, 2022, 21, 6877-6889.	9.2	4
1159	Lambertian Luminous Intensity Radiation Pattern Analysis in OLOS Indoor Propagation for Better Connectivity. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	1.2	1
1160	Performance Analysis of Mixed MIMO RF/FSO DF Relaying Based on Globally Coupled Low Density Parity Check (GC-LDPC) Codes. , 2022, , .		0
1161	Performance improvement of mode division multiplexing free space optical communication system through various atmospheric conditions with a decision feedback equalizer. Cogent Engineering, 2022, 9, .	2.2	17
1162	A survey of optical wireless technologies: practical considerations, impairments, security issues and future research directions. Optical and Quantum Electronics, 2022, 54, 1.	3.3	14
1163	Performance analysis of DP-QPSK with CO-OFDM using OSSB generation. Wireless Networks, 2022, 28, 1719-1730.	3.0	8
1164	Analysis of hybrid FSO/RF communication system under the effects of combined atmospheric fading and pointing errors. Optical and Quantum Electronics, 2022, 54, 1.	3.3	4
1165	Optical space communication. Review. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2022, 25, 68-75.	1.0	1
1166	Enhanced spectrum slicing: wavelength division multiplexing approach for mitigating atmospheric attenuation in optical communication. Optical and Quantum Electronics, 2022, 54, 1.	3.3	6

#	Article	IF	Citations
1167	Availability analysis of a ship-to-ground FSO link. Journal of Optical Communications and Networking, 2022, 14, 339.	4.8	2
1168	Modulation Format Identification in a Satellite to Ground Optical Wireless Communication Systems Using a Convolution Neural Network. Applied Sciences (Switzerland), 2022, 12, 3331.	2.5	6
1169	Methods of Atmospheric Coherence Length Measurement. Applied Sciences (Switzerland), 2022, 12, 2980.	2.5	3
1170	Mid-wave and long-wave infrared transmitters and detectors for optical satellite communications—a review. Journal of Optics (United Kingdom), 2022, 24, 043002.	2.2	22
1171	Cooperative Terrestrial-Underwater Wireless Optical Links by Using an Amplify-and-Forward Strategy. Sensors, 2022, 22, 2464.	3.8	7
1172	Parameter estimation of MIMO FSO systems using saddlepoint approximation. Journal of Modern Optics, 2022, 69, 450-461.	1.3	1
1174	A Study of Error Reduction in Optical Triangulation for Short-Range Intervehicle Positioning. IEEE Photonics Journal, 2022, 14, 1-12.	2.0	3
1176	FSO Path Loss Model Based on the Visibility. IEEE Photonics Journal, 2022, 14, 1-9.	2.0	13
1177	4â€‰Ã—â€‰2â€‰Ã—â€‰20 Gbit/s-40 GHz Hybrid Spectrum-Sliced WDM-MDM Based Radio over FSO Transmission Link Under the Effect of Atmospheric Turbulence. Wireless Personal Communications, 2022, 125, 2737-2752.	2.7	2
1178	Intelligent Traffic Engineering (TE) system for rural broadband. Computer Networks, 2022, 208, 108888.	5.1	0
1179	Performance comparisons between Avalanche and PIN photodetectors for use in underwater optical wireless communication systems. , 2021, , .		2
1180	Free Space Optical Communication System Based on the Combination of WDM and Polarization Multiplexing. , 2021, , .		0
1181	Defocal Lens Assembly for Multi-Element Full-Duplex Free Space Optical Transceiver. , 2021, , .		0
1182	On The Performance Analysis of hybrid FSO/RF Communication system in Relay Networks. , 2021, , .		1
1183	Optical-Radio Hybrid Technology in Multilayer Non-Terrestrial Telecommunications. , 2021, , .		0
1184	Millimeter-Wave Transmission Technologies over Fiber/FSO for 5G+ Networks. , 2021, , .		2
1185	Performance Analysis of Mixed MIMO-RF/MIMO-FSO DF Relaying Using Globally Coupled Low Density Parity Check (GC-LDPC) Codes and Diversity Techniques. , 2021, , .		0
1186	Atmospheric Turbulence Identification in a multi-user FSOC using Supervised Machine Learning. , 2021, , .		0

#	Article	IF	Citations
1187	Performance Analysis of Mixed Underwater and Terrestrial OWC Systems Over Foggy Weather. , 2021, , .		1
1188	FSO performance analysis of a metro city in different atmospheric conditions. Journal of Optical Communications, 2021, .	4.7	1
1189	Reliable Optical Receiver for Highly Dynamic Wireless Channels: An Experimental Demonstration. , 2021, , .		0
1190	Review of fibreless optical communication technology: history, evolution, and emerging trends. Journal of Optical Communications, 2021, .	4.7	6
1191	Performance analysis of EDFA-based all-optical relaying FSO-CDMA wiretap channel. , 2021, , .		1
1192	The CRLB Analysis for Target Localization Based on UAV Swarms. , 2021, , .		1
1193	Intersatellite Laser Link Planning for Reliable Topology Design in Optical Satellite Networks: A Networking Perspective. IEEE Transactions on Network and Service Management, 2022, 19, 2612-2624.	4.9	8
1194	Joint Impact of Channel Estimation Errors and Pointing Errors on FSO Communication Systems Over $\mathcal{F}$ Turbulence Channel. Journal of Lightwave Technology, 2022, 40, 4555-4561.	4.6	6
1195	Experimental Demonstration of a 100-Gbit/s 16-QAM Free-Space Optical Link Using a Structured Optical â€œBottle Beamâ€to Circumvent Obstructions. Journal of Lightwave Technology, 2022, 40, 3277-3284.	4.6	2
1196	Performance of Transmit Aperture Selection to Mitigate Jamming. Applied Sciences (Switzerland), 2022, 12, 2228.	2.5	3
1197	Agile Beaconless Laser Beam Alignment with Adaptive Mm-Wave Beamforming for Inter CubeSat Communication. , 2022, , .		2
1198	BER Performance Improvement using Spatial Diversity Combining in an Atmospheric Turbulent Channel with Satellite Vibration-Induced Fading. , 2022, , .		0
1199	Investigation of Figure of Merits for 256qam-Fso Link at Diverse Climate Conditions. SSRN Electronic Journal, 0, , .	0.4	0
1200	Demonstration of Turbulence Resilient Self-Coherent Free-Space Optical Communications Using a Pilot Tone and an Array of Smaller Photodiodes for Bandwidth Enhancement. , 2022, , .		2
1201	Approaches to Array-Type Optical IRSs: Schemes and Comparative Analysis. Journal of Lightwave Technology, 2022, 40, 3576-3591.	4.6	7
1202	Design and Prototype of Auto-Track Long-Range Free-Space Optical Communication. , 2022, , .		0
1203	Modulating Retroreflector Based Free Space Optical Link for UAV-to-Ground Communications. IEEE Transactions on Wireless Communications, 2022, 21, 8631-8645.	9.2	10
1204	Highly Reliable Outdoor 400G FSO Transmission Enabled by ANN Channel Estimation. , 2022, , .		2

#	ARTICLE	IF	CITATIONS
1205	Experimental Demonstration of 55-m / 2-Gbps Underwater Wireless Optical Communication Using SiPM Diversity Reception and Nonlinear Decision-Feedback Equalizer. IEEE Access, 2022, 10, 47814-47823.	4.2	12
1206	Tunable Bessel Beam Shaping for Robust Atmospheric Optical Communication. Journal of Lightwave Technology, 2022, 40, 5097-5106.	4.6	7
1207	Nonterrestrial Communications Assisted by Reconfigurable Intelligent Surfaces. Proceedings of the IEEE, 2022, 110, 1423-1465.	21.3	30
1208	On the Performance of a HAPS Assisted AF Based Dual-hop FSO Communication System. , 2022, , .		2
1209	Calculation of Solar Noise in Selected Underwater Depths. , 2022, , .		0
1210	1 Gbps visible light communication system utilizing Machâ€"Zehnder Modulator. Journal of Optics (India), 0, , .	1.7	2
1211	Error rates of arbitrary order optical wireless pulse-position modulation: An efficient approach. Physical Communication, 2022, , 101742.	2.1	0
1212	An Atmospheric Turbulence Compensation Algorithm Based on FSM-DM Cascaded AO Architecture for FSO Communications. Network, 2022, 2, 270-288.	2.4	0
1213	AS-SPGD algorithm to improve convergence performance for fiber coupling in free space optical communication. Optics Communications, 2022, 519, 128397.	2.1	4
1214	Effect of partial coherence on signal-to-noise ratio performance of free space optical communication system in weak turbulence. Optics Communications, 2022, 518, 128395.	2.1	4
1215	High Speed and High Sensitivity InGaAs/InAlAs Single Photon Avalanche Diodes for Photon Counting Communication. Journal of Lightwave Technology, 2022, 40, 5245-5253.	4.6	6
1216	Operation and management signal detection using quadrant photodiode and auxiliary management communication channel for simple and stable free-space optical communication systems. IEICE Communications Express, 2022, 11, 538-542.	0.4	0
1217	Joint Frame Detection and Channel Parameter Estimation for OOK Free-Space Optical Communications. IEEE Transactions on Communications, 2022, 70, 4731-4744.	7.8	3
1218	Link-Layer Retransmission-Based Error-Control Protocols in FSO Communications: A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 1602-1633.	39.4	12
1219	Estimation of FSO Path Length at Mid-IR Wavelength. , 2022, , .		0
1220	Investigation of a coherent dual-polarized 16-QAM 16-channel WDM FSO gammaâ€"gamma fading system under various atmospheric losses. Journal of Modern Optics, 2022, 69, 665-676.	1.3	2
1221	Design and Optimization of Protograph LDPC-Coded Multipulse PPM Systems Over Poisson Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 9586-9601.	6.3	2
1223	A Novel System of Mixed RF/FSO UAV Communication Based on MRR and RIS by Adopting Hybrid Modulation. Photonics, 2022, 9, 379.	2.0	3

#	Article	IF	Citations
1224	Design and Analysis of an Optical–Acoustic Cooperative Communication System for an Underwater Remote-Operated Vehicle. Applied Sciences (Switzerland), 2022, 12, 5533.	2.5	5
1225	Optimal Prediction of Atmospheric Turbulence by Means of the Weather Research and Forecasting Model. Publications of the Astronomical Society of the Pacific, 2022, 134, 055002.	3.1	5
1226	Meta-learning-based optical vector beam high-fidelity communication under high scattering. Optics Letters, 0, , .	3.3	3
1227	Cost Effective Hybrid FSO-Wireless Architecture for Broadband Access Network. , 2022, , .		1
1228	Optical turbulence measurements and modeling over Monterey Bay. Optics Communications, 2022, 520, 128508.	2.1	6
1229	Performance and Channel Modeling Optimization for Hovering UAV-Assisted FSO Links. Journal of Lightwave Technology, 2022, 40, 4999-5012.	4.6	2
1230	Dynamic Adaptive Beam Control System Using Variable Focus Lenses for Laser Inter-Satellite Link. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	7
1231	Safety Analysis for Laser-Based Optical Wireless Communications: A Tutorial. Proceedings of the IEEE, 2022, 110, 1045-1072.	21.3	13
1232	On the Performance of Multi - Hop Radio and Optical Wireless Relaying Systems. , 2022, , .		0
1233	A Hybrid RF-FSO Offloading Scheme for Autonomous Industrial Internet of Things. , 2022, , .		1
1234	Low Power FPGA Implementation of a Smart Building Free Space Optical Communication System. Photonics, 2022, 9, 432.	2.0	2
1235	Demonstration of turbulence mitigation in a 200-Gbit/s orbital-angular-momentum multiplexed free-space optical link using simple power measurements for determining the modal crosstalk matrix. Optics Letters, 0, , .	3.3	4
1236	Investigations on challenges faced by hybrid FSO/RF high-speed networks. Journal of Optics (India), 2023, 52, 924-934.	1.7	4
1237	Multibeam FSO-based 5G communication system using M-ary DPSK encoder. Journal of Optical Communications, 2021, .	4.7	1
1238	Vehicle-To-Anything: The Trend of Internet of Vehicles in Future Smart Cities. , 0, , .		1
1240	Design and investigation of EDFA-based all-optical relaying FSO-CDMA wiretap channel. Optical and Quantum Electronics, 2022, 54, .	3.3	2
1241	Estimation and performance analysis of multiple incident beam misalignment in spatial diversity based FSO transmissions. Optics Communications, 2022, 521, 128618.	2.1	5
1242	Direct generation of 2D arrays of random numbers for high-fidelity optical ghost diffraction and information transmission through scattering media. Optics and Lasers in Engineering, 2022, 158, 107141.	3.8	11

#	Article	IF	Citations
1243	Optical Wireless Channel Reciprocity-Based Temporal Power Allocation Technique for Fso Communications. SSRN Electronic Journal, 0, , .	0.4	0
1244	Mixed THz/FSO Relaying Systems: Statistical Analysis and Performance Evaluation. IEEE Transactions on Wireless Communications, 2022, 21, 10996-11010.	9.2	15
1245	Capacity Bounds for the Two-User IM/DD Interference Channel. IEEE Transactions on Communications, 2022, 70, 5960-5974.	7.8	3
1246	A Survey on Advances and Future Prospects of Modulation Schemes for VLC. , 2022, , .		0
1247	Design and Implementation of DWDM-FSO system for Tbps data rates with different atmospheric Attenuation. , 2022, , .		5
1248	Hybrid FSO/RF networks: A review of practical constraints, applications and challenges. Optical Switching and Networking, 2023, 47, 100697.	2.0	27
1249	Survey on acquisition, tracking and pointing (ATP) systems and beam profile correction techniques in FSO communication systems. Journal of Optical Communications, 2020, .	4.7	3
1250	High signal-noise ratio avalanche photodiodes with dynamic biasing technology for laser radar applications. Optics Express, 2022, 30, 26484.	3.4	2
1251	9.14-Mbps 64-PPM UWOC system based on a directly modulated MOPA with pre-pulse shaping and a high-sensitivity PMT with analog demodulation. Optics Express, 2022, 30, 30233.	3.4	4
1252	Experimental demonstration: Differential detection of 10 Gbps optical OOK signal over turbulent channel. Optik, 2022, 266, 169564.	2.9	3
1253	A survey on the integration of visible light communication with power line communication: Conception, applications and research challenges. Optik, 2022, 266, 169582.	2.9	13
1254	LiFi and Hybrid WiFi/LiFi indoor networking: From theory to practice. Optical Switching and Networking, 2023, 47, 100699.	2.0	10
1255	Performance Analysis of Mixed Rayleigh and F Distribution RF-FSO Cooperative Systems with AF Relaying. Electronics (Switzerland), 2022, 11, 2299.	3.1	2
1256	BIDIRECTIONAL TRANSMISSION OF HIGH-SPEED 704 Gbps USING 64 CHANNELS FOR LONG REACH DWDM-PON-PDCF SYSTEM. Telecommunications and Radio Engineering (English Translation of)		0
1257	Dual-wavelength self-mode-locked semiconductor disk laser. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 204202.	0.5	1
1258	A Link Quality Indicator for Topology Control in MEMS-based FSO Networks. , 2022, , .		0
1259	Design and Evaluation of Optimum Receiver for Turbulent Underwater Optical Wireless Channel. , 2022, , .		0
1260	Performance of V2N Communication System with Mixed RF and Hybrid FSO/RF Transmissions. , 2022, , .		2

#	Article	IF	Citations
1261	UVDAR-COM: UV-Based Relative Localization of UAVs with Integrated Optical Communication. , 2022, , .		4
1262	The Performance and Comparision of Turbulence Compensation between Adaptive Optics with and without WFS under Dynamic Turbulence. , 2022, , .		0
1263	Multi-Access Channel Based on Quantum Detection in Wireless Optical Communication. Entropy, 2022, 24, 1044.	2.2	2
1264	Performance Analysis of a Vertical FSO Link with Energy Harvesting Strategy. Sensors, 2022, 22, 5684.	3.8	5
1265	Inter-satellite optical wireless communication (IsOWC) systems challenges and applications: a comprehensive review. Journal of Optical Communications, 2021, .	4.7	5
1267	Performance Analysis of Dual-Beam Free Space Optical Communication Link under Dust and Rain Conditions. Wireless Communications and Mobile Computing, 2022, 2022, 1-15.	1.2	2
1269	Detection of the angle-of-arrival of an optical beam by means of interference optical filters for free-space optical communication. Applied Optics, 2022, 61, 7000.	1.8	0
1270	The Polar Code Construction Method in Free Space Optical Communication. Photonics, 2022, 9, 599.	2.0	1
1271	Experimental demonstration of a â€œpin-likeâ€ low-divergence beam in a 1-Gbit/s OOK FSO link using a limited-size receiver aperture at various propagation distances. Optics Letters, 2022, 47, 4215.	3.3	6
1272	An intelligent reflecting surfaces based iterative PhCâ€MIMO system for atmospheric optical channels. Microwave and Optical Technology Letters, 0, , .	1.4	0
1273	Probabilistically shaped polar-coded MIMO-FSO communication systems with spatially correlated fading. Optics Express, 2022, 30, 30980.	3.4	1
1274	Organic <scp>Nearâ€Infrared</scp> Luminescent Materials Based on Excited State Intramolecular Proton Transfer Process^{â€}. Chinese Journal of Chemistry, 2022, 40, 2468-2481.	4.9	16
1275	Performance evaluation of aeronautical uplink/downlink free-space optical communication system with adaptive optics over gamma-gamma turbulence channel. Journal of Optics (United Kingdom), 0, , .	2.2	1
1276	Ring focus reflector design for topological charge multiplexing based on a perfect vortex beam. Applied Optics, 2022, 61, 7532.	1.8	1
1277	Design and performance analysis of WDM-FSO communication system using Polarization Shift Keying. Journal of Optical Communications, 2022, .	4.7	1
1278	Performance analysis of 400 Gbit/s hybrid space division multiplexingâ€polarization division multiplexingâ€coherent detectionâ€orthogonal frequency division multiplexingâ€based freeâ€space optics transmission system. International Journal of Communication Systems, 2022, 35, .	2.5	5
1279	Deepâ€Ultraviolet LEDs Incorporated with SiO₂â€Based Microcavities Toward Highâ€Speed Ultraviolet Light Communication. Advanced Optical Materials, 2022, 10, .	7.3	18
1280	Marine Internet of Things Platforms for Interoperability of Marine Robotic Agents: An Overview of Concepts and Architectures. Journal of Marine Science and Engineering, 2022, 10, 1279.	2.6	11

#	Article	IF	Citations
1281	Performance Analyses of Photonic-Crystal Surface-Emitting Laser: Toward High-Speed Optical Communication. Nanoscale Research Letters, 2022, 17, .	5.7	8
1282	Multihop Optical Wireless Communication Over ${\mathcal {F}}$-Turbulence Channels and Generalized Pointing Errors With Fog-Induced Fading. IEEE Photonics Journal, 2022, 14, 1-14.	2.0	3
1283	Comprehensive Performance Analysis of Hovering UAV-Based FSO Communication System. IEEE Photonics Journal, 2022, 14, 1-13.	2.0	11
1284	Design and Experimental Investigation of Decode-and-Forward and Amplify-and-Forward Relaying FSO-CDMA. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	1
1285	Beaconless angle-of-arrival tracking with improved receiver sensitivity and tracking precision for free-space optical communications. Optics Communications, 2023, 527, 128963.	2.1	10
1286	Dual-RNN based polar decoder with tanh-modified LLR over FSO turbulence channel. Optics Communications, 2023, 527, 128965.	2.1	1
1287	Comprehensive performance analysis of hybrid FSO/RF space–air–ground integrated network. Optics Communications, 2023, 527, 128964.	2.1	5
1288	Optical Beam Control Based on Variable Focus Lenses for WDM FSO Communications. , 2022, , .		2
1289	Single-Ended Coherent Channel Estimation. , 2022, , .		1
1290	Outage Probability Analysis of Free Space Communication System Using Diversity Combining Techniques. Computers, Materials and Continua, 2022, 73, 6001-6017.	1.9	1
1291	On the Performance and Optimization of HAPS Assisted Dual-Hop Hybrid RF/FSO System. IEEE Access, 2022, 10, 80976-80988.	4.2	4
1292	High-Speed Trains Access Connectivity Through RIS-Assisted FSO Communications. Journal of Lightwave Technology, 2022, 40, 7084-7094.	4.6	7
1293	Femtosecond Filament Coupled with Structured Light for Free Space Optical Communication. , 2022, , .		0
1294	Long-Range Optical Wireless Information and Power Transfer. IEEE Internet of Things Journal, 2023, 10, 1617-1627.	8.7	2
1295	Turbulence-Resilient 2.25-Gbit/s DPSK Self-Coherent Free-Space Optical Communication Link Using Automatic Optoelectronic Mixing of Many Spatial Modes. , 2022, , .		1
1296	Enhanced Atmospheric Turbulence Resiliency With Successive Interference Cancellation DSP in Mode Division Multiplexing Free-Space Optical Links. Journal of Lightwave Technology, 2022, 40, 7769-7778.	4.6	9
1297	Fiber-Coupling Efficiency of Laser Array Beam From Turbulent Atmosphere to Fiber Link. Journal of Lightwave Technology, 2023, 41, 59-65.	4.6	7
1298	Design Methodology for Wireless Backhaul/Fronthaul Using Free Space Optics and Fibers. Journal of Lightwave Technology, 2023, 41, 17-30.	4.6	2

#	ARTICLE	IF	CITATIONS
1299	Design of 32Ã—20 Gbps hybrid technique of PDM-WDM and its performance analysis for channel capacity enhancement. , 2022, , .		0
1300	Feedback Solution for Blind Symbol Timing Recovery in Bandlimited Optical Intensity Channels. , 2022, , .		4
1301	Demonstration of An Optical Wireless Communication System using a Software-Defined Ecosystem. , 2022, , .		0
1302	K-Means++ Algorithm Based Detection of QPSK-PD-NOMA Signal over Free Space Optical Channel. , 2022, , .		0
1303	Potential of Terahertz Communication Not Limited to Short Range. , 2022, , .		0
1304	150 Gbit/s 1 km high-sensitivity FSO communication outfield demonstration based on a soliton microcomb. Optics Express, 2022, 30, 35300.	3.4	2
1305	High-fidelity temporally-corrected transmission through dynamic smoke via pixel-to-plane data encoding. Optics Express, 2022, 30, 36464.	3.4	7
1306	On the performance of a hybrid frequencyâ€"phase-keying-based MIMO hybrid RF/FSO communication link. Journal of Optical Communications and Networking, 2022, 14, 840.	4.8	3
1307	Evaluating the performance of free space optical communication (FSOC) system under tropical weather conditions in India. International Journal of Communication Systems, 2022, 35, .	2.5	8
1309	Simulative analysis of dense wavelength-division multiplexing (DWDM)-oriented intersatellite optical wireless network. Journal of Optics (India), 2023, 52, 1226-1230.	1.7	3
1310	Analysis of RIS-Assisted FSO Systems Over F Turbulence Channel With Pointing Errors and Imperfect CSI. IEEE Wireless Communications Letters, 2022, 11, 1940-1944.	5.0	6
1311	Electroabsorption Modulator-Based Relay for the Transmission of DPSK-Modulated Signals over the Free Space Optical Link. Arabian Journal for Science and Engineering, 0, , .	3.0	0
1312	A Novel Low-Complexity High-Order DPSK System With Constellation Reconstruction for FSO Communication. IEEE Wireless Communications Letters, 2022, 11, 2031-2035.	5.0	2
1313	Optical data transmission through highly dynamic and turbid water using dynamic scaling factors and single-pixel detector. Optics Express, 2022, 30, 43480.	3.4	7
1314	Shift to 6G: Exploration on trends, vision, requirements, technologies, research, and standardization efforts. Sustainable Energy Technologies and Assessments, 2022, 54, 102666.	2.7	12
1315	Deep Learning-Based Channel Modeling for Free Space Optical Communications. Journal of Lightwave Technology, 2023, 41, 183-198.	4.6	4
1316	Diversity Combining based Relay Selection Scheme for Parallel Relayed FSO System with Improved DSS Protocol. , 2022, , .		0
1317	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using a photodetector array for bandwidth enhancement. Optics Letters, 2022, 47, 5723.	3.3	4

#	Article	IF	Citations
1318	Decentralized swarms of unmanned aerial vehicles for search and rescue operations without explicit communication. Autonomous Robots, 2023, 47, 77-93.	4.8	11
1319	Atmospheric Effects on Satellite–Ground Free Space Uplink and Downlink Optical Transmissions. Applied Sciences (Switzerland), 2022, 12, 10944.	2.5	8
1320	Machine learning FSO-SAC-OCDMA code recognition under different weather conditions. Optical and Quantum Electronics, 2022, 54, .	3.3	4
1321	Deep learning for eavesdropper detection in free-space optical ON-OFF keying. , 2022, 1, 2416.		1
1322	Optical wireless channel reciprocity-based temporal power allocation technique for FSO communications. Optics Communications, 2022, , 129089.	2.1	0
1323	A Survey of Hybrid Free Space Optics (FSO) Communication Networks to Achieve 5G Connectivity for Backhauling. Entropy, 2022, 24, 1573.	2.2	14
1324	Maritime Communications: A Survey on Enabling Technologies, Opportunities, and Challenges. IEEE Internet of Things Journal, 2023, 10, 3525-3547.	8.7	29
1325	Evolution of Short-Range Optical Wireless Communications. Journal of Lightwave Technology, 2023, 41, 1019-1040.	4.6	14
1326	Real-Time Experimental Demonstration of Hybrid FSO/Wireless Transmission Based on Coherent Detection and Delta-Sigma Modulation. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	1
1327	A Top-Down Survey on Optical Wireless Communications for the Internet of Things. IEEE Communications Surveys and Tutorials, 2023, 25, 1-45.	39.4	25
1328	On the Performance of Hovering UAV-Based FSO Communication System. , 2021, , .		0
1329	6G Network Architecture Using FSO-PDM/PV-OCDMA System with Weather Performance Analysis. Applied Sciences (Switzerland), 2022, 12, 11374.	2.5	10
1330	Data-Aided SNR Estimation for Bandlimited Optical Intensity Channels. Sensors, 2022, 22, 8660.	3.8	4
1331	A long-reach optically powered multi-band radio-over-fiber network by employing PolM-to-IM converter with enhanced fault-protection ability and less Rayleigh backscattering noise effect. Optical Fiber Technology, 2022, 74, 103143.	2.7	3
1333	Performance enhancement of FSO system under the effect of Scintillation using CWDM. AIP Conference Proceedings, 2022, , .	0.4	0
1334	Orbital Angular Momentum Beams for High-Capacity Communications. Journal of Lightwave Technology, 2023, 41, 1918-1933.	4.6	17
1335	Propagation characteristics of radial phase-locked discrete vector beam generated from a Gaussian Shell-Model laser array in atmospheric turbulence. Results in Physics, 2023, 44, 106115.	4.1	2
1336	Performance evaluation of a 160-Gbit/s OCDMA-FSO system via Laguerre-Gaussian beams under weather conditions. AEJ - Alexandria Engineering Journal, 2023, 63, 661-674.	6.4	14

#	Article	IF	Citations
1337	Adaptive Modulation for FSO IM/DD Systems With Multiple Transmitters and Receivers. IEEE Communications Letters, 2023, 27, 586-590.	4.1	3
1338	High-Speed Imaging Receiver Design for 6G Optical Wireless Communications: A Rate-FOV Trade-Off. IEEE Transactions on Communications, 2023, 71, 1024-1043.	7.8	4
1339	Power Efficiency Analysis of Spatial Diversity Based Vertical FSO Links With Pointing Error in Multiple Beam Transmissions. IEEE Access, 2022, 10, 129925-129931.	4.2	3
1340	Outage Performance for NOMA-Based FSO-RF Systems With Transmit Antenna Selection and Nonlinear Energy Harvesting. IEEE Internet of Things Journal, 2023, 10, 6491-6506.	8.7	2
1341	Experimental Investigation of FSO Systems Under the Effect of Atmospheric Turbulence, Heat, and Fog. , 2022, , .		2
1342	Free Space Optical Communication Study for Image Transmission Under Foggy Conditions. , 2022, , .		7
1343	Joint Trajectory and Charging Power Optimization for Laser-Charged UAV Relaying Networks. , 2022, , .		2
1344	A Deep Learning based Framework Implementation and Artificial Intelligence using Optical Communication. , 2022, , .		1
1345	Efficient MIMO Configuration for Bi-Directional Vertical FSO Link with Multiple Beam Induced Pointing Error. Sensors, 2022, 22, 9147.	3.8	3
1347	Synchronous Clock Recovery of Photon-Counting Underwater Optical Wireless Communication Based on Deep Learning. Photonics, 2022, 9, 884.	2.0	4
1350	On the Performance Analysis of V2N Mixed RF and Hybrid FSO/RF Communication System. IEEE Photonics Journal, 2022, 14, 1-14.	2.0	5
1352	Performance analysis of weather‐dependent satellite–terrestrial network with rate adaptation hybrid free‐space optical and radio frequency link. International Journal of Satellite Communications and Networking, 2023, 41, 357-373.	1.8	3
1353	Cyclic prefix length optimization in OFDM-MMWOF/PAM4-FSO integrated system for future generation smart wireless communication. Optical and Quantum Electronics, 2023, 55, .	3.3	3
1354	Experimental demonstration of real-time optical DFT-S DMT signal transmission for a blue-LED-based UWOC system using spatial diversity reception. Applied Optics, 2023, 62, 541.	1.8	6
1355	Deployment of multiservice code in FSO-based hybrid subcarrier system. Journal of Optical Communications, 2022, .	4.7	0
1356	Performance investigation and development of 112 gbit/s dual polarization 16 QAM transmission system using differential encoding. Optical and Quantum Electronics, 2023, 55, .	3.3	1
1357	Performance Comparison of Different Diversity and Combining Techniques Over Gamma–Gamma FSO Link. Lecture Notes in Electrical Engineering, 2023, , 165-176.	0.4	0
1358	Bit Error Probability of an Optically Pre-amplified Pulse Position Modulation Receiver with Reed Solomon Error Correction. , 2022, , .		0

#	Article	IF	Citations
1360	Investigation of optimum FSO communication link using different modulation techniques under fog conditions. Heliyon, 2022, 8, e12516.	3.2	5
1361	Longâ€Range Optical Wireless Communication System Based on a Largeâ€Area, Qâ€Dots Fluorescent Antenna. Laser and Photonics Reviews, 2023, 17, .	8.7	7
1362	Novel adaptive hard-switching based hybrid RF-FSO system architecture using two threshold values in the presence of atmospheric turbulence and pointing error. Results in Engineering, 2023, 17, 100813.	5.1	5
1363	A 112 Gbps flexible fiber-free space optics convergent passive optical network system for broadcasting high-speed data traffic under different weather conditions. Optical and Quantum Electronics, 2023, 55, .	3.3	1
1364	Image encryption and watermarking in ACO-OFDM-VLC system employing novel memristive hyperchaotic map. Soft Computing, 2023, 27, 4521-4542.	3.6	7
1365	Non-Data-Aided SNR Estimation for Bandlimited Optical Intensity Channels. Sensors, 2023, 23, 802.	3.8	3
1366	Performance limits of SAC-OCDMA-based FSO system over gammaâ€"gamma fading using DDDW code. Journal of Optics (India), 0, , .	1.7	0
1367	Reliable and cost effective all-optical wireless architecture for a broadband access network. Journal of Optical Communications and Networking, 2023, 15, 98.	4.8	4
1368	Generation of multiple obstruction-free channels for free space optical communication. Optics Express, 2023, 31, 3168.	3.4	4
1369	MOEMS-based Lens-Assisted Beam Steering for Free-Space Optical Communications. Journal of Lightwave Technology, 2023, , 1-16.	4.6	5
1370	Free-Space Optical Communication over $\mathcal{F}$ Turbulence Channel with Nonzero Boresight Pointing Errors. , 2022, , .		1
1371	Receiving Power of Oblique Laser Links of Optical Mobile Communication System. , 2022, , .		0
1372	Investigating The Performances of Polar Codes under Atmospheric Turbulence Log-Normal Distributed Channels for Free Space Optical (FSO) Communications. , 2022, , .		0
1373	On Free-Space Optical Communication as a Backhauls Applications for 5G. , 2022, , .		1
1374	Coherent Communications for Free Space Optical Low-Earth Orbit Downlinks. , 2022, , .		1
1375	On Achievable Rates of Evenly-Spaced Discrete Uniform Distributions in the IM/DD Broadcast Channel. , 2022, , .		0
1376	Implementation of Adaptive Bit Decision Point to Improve Receiver Performance in Li-Fi System. , 2022, , .		0
1377	Spatial diversity detection using single-photodetector coherent receiver array for free-space optical communications. Optics Communications, 2023, 534, 129242.	2.1	1

#	Article	IF	Citations
1378	A novel approach towards the designing of WDM-FSO system incorporating three SOPs and its performance analysis under different geographical regions of India. Journal of Optical Communications, 2022, .	4.7	3
1379	Broadband transparent and flexible silver mesh for efficient electromagnetic interference shielding and high-quality free-space optical communication. Optical Materials Express, 2023, 13, 469.	3.0	5
1380	Validation of open-path dual-comb spectroscopy against an O_2 background. Optics Express, 2023, 31, 5042.	3.4	5
1381	Structured light signal transmission through clouds. Journal of Applied Physics, 2023, 133, .	2.5	4
1382	MIMO Free-Space Optical Communications Using Photon-Counting Receivers Under Weak Links. IEEE Communications Letters, 2023, 27, 1185-1189.	4.1	1
1383	Wireless and Optical Convergent Access Technologies Toward 6G. IEEE Access, 2023, 11, 9232-9259.	4.2	19
1384	Adaptive Transceiver Design for High-Capacity Multi-Modal Free-Space Optical Communications With Commercial Devices and Atmospheric Turbulence. Journal of Lightwave Technology, 2023, 41, 3397-3406.	4.6	6
1385	Adaptive Transmission Based on MIMO Mode Switching Over Malaga Turbulence Channel With Pointing Error. IEEE Photonics Journal, 2023, 15, 1-11.	2.0	1
1386	Energy Efficiency Analysis of FSO Backhauled Uplink NOMA System. , 2022, , .		0
1387	Soft Computing based Machine Learning Techniques for Optical Communication Networks. , 2022, , .		1
1388	Physical Layer Security for FSO-based Data Center. , 2022, , .		0
1389	Asymmetric Dual-Mode Constellation and Protograph LDPC Code Design for Generalized Spatial MPPM Systems. IEEE Transactions on Communications, 2023, 71, 3165-3177.	7.8	0
1390	Tradeoff Between Diversity and Multiplexing Gains in Block Fading Optical Wireless Channels. IEEE Transactions on Information Theory, 2023, 69, 3415-3430.	2.4	1
1391	Performance Analysis of Integrated Air-Ground-Underwater Hybrid RF/FSO Communication System Using HAPS Based Relaying. , 2023, , .		0
1392	Phase-Shift Design and Channel Modeling for Focused Beams in IRS-Assisted FSO Systems. IEEE Transactions on Vehicular Technology, 2023, 72, 10971-10976.	6.3	1
1394	Turbulence-resilient differential-phase-shift-keying free-space optical communications using automatic multi-mode optoelectronic mixing. Optics Communications, 2023, 534, 129330.	2.1	0
1395	A 40-Gbps fiber-FSO convergent transmission system employing OFCL-based WDM and external modulation technique. Results in Optics, 2023, 11, 100421.	2.0	3
1396	Coupling efficiency of multimode beam to fiber in atmospheric turbulence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2023, 303, 108590.	2.3	3

#	ARTICLE	IF	CITATIONS
1397	Link Reliability of Satellite-to-Ground Free-Space Optical Communication Systems in South Korea. , 2022, , .		0
1398	Performance analysis of multiple-beam WDM free space laser-communication system using homodyne detection approach. Heliyon, 2023, 9, e13325.	3.2	5
1399	Performance analysis of SPAD-based optical wireless communication with OFDM. Journal of Optical Communications and Networking, 2023, 15, 174.	4.8	6
1400	16-Channel Wavelength Division Multiplexers Based on Subwavelength Grating. Applied Sciences (Switzerland), 2023, 13, 1833.	2.5	3
1401	Signal Processing Techniques for 6G. Journal of Signal Processing Systems, 2023, 95, 435-457.	2.1	8
1402	Experimental demonstration of an 8-Gbit/s free-space secure optical communication link using all-optical chaos modulation. Optics Letters, 2023, 48, 1470.	3.3	8
1403	Upper Bounds on the Capacity of Multiple-Antenna Optical Intensity Channels: A Sphere-Packing Perspective. , 2022, , .		0
1404	Analysis of Jamming Effects in IRS Assisted UAV Dual-Hop FSO Communication Systems. IEEE Transactions on Vehicular Technology, 2023, 72, 8956-8971.	6.3	4
1405	Optical Wireless Communication for 6G Networks. Smart Innovation, Systems and Technologies, 2023, , 361-377.	0.6	1
1406	A 160 Gbps free-space optics transmission enabled by DP-256-QAM and DSP algorithms. , 2022, , .		0
1407	High-fidelity ghost diffraction through complex scattering media using a modified Gerchberg-Saxton algorithm. Optics Express, 2023, 31, 14389.	3.4	3
1408	Performance evaluation of DP-QPSK modulation for underwater optical wireless communication using a green light propagation. , 2022, , .		0
1409	From fibers to satellites: lessons to learn and pitfalls to avoid when optical communications move to long distance free space. , 2022, , .		0
1410	Satellite. , 2022, , .		2
1411	Performance Study of Generalized Space Time Block Coded Enhanced Fully Optical Generalized Spatial Modulation System Based on MÃ¡laga Distribution Model. Photonics, 2023, 10, 285.	2.0	0
1412	Optical analog-signal transmission system in dynamic and complex scattering environment using binary encoding with a modified differential method. Optics Express, 0, , .	3.4	0
1413	Dual-Filter Architecture for Blind Feedback Recovery of the Symbol Timing in Bandlimited Optical Intensity Channels. Electronics (Switzerland), 2023, 12, 1411.	3.1	0
1414	Hovering UAV-Based FSO Communications with DF Relaying: A Performance Analysis. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
1415	Binary Modelling and Capacity-Approaching Coding for the IM/DD Channel. IEEE Transactions on Communications, 2023, , 1-1.	7.8	0
1416	Automatic turbulence mitigation for coherent free-space optical links using crystal-based phase conjugation and fiber-coupled data modulation. Optics Letters, 2023, 48, 2194.	3.3	2
1417	Demonstration of the First Outdoor 2-Î¼m-Band Real-Time Video Transmission Free-Space Optical Communication System Using a Self-Designed Single-Frequency Fiber Laser. Journal of Lightwave Technology, 2023, 41, 5275-5283.	4.6	4
1418	A Novel Receiver Based on Rotational Double Prisms for Optical Wireless Communication. , 2022, , .		0
1419	A Novel Application of Optical Wireless Communication and Positioning Systems: Low-Cost Obstacle Detection. , 2022, , .		0
1420	Turbulence-resistant high-capacity free-space optical communications using OAM mode group multiplexing. Optics Express, 2023, 31, 14454.	3.4	7
1421	Performance Evaluation of Optical Wireless Communication System in Fog Weather Conditions. , 2023, , .		0
1422	Adaptive Service Scheduling for Satellite-Ground Downlink Capacity in Optical Satellite Networks. , 2022, , .		1
1423	Designing an optimized free space optical (FSO) link for terrestrial commercial applications under turbulent channel conditions. Optical and Quantum Electronics, 2023, 55, .	3.3	6
1424	Polar-Coded Transmission over 7.8-km Terrestrial Free-Space Optical Links. Photonics, 2023, 10, 462.	2.0	0
1425	Performance of orthogonal frequency division multiplexing based Mâ€ary quadrature amplitude modulation in asymmetrical dualâ€hop mixed RFâ€FSO transmission system. International Journal of Communication Systems, 0, , .	2.5	0
1426	A Reviewâ€"Unguided Optical Communications: Developments, Technology Evolution, and Challenges. Electronics (Switzerland), 2023, 12, 1922.	3.1	6
1427	Bidirectional Free Space Optics Communication for Long-Distance Sensor System. Journal of Lightwave Technology, 2023, 41, 5870-5878.	4.6	2
1428	Integration of Fiber Optics and Free Space Optics: A Hybrid Approach for Last Mile Connectivity. , 2023, , .		0
1429	Performance Analysis of HAPS integrated Hybrid RF/FSO System Cascaded With an UWOC Link. , 2023, , .		0
1430	Demonstration of â€œAutomaticâ€•Turbulence Mitigation of 4 QPSK Channels in a Self-Coherent Free-Space Mode-Division-Multiplexed Link Using a Pilot Beam and Photodetector Array. , 2023, , .		0
1431	Automatic Turbulence Resilience in Self-Coherent Free-Space Optical Communications. , 2023, , .		0
1432	Study of atmospheric attenuation on image quality assessment in FSO transmission operating at 850, 1064 and 1550 nm wavelengths. , 2023, , .		0

#	Article	IF	Citations
1433	Pulse Sequence Sensing and Pulse Position Modulation for Optical Integrated Sensing and Communication. IEEE Communications Letters, 2023, 27, 1525-1529.	4.1	1
1434	Performance analysis of adaptive PPM-GMSK-SIM modulation over Ò'-turbulence channel model in FSO communication. Optical and Quantum Electronics, 2023, 55, .	3.3	4
1435	Performance of hybrid RF/FSO wireless communication system under low visibility. Journal of Optical Communications, 2023, .	4.7	0
1436	Performance Analysis of High-Speed MIMO FSO System In Various Data Formats. , 2023, , .		1
1437	On some classical and quantum mechanical aspects of light in an optical fiber. Journal of Optics (India), 0, , .	1.7	0
1438	Security-Reliability Tradeoff Analysis for Multiuser FSO Communications over a Generalized Channel. IEEE Access, 2023, , 1-1.	4.2	1
1439	Supervised Machine Learning for Refractive Index Structure Parameter Modeling. Quantum Beam Science, 2023, 7, 18.	1.2	0
1440	A Review of Advanced Transceiver Technologies in Visible Light Communications. Photonics, 2023, 10, 648.	2.0	1
1442	Physical Layer Security of Dual-Hop Hybrid FSO-mmWave Systems. IEEE Access, 2023, 11, 58209-58227.	4.2	0
1443	Performance Analysis of MIMO FSO Communication system over $\mathcal{M}$-distributed Fading Channel. , 2023, , .		0
1444	Performance Analysis of Satellite-Vehicle Networks With a Non-Terrestrial Vehicle. IEEE Transactions on Intelligent Vehicles, 2024, 9, 1691-1700.	12.7	0
1445	Multi-Level Logarithmic Amplification-Based Fixed Threshold Circular Polarized On-Off Keying Detection for Free-Space Optical Communications. Photonics, 2023, 10, 667.	2.0	0
1446	Performance analysis of a RIS-assisted RoFSO communication system over Malaga distribution for smart city applications. Applied Optics, 2023, 62, 5325.	1.8	2
1447	Measuring the Orbital Angular Momentum of Light Based on Optical Differentiation. IEEE Photonics Journal, 2023, 15, 1-7.	2.0	1
1448	Fibre optic-VLC versus laser-VLC: a review study. Photonic Network Communications, 2023, 46, 1-15.	2.7	5
1449	Wide-field-of-view optical detectors for deep ultraviolet light communication using all-inorganic $CsPbBr_3$ perovskite nanocrystals. Optics Express, 2023, 31, 25385.	3.4	1
1450	Modulation and Signal Processing for LEO-LEO Optical Inter-Satellite Links. IEEE Access, 2023, 11, 63598-63611.	4.2	1
1451	Tbit/s line-rate satellite feeder links enabled by coherent modulation and full-adaptive optics. Light: Science and Applications, 2023, 12, .	16.6	10

#	Article	IF	Citations
1452	Highly Tunable Cascaded Metasurfaces for Continuous Two‐Dimensional Beam Steering. Advanced Science, 2023, 10, .	11.2	3
1453	BER performance of FSOC system over atmospheric turbulence channels based on computational temporal ghost imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 0, , .	1.5	1
1454	Performance investigation of multi-aperture digital combining algorithm for satellite-to-ground coherent optical communication. Optics Communications, 2023, 545, 129722.	2.1	1
1455	Image transmission performance analysis through free space optical communication link using coherent <scp>QPSK</scp> modulation under various environmental conditions. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	3.9	2
1456	Graph-based conflict-free MAC protocol and conflict analysis for a two-layer ultraviolet communication network. Journal of Optical Communications and Networking, 2023, 15, 381.	4.8	1
1457	Autonomous Self-Adaptive and Self-Aware Optical Wireless Communication Systems. Sensors, 2023, 23, 4331.	3.8	1
1458	Designing and performance analysis of a high-speed integrated fibre/FSO transmission system enabled by space-division-multiplexing for last-mile connectivity. Optical and Quantum Electronics, 2023, 55, .	3.3	1
1459	Exploiting potentialities for space-based quantum communication network: downlink quantum key distribution modelling and scheduling analysis. New Journal of Physics, 2023, 25, 055001.	2.9	0
1460	Investigation of Doppler Frequency Shift Effect on the Performance of Four-Channel Space Chaotic Laser Communication. IEEE Photonics Journal, 2023, 15, 1-9.	2.0	0
1461	Omnidirectional optical communication system designed for underwater swarm robotics. Optics Express, 2023, 31, 18630.	3.4	1
1462	Multihop IRS-assisted free space optics communication with DF relaying: a performance analysis. Applied Optics, 2023, 62, 4716.	1.8	2
1463	Hybrid Wavelength-Mode Division Multiplexing-Enabled Terrestrial Radio-Over-Free Space Optics Transmission: Impact Of Weather Attenuation. , 2022, , .		1
1464	Modeling and investigation on the performance enhancement of hovering UAV-based FSO relay optical wireless communication systems under pointing errors and atmospheric turbulence effects. Optical and Quantum Electronics, 2023, 55, .	3.3	4
1465	Demonstration of â€œAutomaticâ€•Turbulence Mitigation of 4 QPSK Channels in a Self-Coherent Free-Space Mode-Division-Multiplexed Link Using a Pilot Beam and Photodetector Array. , 2023, , .		0
1466	Combination of <scp>FSO</scp> and <scp>RF</scp> channels by using Ethernet link aggregation. Engineering Reports, 0, , .	1.7	0
1467	On secrecy performance of mixed Î± âˆ'ÂÎ¼âˆ'ÂÎ¼ and MÃ¡laga RF-FSO variable gain relaying channel. Optical and Quantum Electronics, 2023, 55, .	3.3	0
1468	Distribution Decomposition and Sum-Capacity Results of Two-User Optical Intensity Multiple Access Channels. IEEE Transactions on Information Theory, 2023, 69, 5532-5549.	2.4	0
1469	Synchronization and clock recovery in a ferroelectric liquid crystal spatial light modulator based free-space optical communication link. Review of Scientific Instruments, 2023, 94, .	1.3	1

#	Article	IF	Citations
1470	Lasers on the Moon: Recommendations for Pioneering Lunar Communication Infrastructure. IEEE Pervasive Computing, 2023, 22, 19-25.	1.3	0
1471	Performance Analysis of Adaptive Combining Based Hybrid FSO/RF Communication System with Pointing Errors Over F-Distribution/ Nakagami-m Channel Models. , 2023, , .		0
1472	Squared and rectangular QAM compatible decoder for spectrally efficient frequency division multiplexing optical systems. Optics and Laser Technology, 2023, 167, 109776.	4.6	1
1473	Performance estimation of polarization multiplexed DPSK signal transmission over temporally correlated free space optical channel. Optical and Quantum Electronics, 2023, 55, .	3.3	0
1474	BER Efficiency of Outdoor Optics Links Using Hybrid-SIM with Pointing Errors Operating on Extreme Turbulence Regime. Lecture Notes in Electrical Engineering, 2023, , 13-22.	0.4	0
1475	Acquisition Time in Laser Inter-Satellite Link Under Satellite Vibrations. IEEE Photonics Journal, 2023, 15, 1-9.	2.0	2
1476	Modeling and Design of IRS-Assisted FSO System Under Random Misalignment. IEEE Photonics Journal, 2023, 15, 1-13.	2.0	1
1477	Design and Performance Study of Free Space Optical Communication System. , 2023, , .		0
1478	Link handling for the atmospheric turbulence using LSTM neural networks in free space optical (FSO) communication. Journal of Optical Communications, 2023, .	4.7	0
1479	FSO System Performances for Novel Turbulence Shadowed Chi-square Model. , 2023, , .		0
1480	Two-Stage Link Loss Optimization of Divergent Gaussian Beams for Narrow Field-of-View Receivers in Line-of-Sight Indoor Downlink Optical Wireless Communication (Invited). Photonics, 2023, 10, 815.	2.0	1
1481	Supervised Machine Learning for Refractive Index Structure Parameter Modeling. , 2023, , .		0
1482	Numerical evaluation of bidirectional high-speed data transmission over turbulence tolerable FSO link employing WDM-OAM multiplexing and DP-QPSK modulation techniques. Optics Communications, 2023, 546, 129753.	2.1	2
1483	Analysis of bit error rate of pulse position modulation in free-space optical communication. , 0, 53, 56-64.		0
1484	Error Rate Analysis of NOMA: Principles, Survey and Future Directions. IEEE Open Journal of the Communications Society, 2023, 4, 1682-1727.	6.9	3
1485	Divergent Gaussian Beams of FSO Links with Power Losses and Pointing Errors. , 2023, , .		0
1487	Performance Monitoring of Hybrid All-Optical Fiber/FSO Communication Systems. Applied Sciences (Switzerland), 2023, 13, 8477.	2.5	2
1488	Sub-THz Signal Transmission in Harsh Environments using L-Band Quantum-dash Laser Source: Experiments and Modeling. IEEE Journal of Selected Topics in Quantum Electronics, 2023, , 1-10.	2.9	0

#	ARTICLE	IF	CITATIONS
1489	Rain effects analysis on image transmission through free space optical communication system. Journal of Optical Communications, 2023, .	4.7	2
1490	Single-Ended Characterization of Coherent Transfer Matrix of Coupled Multimode Transmission Channels. Photonics Research, 0, , .	7.0	0
1491	Orbital angular momentum shift-keying communication through atmospheric turbulence and high scattering channel using a deep learning decoder. Optics Communications, 2023, , 129787.	2.1	0
1492	Free space optical communication in Indian cities; channel characteristics and link performance. Journal of Optical Communications, 2023, .	4.7	0
1493	Artificial neural networks for photonic applicationsâ€"from algorithms to implementation: tutorial. Advances in Optics and Photonics, 2023, 15, 739.	25.5	6
1494	Relay-Assisted Deep Space Optical Communication System Over Coronal Fading Channels. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 8297-8312.	4.7	6
1495	Spectrum Options and Allocations for 6G: A Regulatory and Standardization Review. IEEE Open Journal of the Communications Society, 2023, 4, 1787-1812.	6.9	7
1496	Massively Parallel Free Space Optical Communications Based on Soliton Microcomb. , 2023, , .		0
1497	Nonlinear distortion mitigation of DML-based OFDM optical systems with non-orthogonal DFT-precoding. Optics Letters, 2023, 48, 4613.	3.3	1
1498	Experimental demonstration of a hybrid OFDMA/NOMA scheme for multi-user underwater wireless optical communication systems. Optics Communications, 2023, 548, 129823.	2.1	0
1499	Benefits of Mode Multiplexed Free-Space Transmission (Invited Paper). , 2023, , .		0
1500	Performance Analysis of Intelligent Reflecting Surface Assisted-FSO System over Turbulent Channels with Pointing Errors. , 2023, , .		0
1501	Gaussian-Shaped Free-Space Optical Beam Intensity Estimation in Detector Arrays. Photonics, 2023, 10, 930.	2.0	0
1502	Wide-Field-of-View Modulating Retro-Reflector System Based on a Telecentric Lens for High-Speed Free-Space Optical Communication. IEEE Photonics Journal, 2023, 15, 1-8.	2.0	2
1503	Bootstrapped low complex iterative LDPC decoding algorithms for free-space optical communication links. Eurasip Journal on Wireless Communications and Networking, 2023, 2023, .	2.4	0
1504	Performance evaluation of re-configurable intelligent surface-assisted underwater and free-space wireless optical communication in the skip-zones. ICT Express, 2023, , .	4.8	0
1505	End-to-End Learning for Free Space Optical Communication with BiLSTM-based Channel Model. , 2023, , .		0
1506	Deep Learning-Based Image Denoising Approach for the Identification of Structured Light Modes in Dusty Weather. IEEE Photonics Journal, 2023, 15, 1-10.	2.0	1

#	Article	IF	Citations
1507	Utilizing Structured Modal Beams in Free-Space Optical Communications for Performance Enhancement. IEEE Journal of Selected Topics in Quantum Electronics, 2023, , 1-13.	2.9	0
1508	Reed Solomon error correction in pre-amplified pulse position modulation receivers. AEU - International Journal of Electronics and Communications, 2024, 175, 154859.	2.9	0
1509	IRS-Assisted Mixed FSO-RF Communication System with On-Off Controlling. , 2022, , .		0
1510	Performance of Intelligent Reflecting Surface Based-FSO Link Under Strong Turbulence and Spatial Jitter. , 2023, , .		0
1511	Image encryption using binary polarization states of light beam. Scientific Reports, 2023, 13, .	3.3	4
1512	Error Performance of Relay-Assisted Free-Space Optical Communication Links Over Atmospheric Turbulence Channels. Lecture Notes in Networks and Systems, 2024, , 25-37.	0.7	0
1513	Bidirectional Atmospheric Channel Reciprocity-Based Adaptive Power Transmission. Photonics, 2023, 10, 1067.	2.0	0
1514	An Insight to the Outage Performance of Multi-Hop Mixed RF/FSO/UWOC System. Photonics, 2023, 10, 1010.	2.0	0
1515	Performance Analysis of Soft-Switching FSO/THz-RF Dual-Hop AF-NOMA Link Based on Cognitive Radio. Photonics, 2023, 10, 1086.	2.0	0
1516	Securing Non-Terrestrial FSO Link with Public Key Encryption Against Flying Object Attacks. Photonics, 2023, 10, 884.	2.0	2
1517	Opportunities and Challenges of OIRS-assisted UAV-based FSO Communication Systems. , 2023, , .		0
1518	Performance study of an enhanced fully optical generalized spatial modulation free-space opticalÂsystem based on serial unmanned aerial vehicleÂrelay. Applied Optics, 2023, 62, 6899.	1.8	0
1520	A Poisson Shot Noise Limited MMSE Precoding for Photon-Counting MIMO Systems with Reinforcement Learning. Applied Sciences (Switzerland), 2023, 13, 10855.	2.5	0
1521	Hybrid FSO/RF system over proposed random dust attenuation model based on real-time data combined with Gâ€"G atmospheric turbulence. Optics Communications, 2023, 549, 129891.	2.1	1
1522	Breaking through the plasma wavelength barrier to extend the transparency range of ultrathin indium tin oxide films into the far infrared. Journal of Applied Physics, 2023, 134, .	2.5	0
1523	Energy-Efficient Emerging Optical Wireless Links. Energies, 2023, 16, 6485.	3.1	0
1524	Quantifying Impact of Pointing Errors on Secrecy Performance of UAV-Based Relay-Assisted FSO Links. IEEE Internet of Things Journal, 2024, 11, 2979-2989.	8.7	1
1525	Full-Duplex Mixed RF/FSO using Multiple Relays with Self-Interference. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
1526	An Autoencoder-based Transceiver for UAV-to-Ground Free Space Optical Communication. , 2023, , .		0
1527	Hybrid channel coding for OAM division multiplexing free space optical communication systems. Optics Express, 2023, 31, 30446.	3.4	0
1528	Downlink Multiple Access in Optical Mobile Communications: NOMA and OMA Comparison. , 2023, , .		0
1529	A Multiple Llyods Approach for LiDAR Point Cloud Quantization and Communication. , 2023, , .		0
1530	The Capacity-Achieving Input of Optical Wireless Channels: The Number of Mass Points. , 2023, , .		0
1531	Soft OSD-Sliding Window Decoding for Staircase LDPC Codes in Deep Space Communications. , 2023, , .		0
1532	An improved deep learning-based end-to-end autoencoder for UAV-to-ground free space optical communication. Optics Communications, 2023, 549, 129938.	2.1	0
1533	KSPGD algorithm to restrain the influence of measurement noise in adaptive fiber coupling. Optical Engineering, 2023, 63, .	1.0	0
1534	A Design and Implementation of Underwater Wireless Optical Communication System. , 2023, , .		0
1535	Performance Analysis of a Decode-and-Forward Based Mixed RFâ€"FSOâ€"VLC System. International Journal of Wireless Information Networks, 2023, 30, 332-347.	2.7	0
1536	Parallel FSO-RF Transmissions for High-Throughput Remote Access with Satellite Communications. IEEE Transactions on Aerospace and Electronic Systems, 2023, , 1-10.	4.7	0
1537	Experimental demonstration of SNSPD-based free space optical communication with a high extinction ratio modulator. Optics Communications, 2024, 550, 129998.	2.1	0
1538	Average Channel Capacity Bounds of a Dynamic Vehicle-to-Vehicle Visible Light Communication System. IEEE Transactions on Vehicular Technology, 2024, 73, 1513-1523.	6.3	1
1539	Impulse Response Modeling and Dynamic Analysis for SIMO UOWC Systems Enhanced by RIS-Equipped UUVs. IEEE Transactions on Vehicular Technology, 2024, 73, 1540-1553.	6.3	0
1540	High-speed free-space optical communication using standard fiber communication components without optical amplification. , 2023, 2, .		0
1541	Design and Analysis of Optical Wireless Communication Systems. , 2023, , .		1
1542	Compact Diode-Pumped Solid-State Laser with Intracavity Pump-Enhanced DFG Emitting at ~3.5 Microns. Photonics, 2023, 10, 1164.	2.0	0
1543	Development of a cost-effective optical network based on free space optical (FSO) and optical fiber links for enabling smart city infrastructure: A hybrid approach. Optical Fiber Technology, 2023, 81, 103544.	2.7	0

#	Article	IF	Citations
1544	Turbulence-Robust Free-Space Optical Transmission Assisted by a Pilot Beam. , 2023, , .		0
1545	Review on UAV-based FSO links: recent advances, challenges, and performance metrics. Optical Engineering, 2023, 63, .	1.0	0
1546	Earth-to-HAP FSO Communication With Spatial Diversity and Channel Correlation. IEEE Transactions on Aerospace and Electronic Systems, 2024, 60, 304-319.	4.7	0
1547	DSM-Based Precise Pointing Angle Deviation Measurement Method for Beaconless Free Space Optical Communication. IEEE Photonics Journal, 2023, 15, 1-7.	2.0	1
1548	é«˜åŠŸçŽ‡æ—ç°¿å…‰é€šä¿¡æ³¢é•¿è½¬æ¢ç»»ç»Ÿæ€§èƒ½ç”ç©¶. Hongwai Yu Jiguang Gongcheng/Infrared and Laser Engineering, 202	0.4	0
1549	An Efficient Recognition Method for Orbital Angular Momentum via Adaptive Deep ELM. Sensors, 2023, 23, 8737.	3.8	1
1550	Free Space Optical Communication: An Enabling Backhaul Technology for 6G Non-Terrestrial Networks. Photonics, 2023, 10, 1210.	2.0	1
1551	Analysis and investigation of a novel underwater channel model for OWC under log-normal turbulent condition. Photonic Network Communications, 2024, 47, 1-8.	2.7	0
1552	Review of Technique and Performance Analysis of FSO (Free Space Optical Fiber). , 2023, , .		0
1553	On the performance of DF relayed hybrid RF/FSO cascaded with VLC link. Telecommunication Systems, 0, , .	2.5	0
1554	Monte-Carlo based vertical underwater optical communication performance analysis with chlorophyll depth profiles. Optics Express, 2023, 31, 41684.	3.4	0
1555	Meta-Learning for Boosting the Sensing Quality and Utility of FSO-Based Multichannel FBG Sensor System. IEEE Sensors Journal, 2023, 23, 31506-31512.	4.7	0
1556	Intelligent-reflecting-surfaces-assisted hybrid FSO/RF communication with diversity combining: a performance analysis. Applied Optics, 2023, 62, 9399.	1.8	0
1557	Demonstration of 120 Gbit/s turbulence-resilient coherent optical communication employing cylindrical vector beam multiplexing. Optics Express, 2023, 31, 42165.	3.4	0
1558	Free Space Optical Integrated Sensing and Communication Based on LFM and CPM. IEEE Communications Letters, 2023, , 1-1.	4.1	0
1559	High-sensitivity few-mode heterodyne receiver with a few-mode optical fiber amplifier for turbulence resistance in free space optical communication. Optics Communications, 2024, 554, 130126.	2.1	0
1560	Optical Glasses Transmittance Reduction Under Gamma Radiation Exposure at Different Temperatures. , 2023, , .		0
1561	Frequency-bin photonic quantum information. Optica, 2023, 10, 1655.	9.3	2

#	ARTICLE	IF	CITATIONS
1562	Free Space Optical Quantum Communication Channel Modelling to Predict Losses under Diverse Weather Conditions. , 2023, , .		0
1563	THz vs. FSO: An Outage Probability and Channel Capacity Performance Comparison Study. , 2023, , .		0
1564	Energy efficiency performance in RIS-based integrated satellite–aerial–terrestrial relay networks with deep reinforcement learning. Eurasip Journal on Advances in Signal Processing, 2023, 2023, .	1.7	0
1565	Deep learning for enhanced free-space optical communications. Machine Learning: Science and Technology, 2023, 4, 045046.	5.0	1
1566	Implementation of an Indoor Free-Space Optical Communication Link Using On-Off Keying Optical Modulation, a Useful Didactic Tool for Optoelectronic Engineering Students. , 2023, , .		0
1567	The Performance of Millimeter-Wave Over FSO Communication Systems Under Adverse Atmospheric Conditions for 6G Applications. , 2023, , .		0
1568	On secrecy capacity analysis of FSO communication systems under generalized Malaga-M turbulence. AIP Conference Proceedings, 2023, , .	0.4	0
1569	A Practical ACO-OFDM Link with an Efficient Timing Recovery Pattern. , 2023, , .		0
1570	Design and Construction of an Optical Communication System: Utilizing High‐Performance Organic–Inorganic Hybrid Perovskite‐Based Photodetectors. Advanced Optical Materials, 2024, 12, .	7.3	0
1571	Novel Results on SNR Estimation for Bandlimited Optical Intensity Channels. Sensors, 2024, 24, 23.	3.8	0
1572	Generation and free-space transmission characterization of bottle vortex beam. Optics Express, 2023, 31, 41094.	3.4	0
1573	Multimode beam propagation through atmospheric turbulence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2024, 314, 108857.	2.3	0
1574	Verification of QAM based Photon-Counting Wireless Communication Using simulated single Photon Pulses by FPGA. , 2023, , .		0
1575	Performance analysis of 160‐Gbps-60‐GHz OFDM-MIMO RoFSO transmission with WDM-PDM dual multiplexing. Journal of Optical Communications, 2023, .	4.7	1
1576	High-speed physical layer secure communication scheme based on synchronous chaotic and electro-optic self-feedback dual-phase encryption. Journal of Optics (United Kingdom), 2024, 26, 015703.	2.2	0
1577	Secure optical interconnects using orbital angular momentum beams multiplexing/multicasting. , 2023, 3, .		0
1579	Secrecy Performance of Uplink MIMO-NOMA with Antenna Selection in a Mixed RF-FSO System. , 2023, , .		0
1580	Unified Performance Analysis of Direct Air-to-Underwater RF/UWOC Systems. Photonics, 2024, 11, 21.	2.0	0

#	ARTICLE	IF	CITATIONS
1581	A Survey of Vehicular VLC Methodologies. Sensors, 2024, 24, 598.	3.8	0
1582	Gravity-based network traffic abstraction and laser ON/OFF control in optical satellite networks. Journal of Optical Communications and Networking, 2023, 15, 958.	4.8	0
1583	Performance of Cipher Image Transmission in Free Space Optics Under Foggy Weather. IEEE Access, 2023, 11, 139478-139497.	4.2	0
1584	Applications of Free Space Optics in Terrestrial Backhaul. , 2023, , .		1
1585	Optimization of wireless optical communication using perfect vortex beam. Optics Communications, 2024, 556, 130258.	2.1	0
1586	Efficient Quality Factor Prediction of Artificial Neural Network Based IsOWC System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 223-230.	0.3	0
1587	Cooperative Terrestrial–Underwater FSO System: Design and Performance Analysis. Photonics, 2024, 11, 58.	2.0	0
1588	Efficient synchronous retrieval of OAM modes and AT strength using multi-task neural networks. Optics Express, 2024, 32, 7816.	3.4	0
1589	Performance Enhancement of FSO Communication System Under Rainy Weather Environment Using a Novel Encryption Technique. IEEE Access, 2024, 12, 13729-13746.	4.2	1
1590	Binary image encryption with a QR code-encoded optical beam having an array of vortices. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2024, 41, A73.	1.5	0
1591	Energy Efficient Routing for Fso-Rf Space-Air-Ground Integrated Network: A Deep Reinforcement Learning Approach. , 2023, , .		0
1592	Performance analysis of FSO/THz-RF dual-hop link based on NOMA. Optics Communications, 2024, 557, 130332.	2.1	0
1593	An Experimental Demonstration of 2D-Multiple-Input-Multiple-Output-Based Deep Learning for Optical Camera Communication. Applied Sciences (Switzerland), 2024, 14, 1003.	2.5	0
1594	High speed underwater laser communication utilizing USB based data transmission and the Internet of Underwater Things (IoUT) framework. AIP Conference Proceedings, 2024, , .	0.4	0
1595	Turbulence mitigation of four mode-division-multiplexed QPSK channels in a pilot-assisted self-coherent free-space optical link using a photodetector array and DSP-based channel demultiplexing. Optics Letters, 2024, 49, 1209.	3.3	0
1596	RF/FSO Mixed Communication System Incorporating Photonic Aggregation for Improved Spectral Efficiency and Suppressed Co-frequency Interference. , 2023, , .		0
1597	Optical Signal Attenuation through Smog in Controlled Laboratory Conditions. Photonics, 2024, 11, 172.	2.0	0
1598	Performance evaluation of the data transmission link with Bessel-Gaussian beams through a tunable smoke channel. Infrared Physics and Technology, 2024, 138, 105234.	2.9	0

#	ARTICLE	IF	CITATIONS
1599	Orbital angular momentum-mediated machine learning for high-accuracy mode-feature encoding. Light: Science and Applications, 2024, 13, .	16.6	0
1600	Performance Comparison of 2â€‰Ã—â€‰120 OAM Polarized Hybrid Multiplexed FSO System in Heavy Rain and Wet-Snow Weather Conditions. Wireless Personal Communications, 2023, 133, 2411-2426.	2.7	0
1601	Adjoint method in machine learning: A pathway to efficient inverse design of photonic devices. Materials and Design, 2024, 239, 112737.	7.0	0
1602	Security Analysis of A Mixed RF-FSO-VLC Triple Hop Cooperative Network. , 2023, , .		0
1603	Effect of Air Pollution on OFDM based RoFSO Transmission for Different Dust Conditions. , 2023, , .		0
1604	Improving fiber coupling efficiency by shaping the transmission trajectory of the vortex beam. Optics Communications, 2024, 561, 130491.	2.1	0
1605	Optical signal transmission for the visible light communication system through the waterâ€"air interface link. Journal of Optics (India), 0, , .	1.7	0
1606	A Comprehensive Review of UAV-Assisted FSO Relay Systems. Photonics, 2024, 11, 274.	2.0	0