Vuong Mai

List of Publications by Year
in descending order

67 papers	563 citations	687363 13 h-index	794594 19 g-index
68 all docs	68 docs citations	68 times ranked	366 citing authors

#	Article	IF	Citations
1	Beam Size Optimization and Adaptation for High-Altitude Airborne Free-Space Optical Communication Systems. IEEE Photonics Journal, 2019, 11, 1-13.	2.0	46
2	Adaptive beam control techniques for airborne free-space optical communication systems. Applied Optics, 2018, 57, 7462.	1.8	39
3	Hybrid free-space optics/millimeter-wave architecture for 5G cellular backhaul networks. , 2015, , .		29
4	Design and performance evaluation of VLC indoor positioning system using optical orthogonal codes. , 2014, , .		28
5	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
6	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
7	Performance of TCP Over Free-Space Optical Atmospheric Turbulence Channels. Journal of Optical Communications and Networking, 2013, 5, 1168.	4.8	20
8	Underwater optical wireless communication-based IoUT networks: MAC performance analysis and improvement. Optical Switching and Networking, 2020, 37, 100570.	2.0	20
9	Level Crossing Rate and Average Fade Duration of Satellite-to-UAV FSO Channels. IEEE Photonics Journal, 2021, 13, 1-14.	2.0	20
10	Beaconless PAT and adaptive beam control using variable focus lens for free-space optical communication systems. APL Photonics, 2021, 6, .	5.7	19
11	On the Design of Rate Adaptation for Relay-Assisted Satellite Hybrid FSO/RF Systems. IEEE Photonics Journal, 2022, 14, 1-11.	2.0	18
12	Adaptive multi-rate designs for hybrid FSO/RF systems over fading channels. , 2014, , .		17
13	On the Design of RIS-UAV Relay-Assisted Hybrid FSO/RF Satellite-Aerial-Ground Integrated Network. IEEE Transactions on Aerospace and Electronic Systems, 2022, , 1-15.	4.7	16
14	Throughput Analysis of Incremental Redundancy Hybrid ARQ for FSO-Based Satellite Systems. , 2019, , .		15
15	On the Throughput Performance of TCP Cubic in Millimeter-Wave Cellular Networks. IEEE Access, 2019, 7, 178618-178630.	4.2	15
16	Design and Performance Evaluation of Large-Scale VLC-Based Indoor Positioning Systems Under Impact of Receiver Orientation. IEEE Access, 2020, 8, 61891-61904.	4.2	15
17	Design and Analysis of Sliding Window ARQ Protocols With Rate Adaptation for Burst Transmission Over FSO Turbulence Channels. Journal of Optical Communications and Networking, 2019, 11, 151.	4.8	13
18	Link-Layer Retransmission-Based Error-Control Protocols in FSO Communications: A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 1602-1633.	39.4	12

#	ARTICLE	IF	CITATIONS
19	CSMA/CA-based uplink MAC protocol design and analysis for hybrid VLC/Wifi networks. , 2017, , .		11
20	Adaptive Multi-Rate Designs and Analysis for Hybrid FSO/RF Systems over Fading Channels. IEICE Transactions on Communications, 2015, E98.B, 1660-1671.	0.7	11
21	Mitigation of Effects of Angle-of-Arrival Fluctuation and Pointing Error on Airborne Free-Space Optical Systems. , 2019, , .		10
22	Link availability of satellite-based FSO communications in the presence of clouds and turbulence. IEICE Communications Express, 2021, 10, 206-211.	0.4	9
23	Performance Analysis of Cooperative-ARQ Schemes in Free-Space Optical Communications. IEICE Transactions on Communications, 2014, E97.B, 1614-1622.	0.7	8
24	Mitigation of Scintillation in FSOC Using RSOA-Based Spectrum-Sliced Incoherent Light. IEEE Photonics Technology Letters, 2021, 33, 227-230.	2.5	7
25	Probing Packet Retransmission Scheme in Underwater Optical Wireless Communication With Energy Harvesting. IEEE Access, 2021, 9, 34287-34297.	4.2	7
26	Dynamic Adaptive Beam Control System Using Variable Focus Lenses for Laser Inter-Satellite Link. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	7
27	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
28	TCP over Satellite-to-Unmanned Aerial/Ground Vehicles Laser Links: Hybla or Cubic?. , 2020, , .		6
29	Multiple-Aperture Direct-Detection Receiver Based on Maximal Ratio Combining for FSO Communication. IEEE Photonics Technology Letters, 2022, 34, 405-408.	2.5	6
30	Performance analysis of TCP over visible light communication networks with ARQâ€SR protocol. Transactions on Emerging Telecommunications Technologies, 2014, 25, 600-608.	3.9	5
31	Cross-layer design and analysis for FSO links using automatic repeat request and adaptive modulation/coding schemes. , 2014, , .		5
32	Integrated FSO/PON for Broadband Access Networks: A Comprehensive Protocol Stack Design and Analysis. , 2015, , .		5
33	Adaptive rate-based MAC protocols design and analysis for integrated FSO/PON networks. , 2015, , .		5
34	Performance analysis of parallel FSO/MMW systems with adaptive rate under weather effects. , 2015, , .		5
35	A PHY/MAC Cross-Layer Analysis for IEEE 802.15.7 Uplink Visible Local Area Network. IEEE Photonics Journal, 2019, 11, 1-17.	2.0	5
36	Average Transmission Rate and Outage Performance of Relay-Assisted Satellite Hybrid FSO/RF Systems. , 2021, , .		5

#	Article	IF	Citations
37	Beam Control and Tracking Techniques for High- Altitude Airborne Free-Space Optical Communication Systems. , 2020, , .		5
38	TCP over free-space optical links with ARQ and AMC: A cross-layer performance analysis. , 2016, , .		4
39	Link Availability of Airborne Free-Space Optical Communication Systems under Effect of Generalized Misalignment. , 2018, , .		4
40	Reliable Transmission for Underwater Optical Wireless Communication Networks with Energy Harvesting. , 2021, , .		4
41	Performance analysis of TCP over free-space optical links with ARQ-SR. , 2013, , .		3
42	Impact of reflections and ISI on the throughput of TCP over VLC networks with ARQ-SR protocol. , 2013, , .		3
43	SINR Performance Analysis of 3-D Underwater Optical Wireless Communication Networks. , 2019, , .		3
44	Wide Field-of-View Transceiver Design for Bidirectional Free-space Optical Communication Systems. , 2019, , .		3
45	Mitigation of Scintillation Effect Using Spectrum-Sliced Incoherent Light Source for Free-Space Optical Communication. , 2020, , .		3
46	Comprehensive performance analysis of satellite-to-ground FSO/QKD systems using key retransmission. Optical Engineering, 2020, 59, .	1.0	3
47	A Compact Angle-of-Arrival Tracking System for Free-Space Optical Communication Systems. , 2020, , .		3
48	Variable Focus Lens-Based Beam Steering and Divergence Control for WDM Free-Space Optical Communication. , 2022, , .		3
49	Tweaked binary tree algorithm to cope with capture effect and detection error in RFID systems. , 2015, , .		2
50	Sliding Window Protocols with Rate Adaptation for FSO Burst Transmission over Turbulence Channels. , 2018, , .		2
51	Modeling and Throughput Analysis of FSO Systems using GBN-ARQ and AR Transmission over Atmospheric Turbulence Channels. , 2018, , .		2
52	HAP-based Multi-hop FSO Systems Using All-Optical Relaying and Coherent Receiver. , 2019, , .		2
53	Reliability improvement of satellite-based quantum key distribution systems using retransmission scheme. Photonic Network Communications, 2021, 42, 27.	2.7	2
54	Throughput analysis of TCP over visible light communication indoor networks. , 2013, , .		1

#	Article	IF	Citations
55	On the performance of TCP cubic over fading channels with AMC schemes. , 2017, , .		1
56	Quantum key distribution solution over indoor visible light communication networks. , 2020, , .		1
57	TCP over hybrid FSO/RF-based satellite networks in the presence of cloud coverage. IEICE Communications Express, 2022, 11, 649-654.	0.4	1
58	A novel scheme of optical code-based header processing for OBS networks using JIT signaling. , 2012, , .		0
59	A novel access protocol for collision-free and low-latency OBS-ring networks. , 2013, , .		0
60	Integrated FSO/PON for Broadband Access Networks: A Comprehensive Protocol Stack Design and Analysis. , 2014, , .		0
61	Joint Queue-Aware and Channel-Aware for a Novel Operation of Hybrid FSO/RF Systems. , 2016, , .		0
62	Link Availability of Terrestrial Free-Space Optical Communication Systems in Korea Estimated by Using Macro-Meteorological Data. , 2018, , .		0
63	Comments on â€œCapacities for Long-Distance Free-Space Optical Links Under Beam Wander Effectsâ€. IEEE Photonics Technology Letters, 2018, 30, 1991-1993.	2.5	0
64	Alignment Error Mitigation Techniques for Airborne Free-Space Optical Communication Systems. , 2019, , .		0
65	Variable Focus Lens-Based Optical Beam Steering and Adaptive Beam Control Techniques for Free-Space Optical Communications. , 2021, , .		0
66	Beam Control and Tracking Techniques for Free-Space Optical Communications. , 2020, , .		0
67	Performance Enhancement of Satellite FSO/QKD Systems using HAP-based Relaying and ARQ. , 2020, , .		0