

# Zhiqun Gu

## List of Publications by Year in descending order

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32  
papers

1,273  
citations

623734

14  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Baseband unit cloud interconnection enabled by flexible grid optical networks with software defined elasticity. IEEE Communications Magazine, 2015, 53, 90-98.	6.1	651
2	Dynamic Traffic Grooming in Sliceable Bandwidth-Variable Transponder-Enabled Elastic Optical Networks. Journal of Lightwave Technology, 2015, 33, 183-191.	4.6	82
3	Towards converged, collaborative and co-automatic (3C) optical networks. Science China Information Sciences, 2018, 61, 1.	4.3	63
4	5G flexible optical transport networks with large-capacity, low-latency and high-efficiency. China Communications, 2019, 16, 19-32.	3.2	54
5	Performance evaluation of multi-stratum resources integrated resilience for software defined inter-data center interconnect. Optics Express, 2015, 23, 13384.	3.4	46
6	Network Topology Reconfiguration for FSO-Based Fronthaul/Backhaul in 5G+ Wireless Networks. IEEE Access, 2018, 6, 69426-69437.	4.2	40
7	Solution for error propagation in a NOMA-based VLC network: symmetric superposition coding. Optics Express, 2017, 25, 29856.	3.4	36
8	Artificial intelligence-driven autonomous optical networks: 3S architecture and key technologies. Science China Information Sciences, 2020, 63, 1.	4.3	36
9	SDN-Based End-to-End Fragment-Aware Routing for Elastic Data Flows in LEO Satellite-Terrestrial Network. IEEE Access, 2019, 7, 396-410.	4.2	34
10	Can Fine-Grained Functional Split Benefit to the Converged Optical-Wireless Access Networks in 5G and Beyond?. IEEE Transactions on Network and Service Management, 2020, 17, 1774-1787.	4.9	26
11	A Power and Spectrum Efficient NOMA Scheme for VLC Network Based on Hierarchical Pre-Distorted LACO-OFDM. IEEE Access, 2019, 7, 48565-48571.	4.2	24
12	Low-Latency Oriented Network Planning for MEC-Enabled WDM-PON Based Fiber-Wireless Access Networks. IEEE Access, 2019, 7, 183383-183395.	4.2	22
13	Joint Optimization of Latency and Deployment Cost Over TDM-PON Based MEC-Enabled Cloud Radio Access Networks. IEEE Access, 2020, 8, 681-696.	4.2	21
14	Phase-sensitive amplifier-based optical conversion for direct detection of complex modulation format to bridge long-haul transmissions and short-reach interconnects. Optics Express, 2020, 28, 2349.	3.4	21
15	2D-to-1D constellation reforming using phase-sensitive amplifier-based constellation squeezing and shifting. Optics Express, 2021, 29, 3724.	3.4	13
16	Simultaneous all-optical channel aggregation and de-aggregation based on nonlinear effects for OOK and MPSK formats in elastic optical networking. Optics Express, 2019, 27, 30158.	3.4	13
17	Optimizing Networked Flying Platform Deployment and Access Point Association in FSO-Based Fronthaul Networks. IEEE Wireless Communications Letters, 2020, 9, 1221-1225.	5.0	12
18	QPSK Signal Regeneration Based on Vector Phase Sensitive Amplification With Low Pump Powers. IEEE Access, 2019, 7, 63936-63943.	4.2	11

#	ARTICLE	IF	CITATIONS
19	Experimental demonstration of all-optical aggregation and de-aggregation for a QPSK signal in an elastic optical network. <i>Optics Express</i> , 2022, 30, 6456.	3.4	9
20	Topology Optimization for FSO-Based Fronthaul/Backhaul in 5G+ Wireless Networks. , 2018, , .		8
21	Design of All-Optical Modulation Format Converter From One 8PSK to Two QPSK Signals Based on Phase Sensitive Amplification in Elastic Optical Network. <i>IEEE Access</i> , 2019, 7, 51379-51385.	4.2	8
22	On-Chip Optical Vector Quadrature De-Multiplexer Proposal for QAM De-Aggregation by Single Bi-Directional SOA-Based Phase-Sensitive Amplifier. <i>IEEE Access</i> , 2019, 7, 763-772.	4.2	8
23	Topology Optimizing in FSO-based UAVs Relay Networks for Resilience Enhancement. <i>Mobile Networks and Applications</i> , 2020, 25, 350-362.	3.3	8
24	Ring-like reliable PON planning with physical constraints for a smart grid. <i>Optical Fiber Technology</i> , 2016, 27, 24-34.	2.7	7
25	All-Optical Multi-Level Phase Quantization Based on Phase-Sensitive Amplification With Low-Order Harmonics. <i>Journal of Lightwave Technology</i> , 2018, 36, 5833-5840.	4.6	7
26	A Quantum Access Network Suitable for Internetworking Optical Network Units. <i>IEEE Access</i> , 2019, 7, 92091-92099.	4.2	5
27	Tunable all-optical format conversion for BPSK to OOK based on highly nonlinear optical loop mirror. <i>Optics Communications</i> , 2020, 473, 125907.	2.1	4
28	Proactive Grooming With Delay Optimization in Sliceable Elastic Optical Network. <i>IEEE Access</i> , 2019, 7, 105030-105040.	4.2	2
29	Adaptability Analysis for IP Switching and Optical Switching in Geographically Distributed Inter-Datacenter Networks. <i>IEEE Access</i> , 2018, 6, 56851-56861.	4.2	1
30	All-optical simultaneous amplitude and phase regeneration for MPSK signal with ASE noise based on two-wave PSA. <i>Optics Communications</i> , 2021, 499, 127281.	2.1	1
31	Resilience Aware Topology Formation in FSO-based Fronthaul/Backhaul Networks. , 2018, , .		0
32	Efficient Aerial Relays Deployment in FSO-based Backhaul Networks. , 2018, , .		0