Marco Ruffini

List of Publications by Year
in descending order

45 papers	**1,054** citations	623734 **14** h-index	642732 **23** g-index
47 all docs	**47** docs citations	**47** times ranked	**972** citing authors

#	Article	IF	Citations
1	An Overview on Application of Machine Learning Techniques in Optical Networks. IEEE Communications Surveys and Tutorials, 2019, 21, 1383-1408.	39.4	374
2	DISCUS: an end-to-end solution for ubiquitous broadband optical access. , 2014, 52, S24-S32.		77
3	Multidimensional Convergence in Future 5G Networks. Journal of Lightwave Technology, 2017, 35, 535-549.	4.6	63
4	Deployment Strategies for Protected Long-Reach PON. Journal of Optical Communications and Networking, 2012, 4, 118.	4.8	54
5	Sharing Distributed and Heterogeneous Resources toward End-to-End 5G Networks: A Comprehensive Survey and a Taxonomy. IEEE Communications Surveys and Tutorials, 2020, 22, 1592-1628.	39.4	37
6	Virtual DBA: virtualizing passive optical networks to enable multi-service operation in true multi-tenant environments. Journal of Optical Communications and Networking, 2020, 12, B63.	4.8	31
7	SDN Enabled Dynamically Reconfigurable High Capacity Optical Access Architecture for Converged Services. Journal of Lightwave Technology, 2017, 35, 550-560.	4.6	30
8	Experimental End-to-End Demonstration of Shared N:M Dual-Homed Protection in SDN-Controlled Long-Reach PON and Pan-European Core. Journal of Lightwave Technology, 2016, 34, 4205-4213.	4.6	29
9	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. Journal of Lightwave Technology, 2020, 38, 5386-5392.	4.6	29
10	Virtual Dynamic Bandwidth Allocation Enabling True PON Multi-Tenancy. , 2017, , .		27
11	Performance Evaluation of a Hybrid Optical/Electrical Interconnect. Journal of Optical Communications and Networking, 2015, 7, 193.	4.8	24
12	Moving the Network to the Cloud: The Cloud Central Office Revolution and Its Implications for the Optical Layer. Journal of Lightwave Technology, 2019, 37, 1706-1716.	4.6	24
13	Backhauling mobile systems with XG-PON using grouped assured bandwidth. , 2014, , .		21
14	Nâˆ¶1 Protection Design for Minimizing OLTs in Resilient Dual-Homed Long-Reach Passive Optical Network. Journal of Optical Communications and Networking, 2016, 8, 93.	4.8	19
15	A Sharing Platform for Multi-Tenant PONs. Journal of Lightwave Technology, 2018, 36, 5413-5423.	4.6	19
16	Evaluating Dynamic Bandwidth Allocation of Virtualized Passive Optical Networks Over Mobile Traffic Traces. Journal of Optical Communications and Networking, 2016, 8, 129.	4.8	16
17	Evolution of Access Network Sharing and Its Role in 5G Networks. Applied Sciences (Switzerland), 2019, 9, 4566.	2.5	15
18	Virtualized EASTâ€"WEST PON architecture supporting low-latency communication for mobile functional split based on multiaccess edge computing. Journal of Optical Communications and Networking, 2020, 12, D109.	4.8	15

#	Article	IF	Citations
19	A Distributed Bilateral Resource Market Mechanism for Future Telecommunications Networks. , 2019, , .		14
20	Experimental Demonstration of SDN-controlled Variable-rate Fronthaul for Converged LTE-over-PON. , 2018, , .		11
21	Demonstration of Software-Defined Packet-Optical Network Emulation with Mininet-Optical and ONOS. , 2020, , .		11
22	A Variable Rate Fronthaul Scheme for Cloud Radio Access Networks. Journal of Lightwave Technology, 2019, 37, 3153-3165.	4.6	10
23	Cost analysis of rural roll-out using a long-reach passive optical network: trading off the upfront cost under uncertainty of the user take-up rate. Journal of Optical Communications and Networking, 2021, 13, 69.	4.8	9
24	Migration-Aware Network Services With Edge Computing. IEEE Transactions on Network and Service Management, 2022, 19, 1458-1471.	4.9	9
25	Active Wavelength Load as a Feature for QoT Estimation Based on Support Vector Machine. , 2019, , .		8
26	Th4B.1: Access-metro convergence in next generation broadband networks. , 2016, , .		8
27	Frame Level Sharing for DBA virtualization in multi-tenant PONs. , 2017, , .		7
28	Experimental End-to-End Demonstration of Shared N:1 Dual Homed Protection in Long Reach PON and SDN-Controlled Core. , 2015, , .		6
29	Hierarchical versus flat optical metro/core networks: A systematic cost and migration study. , 2016, , .		6
30	Performance analysis of QoT estimator in SDN-controlled ROADM networks. , 2018, , .		6
31	Learning Automata for Multi-Access Edge Computing Server Allocation with Minimal Service Migration. , 2020, , .		6
32	Real-Time QoT Estimation Through SDN Control Plane Monitoring Evaluated in Mininet-Optical. IEEE Photonics Technology Letters, 2021, 33, 1050-1053.	2.5	6
33	Demonstration of SDN Enabled Dynamically Reconfigurable High Capacity Optical Access for Converged Services. , 2016, , .		6
34	N:1 Protection Design for Minimising OLTs in Resilient Dual-Homed Long-Reach Passive Optical Network. , 2014, , .		5
35	Experimental Demonstration of DPDK Optimised VNF Implementation of Virtual DBA in a Multi-Tenant PON. , 2018, , .		5
36	Tailoring the network to the problem: topology configuration in hybrid electronic packet switched/optical circuit switched interconnects. Concurrency Computation Practice and Experience, 2013, 25, 2412-2432.	2.2	3

#	Article	IF	Citations
37	Connected OFCity Challenge: Addressing the Digital Divide in the Developing World. Journal of Optical Communications and Networking, 2019, 11, 354.	4.8	3
38	A Marketplace for Real-time Virtual PON Sharing. , 2018, , .		2
39	Trustless Virtual PON Sharing for 5G Services. , 2021, , .		2
40	Long-Reach Passive Optical Networks and Access/Metro Integration. Springer Handbooks, 2020, , 951-988.	0.6	2
41	Trusted distributed marketplace for virtual passive optical network sharing. Journal of Optical Communications and Networking, 2022, 14, B22.	4.8	2
42	FLATLANd: A novel SDN-based Telecoms network architecture enabling NFV and metro-Access convergence. , 2016, , .		1
43	Inter-operator dynamic capacity sharing for multi-tenant virtualized PON. , 2017, , .		1
44	3-Stage Hierarchical Quality of Service for Multi-tenant Passive Optical Networks. Lecture Notes in Computer Science, 2020, , 193-203.	1.3	0
45	A Performance Analysis of Supervised Learning Classifiers for QoT Estimation in ROADM-Based Networks. Lecture Notes in Computer Science, 2020, , 598-609.	1.3	0