Rastislav Roka

List of Publications by Year
in descending order

32 papers	134 citations	6 h-index	9 g-index
35 all docs	35 docs citations	35 times ranked	42 citing authors

#	Article	IF	Citations
1	Duobinary Modulation Format in Optical Communication Systems. Advances in Signal Processing, 2015, 3, 1-7.	0.1	13
2	Simulation and Analysis of the Signal Transmission in the Optical Transmission Medium. , 2015, , .		12
3	Simulation Platform of Optical Transmission System in Matlab Simulink. Procedia Computer Science, 2018, 134, 196-203.	2.0	10
4	Performance analysis and selection of wavelength channels based on the FWM effect influence in optical DWDM systems. Simulation Modelling Practice and Theory, 2022, 118, 102558.	3.8	10
5	Approach of the T-CONT Allocation to Increase the Bandwidth in Passive Optical Networks. Radioengineering, 2017, 26, 954-960.	0.6	9
6	The utilization of the DWDM/CWDM combination in the metro/access networks. , 0, , .		7
7	Optimization of the Optical Power Budget for Various WDM-PON Network Designs with Traffic Protection Securing. , 2018, , .		7
8	An Effective Evaluation of Wavelength Scheduling for Various WDM-PON Network Designs with Traffic Protection Provision. Symmetry, 2021, 13, 1540.	2.2	7
9	Possibilities for Advanced Encoding Techniques at Signal Transmission in the Optical Transmission Medium. Journal of Engineering (United States), 2016, 2016, 1-10.	1.0	6
10	Broadband NG-PON Networks and Their Designing Using the HPON Network Configurator. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 277-297.	0.4	5
11	The analysis of the effective utilization of PON and VDSL technologies in the access network. , 0, , .		4
12	Enhanced Simulation Tools for Analyzing Signal Processing Techniques in the Optical Transmission Path. Advances in Computer and Electrical Engineering Book Series, 2021, , 337-380.	0.3	4
13	Converged Fi-Wi Passive Optical Networks and Their Designing Using the HPON Network Configurator. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 150-184.	0.4	4
14	The extension of the HPON network configurator at designing of NG-PON networks. , 2011, , .		3
15	Verification of characteristics of the parametric model for the RC4 reference channel. , 2012, , .		3
16	Simulation Models of Pulse Generator for OTDR in Matlab and VPIphotonics. , 2018, , .		3
17	An effective integration of the PM 16-QAM modulation in enhanced metropolitan networks with the EDFA amplification. Journal of Electrical Engineering, 2020, 71, 317-325.	0.7	3
18	Analysis of modulation techniques utilized in the optical transmission medium. , 2012, , .		2

#	Article	IF	Citations
19	Analysis of possibilities for numerical simulations of continuous wave DFB laser. , 2017, , .		2
20	Bandwidth Scheduling Methods for the Upstream Traffic in Passive Optical Networks. Przeglad Elektrotechniczny, 2018, 1, 11-14.	0.2	2
21	The Analysis of SUCCESS HPON Networks Using the HPON Network Configurator. Advances in Electrical and Electronic Engineering, 2013, 11, .	0.3	2
22	Wavelength Allocation and Scheduling Methods for Various WDM-PON Network Designs With Traffic Protection Securing. Advances in Wireless Technologies and Telecommunication Book Series, 2020, , 1-39.	0.4	2
23	Performance Analysis of FSO Links in Turbulent Atmosphere. Advances in Wireless Technologies and Telecommunication Book Series, 2020, , 100-156.	0.4	2
24	Simulation of the optical erbium doped fiber amplification for performance analysis. Journal of Electrical Engineering, 2021, 72, 168-175.	0.7	1
25	Simulation Platform for Analyzing Environmental Effects in Multi-Wavelength Transmission Systems in Matlab Simulink. Przeglad Elektrotechniczny, 2019, 1, 11-16.	0.2	1
26	Performance Analysis of the FBMC Modulation Format in Optical Fiber and Wireless Communications. , 2021, , .		1
27	The Analysis of SARDANA HPON Networks Using the HPON Network Configurator. Advances in Electrical and Electronic Engineering, 2013, 11, .	0.3	1
28	Analysis and simulation of dynamic properties for the DFB laser. Przeglad Elektrotechniczny, 2018, 1, 19-22.	0.2	1
29	Experimental measurements for evaluation of the network throughput of the RC4 channel in the in-home PLC network. Journal of Electrical Engineering, 2019, 70, 25-31.	0.7	1
30	The utilization of the vectored DMT for the FEXT-free signal transmission by means of the VDSL technology. , 2008, , .		0
31	Analysis of advanced modulation techniques in the environment of metallic transmission media. , 2015, , .		0
32	Analyzing Influence of the Transmission Medium on Timing Signals Transmitted by Hybrid Optical Transport Technologies. International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems, 2017, 6, 19.	0.2	0