

# Rastislav Roka

## List of Publications by Year in descending order

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32  
papers

134  
citations

1478505

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h-index

1474206

9  
g-index

35  
all docs

35  
docs citations

35  
times ranked

42  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Simulation of the optical erbium doped fiber amplification for performance analysis. Journal of Electrical Engineering, 2021, 72, 168-175.	0.7	1
4	An Effective Evaluation of Wavelength Scheduling for Various WDM-PON Network Designs with Traffic Protection Provision. Symmetry, 2021, 13, 1540.	2.2	7
5	Performance Analysis of the FBMC Modulation Format in Optical Fiber and Wireless Communications. , 2021, , .		1
6	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
7	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
8	Performance Analysis of FSO Links in Turbulent Atmosphere. Advances in Wireless Technologies and Telecommunication Book Series, 2020, , 100-156.	0.4	2
9	Simulation Platform for Analyzing Environmental Effects in Multi-Wavelength Transmission Systems in Matlab Simulink. Przegląd Elektrotechniczny, 2019, 1, 11-16.	0.2	1
10	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
11	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
12	Simulation Platform of Optical Transmission System in Matlab Simulink. Procedia Computer Science, 2018, 134, 196-203.	2.0	10
13	Optimization of the Optical Power Budget for Various WDM-PON Network Designs with Traffic Protection Securing. , 2018, , .		7
14	Simulation Models of Pulse Generator for OTDR in Matlab and VPIphotonics. , 2018, , .		3
15	Bandwidth Scheduling Methods for the Upstream Traffic in Passive Optical Networks. Przegląd Elektrotechniczny, 2018, 1, 11-14.	0.2	2
16	Analysis and simulation of dynamic properties for the DFB laser. Przegląd Elektrotechniczny, 2018, 1, 19-22.	0.2	1
17	Analysis of possibilities for numerical simulations of continuous wave DFB laser. , 2017, , .		2
18	Approach of the T-CONT Allocation to Increase the Bandwidth in Passive Optical Networks. Radioengineering, 2017, 26, 954-960.	0.6	9

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Analysis of advanced modulation techniques in the environment of metallic transmission media. , 2015, , .		0
22	Duobinary Modulation Format in Optical Communication Systems. Advances in Signal Processing, 2015, 3, 1-7.	0.1	13
23	Simulation and Analysis of the Signal Transmission in the Optical Transmission Medium. , 2015, , .		12
24	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
25	The Analysis of SUCCESS HPON Networks Using the HPON Network Configurator. Advances in Electrical and Electronic Engineering, 2013, 11, .	0.3	2
26	The Analysis of SARDANA HPON Networks Using the HPON Network Configurator. Advances in Electrical and Electronic Engineering, 2013, 11, .	0.3	1
27	Verification of characteristics of the parametric model for the RC4 reference channel. , 2012, , .		3
28	Analysis of modulation techniques utilized in the optical transmission medium. , 2012, , .		2
29	The extension of the HPON network configurator at designing of NG-PON networks. , 2011, , .		3
30	The utilization of the vectored DMT for the FEXT-free signal transmission by means of the VDSL technology. , 2008, , .		0
31	The utilization of the DWDM/CWDM combination in the metro/access networks. , 0, , .		7
32	The analysis of the effective utilization of PON and VDSL technologies in the access network. , 0, , .		4