

M E V Segatto

List of Publications by Year in descending order

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95
all docs

95
docs citations

95
times ranked

823
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological multi-contingency screening based on current flow betweenness. Electric Power Systems Research, 2022, 203, 107609.	3.6	1
2	Dealing With Challenges Developing a Gateway to the “End of the World”The Brazilian Antarctic Station Case Study. IEEE Internet of Things Journal, 2022, 9, 15161-15168.	8.7	1
3	MIMO-PLC Communications in an Experimental Medium Voltage Network: Measurement and Analysis. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 102-113.	0.7	0
4	Label-free plasmonic immunosensor for cortisol detection in a D-shaped optical fiber. Biomedical Optics Express, 2022, 13, 3259.	2.9	73
5	A Low-Cost Smart Surveillance System Applied to Vehicle License Plate Tracking. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 141-156.	0.7	0
6	Experimental Demonstration of Constant-Envelope OFDM to Reduce Intermodulation Impairments and Increase Robustness Against Fiber Nonlinearities. Journal of Lightwave Technology, 2022, 40, 4983-4989.	4.6	1
7	Towards AI-enhanced VLC Systems. , 2022, , .		4
8	Fast decision-making tool for monitoring recirculation aquaculture systems based on a multivariate statistical analysis. Aquaculture, 2021, 530, 735931.	3.5	17
9	Detection of Multiple Small Temperature Events Simultaneously on a Distributed Temperature Map. IEEE Sensors Journal, 2021, 21, 4582-4589.	4.7	8
10	A Manchester-OOK Visible Light Communication System for Patient Monitoring in Intensive Care Units. IEEE Access, 2021, 9, 104217-104226.	4.2	9
11	Analytical investigation of the receiver for Raman-based distributed temperature sensors. Optical Fiber Technology, 2021, 63, 102484.	2.7	4
12	Time-domain uplink synchronization method for a spectral efficient OFDMA-based PON. Journal of Optical Communications and Networking, 2021, 13, 266.	4.8	0
13	An Optimized Self-Compensated Solution for Temperature and Strain Cross-Sensitivity in FBC Interrogators Based on Edge Filter. Sensors, 2021, 21, 5828.	3.8	4
14	Long-haul propagation analysis of dark pulses employing an optical recirculating fiber loop technique. Optics Communications, 2021, 495, 127070.	2.1	1
15	Power Line Communication based SmartPlug Prototype for Power Consumption Monitoring in Smart Homes. IEEE Latin America Transactions, 2021, 19, 1849-1857.	1.6	9
16	Increasing the LED Bias Point of an OFDM-based VLC System through Multi-objective Optimization. , 2021, , .		4
17	Remote Control in Smartphone-based Visible Light Communications. , 2021, , .		0
18	Evolving optical interconnection topology: from survivable rings to resilient meshes. Photonic Network Communications, 2020, 40, 149-159.	2.7	1

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19	A Theoretical and Experimental Evaluation on the Performance of LoRa Technology. IEEE Sensors Journal, 2020, 20, 9480-9489.	4.7	34
20	Reducing the time of C+L band Raman amplifiers design with an algorithm based on artificial intelligence. Optical Engineering, 2020, 59, 1.	1.0	1
21	Intrinsically Resilient Optical Backbones: An Efficient Ring-Based Interconnection Paradigm. Lecture Notes in Computer Science, 2020, , 248-260.	1.3	0
22	Closed-Form Expression for BER of CE-OFDM in Optical Intensity-Modulated Direct-Detection Systems. IEEE Communications Letters, 2019, 23, 1796-1800.	4.1	4
23	Study and Optimization of Raman Amplifiers in Tellurite-Based Optical Fibers for Wide-Band Telecommunication Systems. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2019, 18, 219-226.	0.7	4
24	Frequency Domain Interleaving for Dense WDM Passive Optical Network. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2019, 18, 196-207.	0.7	1
25	Adaptation to the LEDs flicker requirement in visible light communication systems through CE-OFDM signals. Optics Communications, 2019, 441, 14-20.	2.1	17
26	Optimizing C-RAN Backhaul Topologies: A Resilience-Oriented Approach Using Graph Invariants. Applied Sciences (Switzerland), 2019, 9, 136.	2.5	11
27	Increasing the Spectral Efficiency of DDO-CE-OFDM Systems by Multi-Objective Optimization. Journal of Lightwave Technology, 2019, 37, 2155-2162.	4.6	8
28	Direct Equalization with Convolutional Neural Networks in OFDM based VLC Systems. , 2019, , .		10
29	A New Approach for Contingency Analysis Based on Centrality Measures. IEEE Systems Journal, 2019, 13, 1915-1923.	4.6	19
30	Stable dark pulses produced by a graphite oxide saturable absorber in a fiber laser cavity. Applied Optics, 2019, 58, 9297.	1.8	6
31	Distributed Sensor Calibration by Gaussian Approximation. , 2019, , .		0
32	Experimental Analysis of Mach-Zehnder Modulator's Bias Point Enabling Long Distance Transmission Using a Recirculating Fiber Loop. , 2019, , .		0
33	High accuracy hot spot size estimation technique for Raman Distributed Temperature Sensors. , 2019, , .		1
34	Optical spectral intensity-based interrogation technique for liquid-level interferometric fiber sensors. Applied Optics, 2019, 58, 9712.	1.8	5
35	Polymer Optical Fiber for Angle and Torque Measurements of a Series Elastic Actuator's Spring. Journal of Lightwave Technology, 2018, 36, 1698-1705.	4.6	62
36	Feature selection for optical network design via a new mutual information estimator. Expert Systems With Applications, 2018, 107, 72-88.	7.6	5

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37	Polymer optical fiber strain gauge for human-robot interaction forces assessment on an active knee orthosis. Optical Fiber Technology, 2018, 41, 205-211.	2.7	58
38	Expected distance based on random walks. Journal of Mathematical Chemistry, 2018, 56, 618-629.	1.5	1
39	On the Impact of the Physical Topology on the Optical Network Performance. , 2018, , .		8
40	Analytical Analysis and Experimental Validation of a Multi-parameter Mach-Zehnder Fiber Optic Interferometric Sensor. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 528-538.	0.7	3
41	Fiber Bragg grating-based sensor for torque and angle measurement in a series elastic actuator's spring. Applied Optics, 2018, 57, 7883.	1.8	19
42	NARX neural network model for strong resolution improvement in a distributed temperature sensor. Applied Optics, 2018, 57, 5859.	1.8	29
43	A New All-Optical OFDM Architecture for NG-PON2. , 2018, , .		0
44	Increasing VLC Nonlinearity Tolerance by CE-OFDM. , 2018, , .		3
45	A MAC layer protocol for a bandwidth scalable OFDMA PON architecture. Computer Communications, 2017, 105, 145-156.	5.1	3
46	Evaluation of selective control information detection scheme in orthogonal frequency division multiplexing-based radio-over-fiber and visible light communication links. Optical Engineering, 2017, 56, 056108.	1.0	1
47	Electrical constant envelope signals for nonlinearity mitigation in coherent-detection orthogonal frequency-division multiplexing systems. Optical Engineering, 2017, 56, 066101.	1.0	3
48	Performance evaluation of CO-OFDM systems based on electrical constant-envelope signals. Optical Fiber Technology, 2017, 37, 30-34.	2.7	5
49	A practical technique for on-line monitoring of a photovoltaic plant connected to a single-phase grid. Energy Conversion and Management, 2017, 132, 198-206.	9.2	41
50	Impact of the phase modulation index in the performance of CO-OFDM systems based on electrical domain constant-envelope signals. , 2017, , .		0
51	The Smart Grid Concept in Oil & Gas Industries by a Field Trial of Data Communication in MV Power Lines. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2016, 15, 81-92.	0.7	6
52	Performance analysis and comparison of multipump Raman and hybrid erbium-doped fiber amplifier + Raman amplifiers using nondominated sorting genetic algorithm optimization. Optical Engineering, 2016, 55, 086103.	1.0	3
53	Experimental Demonstration of a 33.5-Gb/s OFDM-Based PON With Subcarrier Pre-Emphasis. IEEE Photonics Technology Letters, 2016, 28, 860-863.	2.5	8
54	A Multilayer Approach for Optical Network Planning. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2016, 15, 49-64.	0.7	2

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55	A complex network analysis of the Brazilian Power Test System. , 2015, , .		3
56	Impact of Optical Power in the Guard-Band Reduction of an Optimized DDO-OFDM System. Journal of Lightwave Technology, 2015, 33, 4717-4725.	4.6	20
57	Reducing the guard-band of a DDO-OFDM system by Multi-objective optimization. , 2015, , .		1
58	Signal-flow graph analysis in PLC multipath model. , 2015, , .		0
59	All-fibre transmission liquid level sensor based on core-cladding propagation modes interference. , 2015, , .		3
60	Transmission of CE-OFDM Signals Over MMF Links Using Directly Modulated 850-nm VCSELs. IEEE Photonics Technology Letters, 2015, 27, 315-318.	2.5	13
61	Fast optimization of multipump Raman amplifiers based on a simplified wavelength and power budget heuristic. Optical Engineering, 2015, 54, 015105.	1.0	2
62	How Reliable Are the Real-World Optical Transport Networks?. Journal of Optical Communications and Networking, 2015, 7, 578.	4.8	12
63	RWA problem with geodesics in realistic OTN topologies. Optical Switching and Networking, 2015, 15, 18-28.	2.0	5
64	Experimental Transmission of CE-OFDM Signals over 300 m of MMF Using an 850 nm VCSEL. , 2014, , .		0
65	Twin Datacenter Interconnection Topology. IEEE Micro, 2014, 34, 8-17.	1.8	39
66	Experimental validation of a constant-envelope OFDM system for optical direct-detection. Optical Fiber Technology, 2014, 20, 303-307.	2.7	24
67	Performance Optimization of DDO-OFDM Systems through Genetic Algorithms. , 2013, , .		0
68	A PAPR Reduction Technique Based on a Constant Envelope OFDM Approach for Fiber Nonlinearity Mitigation in Optical Direct-Detection Systems. Journal of Optical Communications and Networking, 2012, 4, 296.	4.8	51
69	Brillouin effect characterization in all-µRaman amplified 4 Å— 40 Gb/s WDM system. Microwave and Optical Technology Letters, 2012, 54, 1403-1407.	1.4	0
70	Simple design of Raman fiber amplifiers using a multi-objective optimizer. , 2011, , .		1
71	An unified approach for designing Optical Transport Networks. , 2011, , .		0
72	Optimization of Distributed Raman Amplifiers Using a Hybrid Genetic Algorithm With Geometric Compensation Technique. IEEE Photonics Journal, 2011, 3, 390-399.	2.0	30

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73	Design of a wideband hybrid EDFA with a Fiber Raman Amplifier. , 2011, , .		7
74	Design of distributed optical-fiber raman amplifiers using multi-objective particle swarm optimization. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2011, 10, 323-336.	0.7	10
75	Rayleigh assisted Brillouin effects in distributed Raman amplifiers under saturated conditions at 40 Gb/s. Microwave and Optical Technology Letters, 2010, 52, 1331-1335.	1.4	5
76	Numerical simulations and experimental results of a hybrid EDFA-Raman amplifier. , 2009, , .		4
77	Brillouin effects in distributed Raman amplifiers under saturated conditions. , 2009, , .		3
78	A bandwidth scalable OFDM passive optical network for future access network. Photonic Network Communications, 2009, 18, 409-416.	2.7	17
79	Numerical comparison between conventional dispersion compensating fibers and photonic crystal fibers as lumped Raman amplifiers. Optics Express, 2009, 17, 23169.	3.4	9
80	An Analytical Approximated Solution for the Gain of Broadband Raman Amplifiers With Multiple Counter-Pumps. Journal of Lightwave Technology, 2009, 27, 944-951.	4.6	28
81	OOTN -an ontology proposal for optical transport networks. , 2009, , .		8
82	A passive optical network based on centralized wavelength and bandwidth scalable OFDM signals. , 2009, , .		2
83	Software frameworks for information systems integration based on web services. , 2008, , .		1
84	Studies of different modulation techniques in the integration of SCM optical communication system. , 2008, , .		0
85	Performance of a free space optics subsystem boosted by SCM implementation. Proceedings of SPIE, 2008, , .	0.8	1
86	Broadband raman amplifier analytical model under experimental validation. , 2007, , .		1
87	A new acceleration technique for the design of fibre gratings. Optics Express, 2006, 14, 10715.	3.4	13
88	A feasibility study of powerline communication technology for digital inclusion in Brazilian Amazon. , 2006, 6390, 148.		4
89	Hybrid approaches for the design of mesh and hierarchical ring optical networks. , 2006, , .		0
90	Influence of fiber parameters on the performance of a SCM_QPSK transmission system. , 2006, , .		0

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91	Optimization of bragg grating in optical fiber using modified fitness function and an accelerated genetic algorithm. , 2006, , .		0
92	A feasibility study of PLC technology for digital inclusion. , 2006, , .		3
93	Numerical Routines for the Optimization of Pump Power and Wavelength in Distributed Raman Amplifiers. Fiber and Integrated Optics, 2006, 25, 347-361.	2.5	2
94	All optical bit parallel transmission systems. , 0, , .		1
95	Ensemble of classifier chains and decision templates for multi-label classification. Knowledge and Information Systems, 0, , 1.	3.2	3