MoisÃ©s R N Ribeiro

List of Publications by Year
in descending order

102 papers	1,466 citations	361413 20 h-index	361022 35 g-index
103 all docs	103 docs citations	103 times ranked	1407 citing authors

#	Article	IF	Citations
1	Liquid Level Measurement Based on FBG-Embedded Diaphragms With Temperature Compensation. IEEE Sensors Journal, 2018, 18, 193-200.	4.7	106
2	Simultaneous measurement of pressure and temperature with a single FBG embedded in a polymer diaphragm. Optics and Laser Technology, 2019, 112, 77-84.	4.6	91
3	Material features based compensation technique for the temperature effects in a polymer diaphragm-based FBG pressure sensor. Optics Express, 2018, 26, 20590.	3.4	75
4	FBG-Embedded 3-D Printed ABS Sensing Pads: The Impact of Infill Density on Sensitivity and Dynamic Range in Force Sensors. IEEE Sensors Journal, 2018, 18, 8381-8388.	4.7	74
5	A cost-effective edge-filter based FBG interrogator using catastrophic fuse effect micro-cavity interferometers. Measurement: Journal of the International Measurement Confederation, 2018, 124, 486-493.	5.0	69
6	Hybrid Opticalâ€“Wireless Access Networks. Proceedings of the IEEE, 2012, 100, 1197-1225.	21.3	67
7	Optical Fiber Sensing for Sub-Millimeter Liquid-Level Monitoring: A Review. IEEE Sensors Journal, 2019, 19, 7179-7191.	4.7	67
8	Low-Cost Interrogation Technique for Dynamic Measurements with FBG-Based Devices. Sensors, 2017, 17, 2414.	3.8	62
9	Corrosion Resistant FBG-Based Quasi-Distributed Sensor for Crude Oil Tank Dynamic Temperature Profile Monitoring. Sensors, 2015, 15, 30693-30703.	3.8	60
10	Polymethyl methacrylate (PMMA) recycling for the production of optical fiber sensor systems. Optics Express, 2017, 25, 30051.	3.4	58
11	A helpful method for controlled synthesis of monodisperse gold nanoparticles through response surface modeling. Arabian Journal of Chemistry, 2020, 13, 216-226.	4.9	52
12	Keyflow: a prototype for evolving SDN toward core network fabrics. IEEE Network, 2014, 28, 12-19.	6.9	48
13	Perrogator: A Portable Energy-Efficient Interrogator for Dynamic Monitoring of Wavelength-Based Sensors in Wearable Applications. Sensors, 2019, 19, 2962.	3.8	47
14	Twin Datacenter Interconnection Topology. IEEE Micro, 2014, 34, 8-17.	1.8	39
15	Envelope-based technique for liquid level sensors using an in-line fiber Machâ€“Zehnder interferometer. Applied Optics, 2016, 55, 9803.	2.1	31
16	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
17	RDNA: Residue-Defined Networking Architecture Enabling Ultra-Reliable Low-Latency Datacenters. IEEE Transactions on Network and Service Management, 2018, 15, 1473-1487.	4.9	28
18	Optimizing Linearity and Sensitivity of 3D-Printed Diaphragms With Chirped FBGs in CYTOP Fibers. IEEE Access, 2020, 8, 31983-31991.	4.2	28

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19	Preserving global optical QoS in FWM impaired dynamic networks. Electronics Letters, 2004, 40, 191.	1.0	27
20	VirtPhy: Fully Programmable NFV Orchestration Architecture for Edge Data Centers. IEEE Transactions on Network and Service Management, 2017, 14, 817-830.	4.9	24
21	Multi-Parameter Interferometric Sensor Based on a Reduced Diameter Core Axial Offseted Fiber. IEEE Photonics Technology Letters, 2017, 29, 239-242.	2.5	20
22	Gain profile optimization for Raman+EDFA hybrid amplifiers with recycled pumps for WDM systems. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2010, 9, 100-112.	0.7	16
23	Algorithms for FWM-aware routing and wavelength assignment. , 0, , .		15
24	KeySFC: Traffic steering using strict source routing for dynamic and efficient network orchestration. Computer Networks, 2020, 167, 106975.	5.1	15
25	Surface Plasmon Resonance-based Optical Fiber Sensors for H2S In Situ detection. Plasmonics, 2021, 16, 787-797.	3.4	15
26	The PoundCloud framework for ROS-based cloud robotics: Case studies on autonomous navigation and humanâ€“robot interaction. Robotics and Autonomous Systems, 2022, 150, 103981.	5.1	15
27	Meeting optical QoS requirements with reduced complexity in dynamic wavelength assignment. , 0, , .		13
28	Ultra Reliable Communication for Robot Mobility enabled by SDN Splitting of WiFi Functions. , 2018, , .		13
29	IoToF: A Long-Reach Fully Passive Low-Rate Upstream PHY for IoT over Fiber. Electronics (Switzerland), 2019, 8, 359.	3.1	13
30	On Human-in-the-Loop CPS in Healthcare: A Cloud-Enabled Mobility Assistance Service. Robotica, 2019, 37, 1477-1493.	1.9	13
31	Error-rate patterns for the modeling of optically amplified transmission systems. IEEE Journal on Selected Areas in Communications, 1997, 15, 707-716.	14.0	11
32	Optimizing C-RAN Backhaul Topologies: A Resilience-Oriented Approach Using Graph Invariants. Applied Sciences (Switzerland), 2019, 9, 136.	2.5	11
33	Combined Bending and Torsion Sensing by Induced Birefringence in Distributed Bragg Reflector Laser. Journal of Lightwave Technology, 2019, 37, 861-867.	4.6	11
34	Optically Cross-Braced Hypercube: a Reconfigurable Physical Layer for Interconnects and Server-Centric Datacenters. , 2012, , .		11
35	Multi-pump optimization for Raman+EDFA hybrid amplifiers under pump residual recycling. , 2009, , .		10
36	Improvements on performance of photonic packet switching nodes by priority assignment and buffer sharing. , 0, , .		8

#	Article	IF	Citations
37	FlexForward: Enabling an SDN manageable forwarding engine in Open vSwitch. , 2014, , .		8
38	Datacenter Thermal Monitoring Without Blind Spots: FBG-Based Quasi-Distributed Sensing. IEEE Sensors Journal, 2021, 21, 9869-9876.	4.7	8
39	KAR: Key-for-Any-Route, a Resilient Routing System. , 2016, , .		7
40	VirtPhy: A fully programmable infrastructure for efficient NFV in small data centers. , 2016, , .		7
41	FBG-Embedded Oblong Diaphragms with Extended Dynamic Range. , 2018, 2, 1-4.		7
42	Cloud Robotics Experimentation Testbeds: a Cloud-Based Navigation Case Study. , 2019, , .		7
43	PlaFFE: A Place-as-you-go In-network Framework for Flexible Embedding of VNFs. , 2020, , .		7
44	An SDN-NFV Orchestration for Reliable and Low Latency Mobility in Off-the-Shelf WiFi. , 2020, , .		7
45	Simple ILP approaches to grooming, routing, and wavelength assignment in WDM mesh networks. , 0, , .		6
46	Differentiated optical qos under a low complexity FWM-aware wavelength assignment algorithm. , 0, , .		6
47	Experimental evidences for visual evoked potentials with stimuli beyond the conscious perception threshold. , 2011, , .		6
48	Surface-Enhanced Raman Plasmon in Self-Assembled Sulfide-Coated Gold Nanoparticle Arrays. Plasmonics, 2015, 10, 1097-1103.	3.4	6
49	Optimal multilayer grooming-oriented design for inter-ring traffic protection in DNI multiring WDM networks. Journal of Optical Networking, 2008, 7, 533.	2.5	5
50	Energy efficient optical-wireless residential access/in-house networks. , 2011, , .		5
51	Towards a New Generation of Smart Devices for Mobility Assistance: CloudWalker, a Cloud-Enabled Cyber-Physical System. , 2018, , .		5
52	Programmable intelligent spaces for IndustryÂ4.0: Indoor visual localization driving attocell networks. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3610.	3.9	5
53	ML-Based DDoS Detection and Identification Using Native Cloud Telemetry Macroscopic Monitoring. Journal of Network and Systems Management, 2021, 29, 1.	4.9	5
54	Traffic management in photonic packet switching nodes by priority assignment and selective discarding. Computer Communications, 2001, 24, 1689-1701.	5.1	4

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55	Programmable residues defined networks for edge data centres. , 2017, , .		4
56	5G Research and Testbeds in Brazil. , 2019, , .		4
57	Programmable Data Planes as the Next Frontier for Networked Robotics Security: A ROS Use Case. , 2021, , .		4
58	Quasi-passive and reconfigurable optical node: Implementations with discrete latching switches. , 2012, , .		3
59	Power-Aware Multi-Layer Translucent Network Design: an Integrated OPEX/CAPEX Analysis. , 2014, , .		3
60	How can emerging applications benefit from EaaS in open programmable infrastructures?. , 2017, , .		3
61	Selectivity and Autoscaling as Complementary Defenses for DDoS Protection to Cloud Services. , 2019, , .		3
62	Deploying PolKA Source Routing in P4 Switches : (Invited Paper). , 2021, , .		3
63	O2CMF: Experiment-as-a-Service for Agile Fed4Fire Deployment of Programmable NFV. , 2018, , .		3
64	Latency Measurement as a Virtualized Network Function using Metherxis. Computer Communication Review, 2016, 46, 14-16.	1.8	3
65	Analysis of a multi-pump optimization in Raman+EDFA hybrid amplifiers with pump recycling for WDM systems. , 2010, , .		2
66	A low cost prototype for an optical and haptic pen. , 2011, , .		2
67	Comments on â€œLarge-Signal Theory of the Effect of Dispersive Propagation on the Intensity Modulation Response of Semiconductor Lasersâ€• Journal of Lightwave Technology, 2013, 31, 1337-1339.	4.6	2
68	Tackling OpenFlow power hog in core networks with KeyFlow. Electronics Letters, 2014, 50, 1847-1849.	1.0	2
69	Performance comparison for Raman+EDFA and EDFA+Raman hybrid amplifiers using recycled multiple pump lasers for WDM systems. , 2015, , .		2
70	Unobtrusive heart rate monitor based on a fiber specklegram sensor and a single-board computer. Proceedings of SPIE, 2015, , .	0.8	2
71	Power-Aware Rationale for Using Coarse-Grained Transponders in IP-Over-WDM Networks. Journal of Optical Communications and Networking, 2015, 7, 825.	4.8	2
72	Dynamic Backhauling within Converged Networks. , 2016, , .		2

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73	Interrogation of optical fiber based on the fusion of OFDR and TRA techniques. Optical and Quantum Electronics, 2016, 48, 1.	3.3	2
74	Optical and wireless network convergence in 5G systems â€“ an experimental approach. , 2018, , .		2
75	Limits on bit rate capacity improvement induced by SPM in installed standard fiber links at 1550 nm. , 0, , .		1
76	Optimization in Raman+EDFA hybrid amplifiers for WDM systems. , 2012, , .		1
77	Hybrid reconfiguration for upgrading datacenter interconnection topology. , 2012, , .		1
78	An optical performance monitoring method for Carrier Ethernet networks using OAM continuity check messages. Photonic Network Communications, 2012, 23, 74-82.	2.7	1
79	Polynomial-Time Complexity Large-Signal Model for DML-Based OOFDM Transmission Systems. IEEE Photonics Technology Letters, 2013, 25, 2393-2396.	2.5	1
80	Design of a stateless low-latency router architecture for green software-defined networking. , 2015, , .		1
81	Metherxis. , 2016, , .		1
82	Probing the Sulfur-Modified Capping Layer of Gold Nanoparticles Using Surface Enhanced Raman Spectroscopy (SERS) Effects. Applied Spectroscopy, 2017, 71, 2670-2680.	2.2	1
83	KeySFC. , 2019, , .		1
84	Evolving optical interconnection topology: from survivable rings to resilient meshes. Photonic Network Communications, 2020, 40, 149-159.	2.7	1
85	Temperature cross-sensitivity compensation in liquid level sensor using Mach-Zehnder interferometers. , 2019, , .		1
86	Amplifier spacing assessment for enhanced power soliton transmission over 10 Mm in standard and DS fibers. , 0, , .		0
87	An efficient and fully-scalable architecture applied to bufferless photonic nodes with DiffServ. , 0, , .		0
88	Ethernet over photonic packets: convergence model and performance assessment. , 0, , .		0
89	Complementary Optimal Approaches for Survivable WDM Mesh Network Design: Transceiver Deployment and Traffic Engineering. , 2006, , .		0
90	ILP approaches to study interconnection strategies for multi-ring networks in the presence of traffic grooming. , 2007, , .		0

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91	Gain flattening analysis for Raman+EDFA hybrid amplifiers using recycled pump power for WDM systems. Proceedings of SPIE, 2013, , .	0.8	0
92	Performance analysis of multi-pump Raman+EDFA hybrid amplifiers for WDM systems. , 2014, , .		0
93	Synthesis of gold nanoparticles for application as biosensors in engineering. Proceedings of SPIE, 2014, , .	0.8	0
94	Message from General Co-Chairs. , 2015, , .		0
95	Ultrasensitive nanosensor based on gold nanoparticles to detect vascular endothelial growth factor (VEGF). , 2015, , .		0
96	An intelligent and integrated architecture for data centers with distributed photonic switching. , 2017, , .		0
97	When optical networks meet wireless systems: experiments at the boundary. , 2018, , .		0
98	A cost-effective edge-filter-based FBG strain interrogator using catastrophic fuse effect microcavity interferometers. , 2018, , .		0
99	Temperature Cross-Sensitivity Optimization for Mach-Zehnder Interferometers Liquid Level Sensors. , 2019, , .		0
100	Experimental validation of a threeâ€dimensional modulation format for data transmission in RGB visible light communication systems. IET Communications, 2021, 15, 279-288.	2.2	0
101	Intrinsically Resilient Optical Backbones: An Efficient Ring-Based Interconnection Paradigm. Lecture Notes in Computer Science, 2020, , 248-260.	1.3	0
102	Line codes for photonically amplified digital links. , 0, , .		0