Arismar Cerqueira Sodre Junior

List of Publications by Year
in descending order

139	1,373	471509	414414
papers	citations	17 h-index	32 g-index

139	139	139	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toward Future Internet of Things Experimentation and Evaluation. IEEE Internet of Things Journal, 2022, 9, 8469-8484.	8.7	8
2	Computational Intelligence-Based Methodology for Antenna Development. IEEE Access, 2022, 10, 1860-1870.	4.2	5
3	A 64-Element and Dual-Polarized SICL-Based Slot Antenna Array Development Applied to TDD Massive MIMO. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 750-754.	4.0	7
4	Implementation of a Full Optically-Powered 5G NR Fiber-Wireless System. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	10
5	Linearization Schemes for Radio Over Fiber Systems Based on Machine Learning Algorithms. IEEE Photonics Technology Letters, 2022, 34, 279-282.	2.5	11
6	Optically-Powered Wireless Sensor Nodes towards Industrial Internet of Things. Sensors, 2022, 22, 57.	3.8	13
7	A Novel Full-wave Methodology for Channel Estimation in Digital mMIMO Applications. , 2022, , .		0
8	31 dBi-Gain Slotted Waveguide Antenna Array Using Wing-Based Reflectors. IEEE Access, 2022, 10, 57327-57338.	4.2	3
9	Low-Phase-Noise Tenfold Frequency Multiplication Based on Integrated Optical Frequency Combs. IEEE Photonics Technology Letters, 2022, 34, 878-881.	2.5	3
10	Non-Standalone 5G NR Fiber-Wireless System Using FSO and Fiber-Optics Fronthauls. Journal of Lightwave Technology, 2021, 39, 406-417.	4.6	37
11	RGB-based VLC system using 5G NR standard. Optics Communications, 2021, 481, 126542.	2.1	11
12	5G NR RoF System Based on a Monolithically Integrated Multi-Wavelength Transmitter. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	15
13	Fifthâ€generation new radio fiberâ€wireless system for longâ€reach and enhanced mobile broadband scenarios. Microwave and Optical Technology Letters, 2021, 63, 662-669.	1.4	2
14	5G NR FR2 Femtocell Coverage Map Using an Omnidirectional Twisted SWAA. IEEE Open Journal of Antennas and Propagation, 2021, 2, 72-78.	3.7	7
15	Peaceful Coexistence Between 5G NR and LTE-A Over a RoF-Based Fronthaul. , 2021, , .		1
16	Non-Standalone 5G NR FiWi System Based on a Photonic Integrated Multi-Wavelength Transmitter. IEEE Wireless Communications Letters, 2021, 10, 1001-1004.	5.0	3
17	Integrating Optical and Wireless Techniques towards Novel Fronthaul and Access Architectures in a 5G NR Framework. Applied Sciences (Switzerland), 2021, 11, 5048.	2.5	9
18	A LiDAR Architecture Based on Indirect ToF For Autonomous Cars. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 504-512.	0.7	1

#	Article	IF	Citations
19	Photonically-amplified Fronthaul Toward 5G Gbit/s Communications. , 2021, , .		0
20	3D-Printed Quasi-Cylindrical Bragg Reflector to Boost the Gain and Directivity of cm- and mm-Wave Antennas. Sensors, 2021, 21, 8014.	3.8	3
21	Machine Learning-based Fiber-Wireless Channel Estimation. , 2021, , .		0
22	A Multi-band 5G-NR Fiber-wireless System for Next-generation Networks. , 2021, , .		2
23	RoF/FSO-based Fronthaul for 5G Systems and Beyond. , 2021, , .		2
24	DSP-Based Flexible-Waveform and Multi-Application 5G Fiber-Wireless System. Journal of Lightwave Technology, 2020, 38, 642-653.	4.6	27
25	Quantum mechanical modeling and validation of photoconductive switches for RF and antenna applications. Microwave and Optical Technology Letters, 2020, 62, 1423-1430.	1.4	2
26	5G new radio photonically-amplified Xhaul. Optical Fiber Technology, 2020, 60, 102358.	2.7	1
27	Indoor Coexistence Analysis Among 5G New Radio, LTE-A and NB-IoT in the 700 MHz Band. IEEE Access, 2020, 8, 135000-135010.	4.2	16
28	A Low-Profile High-Gain Slotted Waveguide Antenna Array With Grooved Structures. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2107-2111.	4.0	8
29	Control Networks and Smart Grid Teleprotection: Key Aspects, Technologies, Protocols, and Case-Studies. IEEE Access, 2020, 8, 174049-174079.	4.2	22
30	Implementation of a multiband 5G NR fiber-wireless system using analog radio over fiber technology. Optics Communications, 2020, 474, 126112.	2.1	12
31	Multiband and Photonically Amplified Fiber-Wireless Xhaul. IEEE Access, 2020, 8, 44381-44390.	4.2	14
32	Dualâ€band switchedâ€beam antenna array for MIMO systems. IET Microwaves, Antennas and Propagation, 2020, 14, 82-87.	1.4	11
33	Multiband 5G NR system with photonic-assisted RF amplification. Optics Letters, 2020, 45, 1539.	3.3	5
34	A Novel Dielectric Slab Antenna Based on Microstrip-Franklin Excitation for mm-Waves. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2020, 19, 203-213.	0.7	4
35	Continuously Frequency-Tunable Horn Filtennas Based on Dual-Post Resonators. International Journal of Antennas and Propagation, 2019, 2019, 1-12.	1.2	4
36	Wideband Omnidirectional Slotted-Waveguide Antenna Array Based on Trapezoidal Slots. International Journal of Antennas and Propagation, 2019, 2019, 1-8.	1.2	7

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37	Dual-Band Wireless Fronthaul Using a FSS-Based Focal-Point/Cassegrain Antenna Assisted by an Optical Midhaul. IEEE Access, 2019, 7, 112578-112587.	4.2	10
38	Microwave-Photonics and WDM-PON Fronthaul for 5G Mobile Systems: Research Activities in Brazil. , 2019, , .		1
39	Coherent dualâ€band radar system based on a unique antenna and a photonicsâ€based transceiver. IET Radar, Sonar and Navigation, 2019, 13, 505-511.	1.8	11
40	Advancing NovaGenesis Architecture Towards Future Internet of Things. IEEE Internet of Things Journal, 2019, 6, 215-229.	8.7	23
41	Photonics-assisted Amplification for Baseband-over-Fiber Links. , 2019, , .		0
42	Dual-band Parabolic Antenna for High Capacity Backhauls and Fronthauls. , 2019, , .		1
43	Contribution for the Coexistence Analysis between 5G and 4G in the sub-1GHz Band. , 2019, , .		1
44	Integration of a GFDM-Based 5G Transceiver in a GPON Using Radio Over Fiber Technology. Journal of Lightwave Technology, 2018, 36, 4468-4477.	4.6	53
45	Thermal and dynamic range characterization of a photonics-based RF amplifier. Optics Communications, 2018, 414, 191-194.	2.1	11
46	Photonics-Based Dual-Band Radar for Landslides Monitoring in Presence of Multiple Scatterers. Journal of Lightwave Technology, 2018, 36, 2337-2343.	4.6	9
47	A Novel Approach for Designing Omnidirectional Slotted-Waveguide Antenna Arrays. , 2018, , .		4
48	NovaGenesis Applied to Information-Centric, Service-Defined, Trustable IoT/WSAN Control Plane and Spectrum Management. Sensors, 2018, 18, 3160.	3.8	4
49	Waveguide-Based Antenna Arrays for 5G Networks. International Journal of Antennas and Propagation, 2018, 2018, 1-10.	1.2	20
50	Development and Performance Analysis of a Photonics-Assisted RF Converter for 5G Applications. Fiber and Integrated Optics, 2017, 36, 25-37.	2.5	5
51	Optically Controlled Reconfigurable Antenna Array for mm-Wave Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2142-2145.	4.0	69
52	Multi-technology wireless coverage based on a leaky-wave reconfigurable antenna. , 2017, , .		4
53	Dual-band slotted waveguide antenna array for adaptive mm-wave 5G networks. , 2017, , .		19
54	All-optical RF amplification toward Gpbs communications and millimeter-waves applications. Microwave and Optical Technology Letters, 2017, 59, 2185-2189.	1.4	6

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55	Mechanically reconfigurable slotted-waveguide antenna array for 5G networks. , 2017, , .		9
56	Antenna development for 5G networks. , 2017, , .		3
57	Elastipipe: On Providing Cloud Elasticity for Pipeline-structured Applications. Lecture Notes on Data Engineering and Communications Technologies, 2017, , 293-304.	0.7	0
58	Cognitive radio in the context of internet of things using a novel future internet architecture called NovaGenesis. Computers and Electrical Engineering, 2017, 57, 147-161.	4.8	25
59	Thermal performance analysis of an all-optical and ultra-wideband RF amplification method for 5G networks. , 2017, , .		1
60	GPON-based front-end architecture for 5G networks. , 2017, , .		6
61	Photonics-based RF phase shifter for ultra-broadband communications. , 2017, , .		1
62	Photonicsâ€assisted wireless link based on mmâ€wave reconfigurable antennas. IET Microwaves, Antennas and Propagation, 2017, 11, 2071-2076.	1.4	7
63	FSS-based dual-band cassegrain parabolic antenna for RadarCom applications. , 2017, , .		4
64	Dual-band antenna array with beam steering for mm-waves 5G networks. , 2017, , .		3
65	Investigation on the deployment of FSS as electromagnetic shielding for 5G devices. , 2017, , .		5
66	Implementation of an optically-controlled antenna in a dual-band communications system: Systemic characterization with photonic down conversion. , 2017, , .		1
67	Implementation of a broadband photonics-assisted RF amplifier toward 5G networks. , 2017, , .		2
68	Dual use architecture for innovative lidar and free space optical communications. Applied Optics, 2017, 56, 8811.	1.8	6
69	Optically Controlled Reconfigurable Filtenna. International Journal of Antennas and Propagation, 2016, 2016, 1-9.	1.2	15
70	Lowâ€cost softwareâ€defined wireless cognitive network based on realâ€time multiâ€sector spectrum sensing and reconfigurable antenna array. Microwave and Optical Technology Letters, 2016, 58, 1929-1934.	1.4	0
71	Dual-use system combining simultaneous active radar & communication, based on a single photonics-assisted transceiver. , 2016, , .		16
72	Electromagnetic characterization and validation of aircraft composite materials. , 2016, , .		0

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73	A novel dual-polarization and dual-band slotted waveguide antenna array for dual-use radars. , 2016, , .		11
74	Ultra-broadband Photonics-Based RF Front-End Toward 5G Networks. Journal of Optical Communications and Networking, 2016, 8, B35.	4.8	21
75	Reconfigurable printed antenna arrays for mm-wave applications. , 2016, , .		7
76	Photonicâ€assisted microwave amplification using fourâ€wave mixing. IET Optoelectronics, 2016, 10, 163-168.	3.3	13
77	Photonic Downconversion and Optically Controlled Reconfigurable Antennas in mm-waves Wireless Networks. , 2016, , .		4
78	Development of a printed antenna array based on Sierpinski carpet fractal elements. , 2015, , .		1
79	Photonics-based tunable and broadband radio frequency converter. Optical Engineering, 2015, 55, 031118.	1.0	6
80	A printed log-periodic antenna based on fractal tree elements. , 2015, , .		1
81	Frequency-agile E-shaped printed antenna for millimeter waves applications. , 2015, , .		1
82	High-performance omnidirectional dual-reflector antenna based on a dieletric subrefletor support. , 2015, , .		1
83	A dual-band slotted waveguide antenna array for radars applications. , 2015, , .		9
84	Service-oriented, name-based, and software-defined spectrum sensing and dynamic resource allocation for Wi-Fi networks using NovaGenesis. , 2015, , .		0
85	Implementation of a photonics-based frequency reconfigurable optical-wireless network. , 2015, , .		0
86	Development and performance analysis of a photonic-assisted RF amplifier. , 2015, , .		0
87	Reconfigurable Optical-Wireless Communications for Future Generations. IEEE Latin America Transactions, 2015, 13, 3580-3584.	1.6	2
88	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. Optical Fiber Technology, 2015, 22, 36-41.	2.7	1
89	Reconfigurable multiâ€band radioâ€frequency transceiver based on photonics technology for future optical wireless communications. IET Optoelectronics, 2015, 9, 257-262.	3.3	13
90	Cognitive broadband optical-wireless network. , 2015, , .		0

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91	Radio over fiber system amplified using technique FWM with reconfigurable antenna frequency. , 2015, , .		0
92	Integrated multi-frequency lidar / radar system for precise and robust Doppler measurements. , 2015, , .		1
93	Tunable dual-frequency lidar exploiting a mode-locked laser for integrated coherent radar-lidar architectures. , 2015, , .		1
94	Optically Controlled Reconfigurable Antenna Array Based on E-Shaped Elements. International Journal of Antennas and Propagation, 2014, 2014, 1-8.	1.2	10
95	Implementation of an Optical-Wireless Network with Spectrum Sensing and Dynamic Resource Allocation Using Optically Controlled Reconfigurable Antennas. International Journal of Antennas and Propagation, 2014, 2014, 1-11.	1.2	17
96	Silicon nitride for nonlinear optics applications in the telecommunications C-band deposited by ECR-CVD. , 2014, , .		0
97	Expanding frequency comb by means of enhanced multiple four-wave mixing. , 2014, , .		0
98	Tri-band slotted waveguide antenna array for millimetric-waves applications. , 2014, , .		7
99	Propagation analysis of remote sensing in a rainforest environment. , 2014, , .		0
100	Numerical investigation of airborne radars for remote sensing applications. Microwave and Optical Technology Letters, 2014, 56, 1473-1478.	1.4	3
101	Multiphysics design methodology for photonic-based phased array antennas. Microwave and Optical Technology Letters, 2014, 56, 838-843.	1.4	2
102	Development of tri-band RF filters using evolutionary strategy. AEU - International Journal of Electronics and Communications, 2014, 68, 1156-1164.	2.9	6
103	Frequency comb expansion based on optical feedback, highly nonlinear and erbium-doped fibers. Optics Communications, 2014, 312, 287-291.	2.1	15
104	Convergent and reconfigurable optical-wireless network for LTE and Wi-Fi offloading applications. , 2014, , .		1
105	Theoretical Investigation of a Quasi-Distributed Current Sensor Based on Hybrid PCF. , 2014, , .		0
106	Tri-band RF filters optimization using evolutionary strategy. , 2013, , .		1
107	Optically controlled E-antenna for cognitive and adaptive radio over fiber systems. , 2013, , .		1
108	Birefringence of Hybrid PCF and Its Sensitivity to Strain and Temperature. Journal of Lightwave Technology, 2012, 30, 1422-1432.	4.6	30

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109	Numerical and experimental analysis of polarization properties from hybrid PCFs across different photonic bandgaps. Optical Fiber Technology, 2012, 18, 462-469.	2.7	11
110	Implementation and performance investigation of radioâ€overâ€fiber systems in wireless sensor networks. Microwave and Optical Technology Letters, 2012, 54, 2669-2675.	1.4	11
111	Generation of quaternaryâ€amplitude microwave signals by using a new optical heterodyne technique. Microwave and Optical Technology Letters, 2012, 54, 2738-2743.	1.4	8
112	Efficient energy transfer between photonic bandgaps. , 2012, , .		1
113	Impact evaluation of Radio over Fiber technology in Wireless Sensor Networks. , 2011, , .		3
114	Broadband single-polarization guidance in hybrid photonic crystal fibers. Optics Letters, 2011, 36, 133.	3.3	24
115	Investigation of noise sources in Radio-over-Fiber systems for Wi-Fi applications. , 2011, , .		2
116	Polarization analysis across different photonic bandgaps of Hybrid Photonic Crystal Fibers. , 2011, , .		0
117	A new optical heterodyne technique for generating multi-amplitude microwave signals. , 2011, , .		1
118	Broadband second harmonic generation of an optical frequency comb produced by four-wave mixing in highly nonlinear fibers. Optics Communications, 2010, 283, 1459-1462.	2.1	5
119	Tridimensional Yagi antenna: shaping radiation pattern with a non-planar array. IET Microwaves, Antennas and Propagation, 2010, 4, 1434.	1.4	4
120	Single-polarization state Hybrid Photonic Crystal Fiber. , 2010, , .		1
121	Recent progress and novel applications of photonic crystal fibers. Reports on Progress in Physics, 2010, 73, 024401.	20.1	133
122	Birefringence properties of hybrid photonic crystal fibers. , 2009, , .		1
123	Large hollow-core fiber random dye laser. , 2009, , .		0
124	Second harmonic generation of cascaded four-wave mixing. , 2009, , .		1
125	Performance analysis of a Radio over Fiber system based on IEEE 802.15.4 standard in a real optical network. Microwave and Optical Technology Letters, 2009, 51, 1876-1879.	1.4	8
126	Broadband cascaded four-wave mixing by using a three-pump technique in optical fibers. Optics Communications, 2009, 282, 4436-4439.	2.1	20

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127	Performance investigation of microphotonic-silicon devices in a field-trial all-optical network. Optics Communications, 2009, 282, 849-855.	2.1	5
128	Tridimensional Yagi Antenna. , 2009, , .		5
129	Full nonlinear conversion of a 200 nm comb produced by multiple four-wave mixing in a highly nonlinear fiber. , 2009, , .		1
130	Temperature Response of Photonic Bandgap Fibers based on High-Index Inclusions. , 2009, , .		2
131	PCFDT: An accurate and friendly photonic crystal fiber design tool. Optik, 2008, 119, 723-732.	2.9	6
132	Nonlinear interaction between two different photonic bandgaps of a hybrid photonic crystal fiber. Optics Letters, 2008, 33, 2080.	3.3	24
133	Highly efficient generation of broadband cascaded four-wave mixing products. Optics Express, 2008, 16, 2816.	3.4	131
134	Multiple four-wave mixing in ultra-flattened dispersion photonic crystal fibers. , 2008, , .		3
135	Broadband generation of cascaded Four-Wave Mixing products. , 2007, , .		2
136	Hybrid photonic crystal fiber. Optics Express, 2006, 14, 926.	3.4	125
137	Design and fabrication of hybrid photonic crystal fibers. , 2006, , .		2
138	A novel approach for endlessly single-mode photonic crystal fiber design. , 2004, , .		0
139	Experimental analysis of a CDMA adaptive system performance. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 356-359.	4.0	6