

Arismar Cerqueira Sodre Junior

List of Publications by Year in descending order

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139
papers

1,373
citations

471509

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32
g-index

139
all docs

139
docs citations

139
times ranked

1111
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress and novel applications of photonic crystal fibers. Reports on Progress in Physics, 2010, 73, 024401.	20.1	133
2	Highly efficient generation of broadband cascaded four-wave mixing products. Optics Express, 2008, 16, 2816.	3.4	131
3	Hybrid photonic crystal fiber. Optics Express, 2006, 14, 926.	3.4	125
4	Optically Controlled Reconfigurable Antenna Array for mm-Wave Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2142-2145.	4.0	69
5	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
6	Non-Standalone 5G NR Fiber-Wireless System Using FSO and Fiber-Optics Fronthauls. Journal of Lightwave Technology, 2021, 39, 406-417.	4.6	37
7	Birefringence of Hybrid PCF and Its Sensitivity to Strain and Temperature. Journal of Lightwave Technology, 2012, 30, 1422-1432.	4.6	30
8	DSP-Based Flexible-Waveform and Multi-Application 5G Fiber-Wireless System. Journal of Lightwave Technology, 2020, 38, 642-653.	4.6	27
9	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
10	Nonlinear interaction between two different photonic bandgaps of a hybrid photonic crystal fiber. Optics Letters, 2008, 33, 2080.	3.3	24
11	Broadband single-polarization guidance in hybrid photonic crystal fibers. Optics Letters, 2011, 36, 133.	3.3	24
12	Advancing NovaGenesis Architecture Towards Future Internet of Things. IEEE Internet of Things Journal, 2019, 6, 215-229.	8.7	23
13	Control Networks and Smart Grid Teleprotection: Key Aspects, Technologies, Protocols, and Case-Studies. IEEE Access, 2020, 8, 174049-174079.	4.2	22
14	Ultra-broadband Photonics-Based RF Front-End Toward 5G Networks. Journal of Optical Communications and Networking, 2016, 8, B35.	4.8	21
15	Broadband cascaded four-wave mixing by using a three-pump technique in optical fibers. Optics Communications, 2009, 282, 4436-4439.	2.1	20
16	Waveguide-Based Antenna Arrays for 5G Networks. International Journal of Antennas and Propagation, 2018, 2018, 1-10.	1.2	20
17	Dual-band slotted waveguide antenna array for adaptive mm-wave 5G networks. , 2017, , .		19
18	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

#	ARTICLE	IF	CITATIONS
19	Dual-use system combining simultaneous active radar & communication, based on a single photonics-assisted transceiver. , 2016, , .		16
20	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
21	Frequency comb expansion based on optical feedback, highly nonlinear and erbium-doped fibers. Optics Communications, 2014, 312, 287-291.	2.1	15
22	Optically Controlled Reconfigurable Filtenna. International Journal of Antennas and Propagation, 2016, 2016, 1-9.	1.2	15
23	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
24	Multiband and Photonically Amplified Fiber-Wireless Xhaul. IEEE Access, 2020, 8, 44381-44390.	4.2	14
25	Reconfigurable multi-band radio-frequency transceiver based on photonics technology for future optical wireless communications. IET Optoelectronics, 2015, 9, 257-262.	3.3	13
26	Photonic-assisted microwave amplification using four-wave mixing. IET Optoelectronics, 2016, 10, 163-168.	3.3	13
27	Optically-Powered Wireless Sensor Nodes towards Industrial Internet of Things. Sensors, 2022, 22, 57.	3.8	13
28	Implementation of a multiband 5G NR fiber-wireless system using analog radio over fiber technology. Optics Communications, 2020, 474, 126112.	2.1	12
29	Numerical and experimental analysis of polarization properties from hybrid PCFs across different photonic bandgaps. Optical Fiber Technology, 2012, 18, 462-469.	2.7	11
30	Implementation and performance investigation of radio-over-fiber systems in wireless sensor networks. Microwave and Optical Technology Letters, 2012, 54, 2669-2675.	1.4	11
31	A novel dual-polarization and dual-band slotted waveguide antenna array for dual-use radars. , 2016, , .		11
32	Thermal and dynamic range characterization of a photonics-based RF amplifier. Optics Communications, 2018, 414, 191-194.	2.1	11
33	Coherent dual-band radar system based on a unique antenna and a photonics-based transceiver. IET Radar, Sonar and Navigation, 2019, 13, 505-511.	1.8	11
34	Dual-band switched-beam antenna array for MIMO systems. IET Microwaves, Antennas and Propagation, 2020, 14, 82-87.	1.4	11
35	RGB-based VLC system using 5G NR standard. Optics Communications, 2021, 481, 126542.	2.1	11
36	Linearization Schemes for Radio Over Fiber Systems Based on Machine Learning Algorithms. IEEE Photonics Technology Letters, 2022, 34, 279-282.	2.5	11

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37	Optically Controlled Reconfigurable Antenna Array Based on E-Shaped Elements. International Journal of Antennas and Propagation, 2014, 2014, 1-8.	1.2	10
38	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
39	Implementation of a Full Optically-Powered 5G NR Fiber-Wireless System. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	10
40	A dual-band slotted waveguide antenna array for radars applications. , 2015, , .		9
41	Mechanically reconfigurable slotted-waveguide antenna array for 5G networks. , 2017, , .		9
42	Photonics-Based Dual-Band Radar for Landslides Monitoring in Presence of Multiple Scatterers. Journal of Lightwave Technology, 2018, 36, 2337-2343.	4.6	9
43	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
44	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
45	Generation of quaternary amplitude microwave signals by using a new optical heterodyne technique. Microwave and Optical Technology Letters, 2012, 54, 2738-2743.	1.4	8
46	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
47	Toward Future Internet of Things Experimentation and Evaluation. IEEE Internet of Things Journal, 2022, 9, 8469-8484.	8.7	8
48	Tri-band slotted waveguide antenna array for millimetric-waves applications. , 2014, , .		7
49	Reconfigurable printed antenna arrays for mm-wave applications. , 2016, , .		7
50	Photonics-assisted wireless link based on mm-wave reconfigurable antennas. IET Microwaves, Antennas and Propagation, 2017, 11, 2071-2076.	1.4	7
51	Wideband Omnidirectional Slotted-Waveguide Antenna Array Based on Trapezoidal Slots. International Journal of Antennas and Propagation, 2019, 2019, 1-8.	1.2	7
52	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
53	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
54	Experimental analysis of a CDMA adaptive system performance. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 356-359.	4.0	6

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55	PCFDT: An accurate and friendly photonic crystal fiber design tool. <i>Optik</i> , 2008, 119, 723-732.	2.9	6
56	Development of tri-band RF filters using evolutionary strategy. <i>AEU - International Journal of Electronics and Communications</i> , 2014, 68, 1156-1164.	2.9	6
57	Photonics-based tunable and broadband radio frequency converter. <i>Optical Engineering</i> , 2015, 55, 031118.	1.0	6
58	All-optical RF amplification toward Gpbs communications and millimeter-waves applications. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 2185-2189.	1.4	6
59	GPON-based front-end architecture for 5G networks. , 2017, , .		6
60	Dual use architecture for innovative lidar and free space optical communications. <i>Applied Optics</i> , 2017, 56, 8811.	1.8	6
61	Performance investigation of microphotonic-silicon devices in a field-trial all-optical network. <i>Optics Communications</i> , 2009, 282, 849-855.	2.1	5
62	Tridimensional Yagi Antenna. , 2009, , .		5
63	Broadband second harmonic generation of an optical frequency comb produced by four-wave mixing in highly nonlinear fibers. <i>Optics Communications</i> , 2010, 283, 1459-1462.	2.1	5
64	Development and Performance Analysis of a Photonics-Assisted RF Converter for 5G Applications. <i>Fiber and Integrated Optics</i> , 2017, 36, 25-37.	2.5	5
65	Investigation on the deployment of FSS as electromagnetic shielding for 5G devices. , 2017, , .		5
66	Multiband 5G NR system with photonic-assisted RF amplification. <i>Optics Letters</i> , 2020, 45, 1539.	3.3	5
67	Computational Intelligence-Based Methodology for Antenna Development. <i>IEEE Access</i> , 2022, 10, 1860-1870.	4.2	5
68	Tridimensional Yagi antenna: shaping radiation pattern with a non-planar array. <i>IET Microwaves, Antennas and Propagation</i> , 2010, 4, 1434.	1.4	4
69	Multi-technology wireless coverage based on a leaky-wave reconfigurable antenna. , 2017, , .		4
70	FSS-based dual-band cassegrain parabolic antenna for RadarCom applications. , 2017, , .		4
71	A Novel Approach for Designing Omnidirectional Slotted-Waveguide Antenna Arrays. , 2018, , .		4
72	NovaGenesis Applied to Information-Centric, Service-Defined, Trustable IoT/WSAN Control Plane and Spectrum Management. <i>Sensors</i> , 2018, 18, 3160.	3.8	4

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73	Continuously Frequency-Tunable Horn Filtennas Based on Dual-Post Resonators. International Journal of Antennas and Propagation, 2019, 2019, 1-12.	1.2	4
74	Photonic Downconversion and Optically Controlled Reconfigurable Antennas in mm-waves Wireless Networks. , 2016, , .		4
75	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
76	Multiple four-wave mixing in ultra-flattened dispersion photonic crystal fibers. , 2008, , .		3
77	Impact evaluation of Radio over Fiber technology in Wireless Sensor Networks. , 2011, , .		3
78	Numerical investigation of airborne radars for remote sensing applications. Microwave and Optical Technology Letters, 2014, 56, 1473-1478.	1.4	3
79	Antenna development for 5G networks. , 2017, , .		3
80	Dual-band antenna array with beam steering for mm-waves 5G networks. , 2017, , .		3
81	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
82	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
83	31 dBi-Gain Slotted Waveguide Antenna Array Using Wing-Based Reflectors. IEEE Access, 2022, 10, 57327-57338.	4.2	3
84	Low-Phase-Noise Tenfold Frequency Multiplication Based on Integrated Optical Frequency Combs. IEEE Photonics Technology Letters, 2022, 34, 878-881.	2.5	3
85	Design and fabrication of hybrid photonic crystal fibers. , 2006, , .		2
86	Broadband generation of cascaded Four-Wave Mixing products. , 2007, , .		2
87	Investigation of noise sources in Radio-over-Fiber systems for Wi-Fi applications. , 2011, , .		2
88	Multiphysics design methodology for photonic-based phased array antennas. Microwave and Optical Technology Letters, 2014, 56, 838-843.	1.4	2
89	Reconfigurable Optical-Wireless Communications for Future Generations. IEEE Latin America Transactions, 2015, 13, 3580-3584.	1.6	2
90	Implementation of a broadband photonics-assisted RF amplifier toward 5G networks. , 2017, , .		2

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91	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
92	Fifth-generation new radio fiber-wireless system for long-reach and enhanced mobile broadband scenarios. Microwave and Optical Technology Letters, 2021, 63, 662-669.	1.4	2
93	Temperature Response of Photonic Bandgap Fibers based on High-Index Inclusions. , 2009, , .		2
94	A Multi-band 5G-NR Fiber-wireless System for Next-generation Networks. , 2021, , .		2
95	RoF/FSO-based Fronthaul for 5G Systems and Beyond. , 2021, , .		2
96	Birefringence properties of hybrid photonic crystal fibers. , 2009, , .		1
97	Second harmonic generation of cascaded four-wave mixing. , 2009, , .		1
98	Single-polarization state Hybrid Photonic Crystal Fiber. , 2010, , .		1
99	A new optical heterodyne technique for generating multi-amplitude microwave signals. , 2011, , .		1
100	Tri-band RF filters optimization using evolutionary strategy. , 2013, , .		1
101	Optically controlled E-antenna for cognitive and adaptive radio over fiber systems. , 2013, , .		1
102	Convergent and reconfigurable optical-wireless network for LTE and Wi-Fi offloading applications. , 2014, , .		1
103	Development of a printed antenna array based on Sierpinski carpet fractal elements. , 2015, , .		1
104	A printed log-periodic antenna based on fractal tree elements. , 2015, , .		1
105	Frequency-agile E-shaped printed antenna for millimeter waves applications. , 2015, , .		1
106	High-performance omnidirectional dual-reflector antenna based on a dielectric subreflector support. , 2015, , .		1
107	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. Optical Fiber Technology, 2015, 22, 36-41.	2.7	1
108	Integrated multi-frequency lidar / radar system for precise and robust Doppler measurements. , 2015, , .		1

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109	Tunable dual-frequency lidar exploiting a mode-locked laser for integrated coherent radar-lidar architectures. , 2015, , .		1
110	Thermal performance analysis of an all-optical and ultra-wideband RF amplification method for 5G networks. , 2017, , .		1
111	Photonics-based RF phase shifter for ultra-broadband communications. , 2017, , .		1
112	Implementation of an optically-controlled antenna in a dual-band communications system: Systemic characterization with photonic down conversion. , 2017, , .		1
113	Microwave-Photonics and WDM-PON Fronthaul for 5G Mobile Systems: Research Activities in Brazil. , 2019, , .		1
114	5G new radio photonicallly-amplified Xhaul. Optical Fiber Technology, 2020, 60, 102358.	2.7	1
115	Peaceful Coexistence Between 5G NR and LTE-A Over a RoF-Based Fronthaul. , 2021, , .		1
116	A LiDAR Architecture Based on Indirect ToF For Autonomous Cars. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 504-512.	0.7	1
117	Full nonlinear conversion of a 200 nm comb produced by multiple four-wave mixing in a highly nonlinear fiber. , 2009, , .		1
118	Efficient energy transfer between photonic bandgaps. , 2012, , .		1
119	Dual-band Parabolic Antenna for High Capacity Backhauls and Fronthauls. , 2019, , .		1
120	Contribution for the Coexistence Analysis between 5G and 4G in the sub-1GHz Band. , 2019, , .		1
121	Large hollow-core fiber random dye laser. , 2009, , .		0
122	Polarization analysis across different photonic bandgaps of Hybrid Photonic Crystal Fibers. , 2011, , .		0
123	Silicon nitride for nonlinear optics applications in the telecommunications C-band deposited by ECR-CVD. , 2014, , .		0
124	Expanding frequency comb by means of enhanced multiple four-wave mixing. , 2014, , .		0
125	Propagation analysis of remote sensing in a rainforest environment. , 2014, , .		0
126	Service-oriented, name-based, and software-defined spectrum sensing and dynamic resource allocation for Wi-Fi networks using NovaGenesis. , 2015, , .		0

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127	Implementation of a photonics-based frequency reconfigurable optical-wireless network. , 2015, , .		0
128	Development and performance analysis of a photonic-assisted RF amplifier. , 2015, , .		0
129	Cognitive broadband optical-wireless network. , 2015, , .		0
130	Radio over fiber system amplified using technique FWM with reconfigurable antenna frequency. , 2015, , .		0
131	Low-cost software-defined wireless cognitive network based on real-time multi-sector spectrum sensing and reconfigurable antenna array. Microwave and Optical Technology Letters, 2016, 58, 1929-1934.	1.4	0
132	Electromagnetic characterization and validation of aircraft composite materials. , 2016, , .		0
133	Elastipipe: On Providing Cloud Elasticity for Pipeline-structured Applications. Lecture Notes on Data Engineering and Communications Technologies, 2017, , 293-304.	0.7	0
134	A novel approach for endlessly single-mode photonic crystal fiber design. , 2004, , .		0
135	Theoretical Investigation of a Quasi-Distributed Current Sensor Based on Hybrid PCF. , 2014, , .		0
136	Photonics-assisted Amplification for Baseband-over-Fiber Links. , 2019, , .		0
137	Photonicallly-amplified Fronthaul Toward 5G Gbit/s Communications. , 2021, , .		0
138	Machine Learning-based Fiber-Wireless Channel Estimation. , 2021, , .		0
139	A Novel Full-wave Methodology for Channel Estimation in Digital mMIMO Applications. , 2022, , .		0