Danilo H Spadoti

List of Publications by Year
in descending order

83 papers	588 citations	759233 12 h-index	713466 21 g-index
83 all docs	83 docs citations	83 times ranked	604 citing authors

#	Article	IF	Citations
1	Optically Controlled Reconfigurable Antenna Array for mm-Wave Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2142-2145.	4.0	69
2	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
3	Theoretical analysis of supercontinuum generation in a highly birefringent D-shaped microstructured optical fiber. Optics Express, 2007, 15, 14335.	3.4	40
4	Non-Standalone 5G NR Fiber-Wireless System Using FSO and Fiber-Optics Fronthauls. Journal of Lightwave Technology, 2021, 39, 406-417.	4.6	37
5	Efficient and short-range light coupling to index-matched liquid-filled hole in a solid-core photonic crystal fiber. Optics Express, 2011, 19, 24687.	3.4	34
6	Focusing light in a curved-space. Optics Express, 2010, 18, 3181.	3.4	28
7	DSP-Based Flexible-Waveform and Multi-Application 5G Fiber-Wireless System. Journal of Lightwave Technology, 2020, 38, 642-653.	4.6	27
8	In-fiber modal Mach-Zehnder interferometer based on the locally post-processed core of a photonic crystal fiber. Optics Express, 2011, 19, 3124.	3.4	22
9	Waveguide-Based Antenna Arrays for 5G Networks. International Journal of Antennas and Propagation, 2018, 2018, 1-10.	1.2	20
10	Dual-band slotted waveguide antenna array for adaptive mm-wave 5G networks. , 2017, , .		19
11	Dual-use system combining simultaneous active radar & communication, based on a single photonics-assisted transceiver. , 2016, , .		16
12	Optically Controlled Multiresonator for Passive Chipless Tag. IEEE Microwave and Wireless Components Letters, 2018, 28, 467-469.	3.2	15
13	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
14	Anisotropy minimization via least squares method for transformation optics. Optics Express, 2014, 22, 18490.	3.4	14
15	A novel dual-polarization and dual-band slotted waveguide antenna array for dual-use radars. , 2016, , .		11
16	Optically controlled reconfigurable antenna for 5G future broadband cellular communication networks. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 208-217.	0.7	11
17	Full three-dimensional isotropic carpet cloak designed by quasi-conformal transformation optics. Optics Express, 2017, 25, 23517.	3.4	11
18	Hollow-core negative curvature fibers for application in optical gas sensors. Optical Engineering, 2019, 58, 1.	1.0	10

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19	A dual-band slotted waveguide antenna array for radars applications. , 2015, , .		9
20	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
21	Photonic crystal optical fibers for dispersion compensation and Raman amplification: Design and experiment. Microwave and Optical Technology Letters, 2007, 49, 872-874.	1.4	8
22	Tri-band slotted waveguide antenna array for millimetric-waves applications. , 2014, , .		7
23	Three-dimensional quasi-conformal transformation optics through numerical optimization. Optics Express, 2016, 24, 16465.	3.4	7
24	Implementation of a Multi-Gbit/s and GFDM-based Optical-Wireless 5G Network. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 579-589.	0.7	6
25	Technique for constructing hemispherical dielectric lens antennas. Microwave and Optical Technology Letters, 2019, 61, 1349-1357.	1.4	6
26	Investigation on the deployment of FSS as electromagnetic shielding for 5G devices. , 2017, , .		5
27	Multiband 5G NR system with photonic-assisted RF amplification. Optics Letters, 2020, 45, 1539.	3.3	5
28	Use of a novel wide-angle FD-BPM for loss performance assessment in randomly perturbed photonic crystal fibers. Microwave and Optical Technology Letters, 2005, 45, 568-573.	1.4	4
29	Photonic crystal optical fibers for dispersion compensation and Raman amplification: Design and preliminary experimental results. , 2006, , .		4
30	Self-tuning capacitance for impedance matching in wireless power transfer devices. , 2017, , .		4
31	Continuously Frequency-Tunable Horn Filtennas Based on Dual-Post Resonators. International Journal of Antennas and Propagation, 2019, 2019, 1-12.	1.2	4
32	Full-vectorial to scalar FD-SOR formulations for optical waveguide modelling: a comparative study. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2006, 19, 507-520.	1.9	3
33	Birefringence enhancement by using D-shaped microstructured optical fibers. Journal of Optics, 2009, 11, 085105.	1.5	3
34	Comparison of Anisotropy Reduction Strategies for Transformation Optics Designs. IEEE Photonics Journal, 2015, 7, 1-10.	2.0	3
35	Reflectionless quasiconformal carpet cloak via parameterization strategy. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2488.	2.1	3
36	Energy consumption improvement based on distance adaptive modulation in elastic optical network. , 2017, , .		3

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37	ANALYTICAL COMPARISON OF THE PERFORMANCE OF ADAPTIVE MODULATION AND CODING IN WIRELESS NETWORK UNDER RAYLEIGH FADING. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 723-735.	0.7	3
38	Adaptive Modulation and Code Strategy to Reduce Energy Consumption in Elastic Optical Network. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 65-84.	0.7	3
39	Ultralow chirp photonic crystal fiber Machâ€“Zehnder interferometer. Applied Optics, 2018, 57, 4228.	1.8	3
40	A System to improve the management of 5G and IoT Networks by determining the Mobile Position. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2019, 18, 293-305.	0.7	3
41	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
42	General multimode polarization splitter design in uniaxial media. Optical Engineering, 2018, 57, 1.	1.0	3
43	Requirements for Efficient Raman Amplification and Dispersion Compensation Using Microstructured Optical Fibers. Fiber and Integrated Optics, 2007, 26, 255-270.	2.5	2
44	A liquid-filled W-type optical fiber temperature sensor. , 2015, , .		2
45	Reconfigurable Hemispherical Dielectric Lens Antennas in MM-Waves. , 2018, , .		2
46	Ultra-Wideband Dielectric Lens Antennas for Beamsteering Systems. International Journal of Antennas and Propagation, 2019, 2019, 1-8.	1.2	2
47	Adaptive modulation allocation algorithm in elastic optical networks. International Journal of Communication Systems, 2020, 33, e4581.	2.5	2
48	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
49	RoF/FSO System Based on a Monolithically Integrated Multi-Wavelength Transmitter. , 2021, , .		2
50	Large signal analysis on intensityâ€modulation directâ€detection radioâ€overâ€fibre dispersive links. Electronics Letters, 2022, 58, 112-114.	1.0	2
51	Novel microstructured optical fiber design for broadband dispersion compensation. , 2007, , .		1
52	Frequency-agile E-shaped printed antenna for millimeter waves applications. , 2015, , .		1
53	Dual-band slotted waveguide antenna array for communication, maritime navigation and surveillance radar. , 2015, , .		1
54	Implementation of an optically-controlled antenna in a dual-band communications system: Systemic characterization with photonic down conversion. , 2017, , .		1

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55	THz Electro-Absorption Modulator. , 2018, , .		1
56	Optimization of Energy Consumption and Bandwidth used in Elastic Optical Network. , 2018, , .		1
57	Low loss air channel modulator for ultra high frequency operation. , 2018, , .		1
58	Energy consumption improvement based on adaptive FEC code in elastic optical network. , 2018, , .		1
59	Energy consumption analysis of Sub-1GHz IoT device. , 2021, , .		1
60	Theoretical and experimental study of supercontinuum generation in a water-core PCF. AIP Conference Proceedings, 2008, , .	0.4	0
61	Efficient coupling between core and fluidic channel in a solid-core photonic crystal fiber. Proceedings of SPIE, 2010, , .	0.8	0
62	Anisotropy Reduction Strategies for Transformation Optics Designs. , 2014, , .		0
63	Application of the least square method for transformation optics. , 2014, , .		0
64	Parameterization strategy for anisotropy reduction in the carpet cloak. , 2015, , .		0
65	Integrated liquid-filled directional coupler for temperature sensing. Proceedings of SPIE, 2015, , .	0.8	0
66	3D isotropic TO via parametrization. , 2016, , .		0
67	Self-tuning of impedance matching for wireless power transfer devices. , 2016, , .		0
68	Full three-dimensional broadband and isotropic carpet cloak. , 2017, , .		0
69	Arbitrary geometry polarization splitter designee with quasi-conformal transformation optics. , 2017, , .		0
70	Polarization Splitter Design with Quasi-Conformal Transformation Optics. , 2017, , .		0
71	Dual Millimeter Wave Reconfigurable Dielectric Lens Antenna. , 2018, , .		0
72	In-fiber Modal Mach-zehnder Interferometer Based on Locally Post-processing the Core of a Photonic Crystal Fiber. , 2010, , .		0

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73	Focusing Light in a Curved-Space. , 2010, , .		0
74	Study of Modal Coupling in Dual Core Photonic Crystal Fiber. , 2013, , .		0
75	Theoretical Investigation of a Quasi-Distributed Current Sensor Based on Hybrid PCF. , 2014, , .		0
76	A Full Three-Dimensional Isotropic Carpet Cloak Designed by Transformation Optics. , 2017, , .		0
77	Achieving Invisibility in the Far Field with a 3D Carpet Cloak Design for Visible Light. , 2018, , .		0
78	Polarization Splitter with TE Homogeneous Media and TM Inhomogeneous Media. , 2018, , .		0
79	Acquisition Control System of the SPARC4 Astronomical Instrument. , 2019, , .		0
80	Design of a Patch Antenna Array for Downlink Rotorcraft System. , 2019, , .		0
81	IoT Link Budget Survey for Sub-Gigahertz Field Area Networks. , 2019, , .		0
82	Optical Sensor based on hollow core negative curvature fiber for simultaneous detection of Multiple Gases. , 2019, , .		0
83	Large signal analysis on microwave photonic generation using an asymmetric dualâ€drive Machâ€“Zehnder modulator and with different modulation indices. Microwave and Optical Technology Letters, 0, , .	1.4	0