Luca Vincetti

List of Publications by Year
in descending order

90 papers	2,408 citations	201674 27 h-index	206112 48 g-index
90 all docs	90 docs citations	90 times ranked	1235 citing authors

#	Article	IF	Citations
1	A Novel Approach to Î²-Decay: PANDORA, a New Experimental Setup for Future In-Plasma Measurements. Universe, 2022, 8, 80.	2.5	19
2	Thermo-optical numerical modal analysis of multicore fibers for high power lasers and amplifiers. Optical Fiber Technology, 2022, 70, 102857.	2.7	1
3	Hollow-Core Fiber-Based Biosensor: A Platform for Lab-in-Fiber Optical Biosensors for DNA Detection. Sensors, 2022, 22, 5144.	3.8	10
4	Analytical Formulas for Dispersion and Effective Area in Hollow-Core Tube Lattice Fibers. Fibers, 2021, 9, 58.	4.0	3
5	A Capacitance PCB Sensor for Granular Material with Increased Accuracy. , 2021, , 1-1.		1
6	Low-loss single-mode hybrid-lattice hollow-core photonic-crystal fibre. Light: Science and Applications, 2021, 10, 7.	16.6	56
7	Millimeter Wave Automotive Antenna for 5G Communications. , 2021, , .		1
8	Hollow-Core Fibers with Specific Modal Operation and Low Loss in the Short-Wavelength Range. , 2020, , .		0
9	Non-Idealities in Hollow Core Inhibited Coupling Fibers. , 2020, , .		0
10	Low cost 3D tin sheet multiband sharkâ€fin antenna for LTE MIMO vehicular application. Microwave and Optical Technology Letters, 2020, 62, 3876-3880.	1.4	1
11	Mid-IR HCPCF Gas-Laser Emitting at 4.6 Î¼m. , 2019, , .		0
12	Low Profile Wideband 3D Antenna for Roof-Top LTE Vehicular Applications. , 2019, , .		5
13	Hollow Core Inhibited Coupling Fibers for Biological Optical Sensing. Journal of Lightwave Technology, 2019, 37, 2598-2604.	4.6	12
14	Hollow-Core Fiber Technology: The Rising of â€œGas Photonicsâ€. Fibers, 2019, 7, 16.	4.0	118
15	Tailoring modal properties of inhibited-coupling guiding fibers by cladding modification. Scientific Reports, 2019, 9, 1376.	3.3	17
16	Superradiance from lattice-confined atoms inside hollow core fibre. Communications Physics, 2019, 2, .	5.3	22
17	A simple analytical model for confinement loss estimation in hollow-core Tube Lattice Fibers. Optics Express, 2019, 27, 5230.	3.4	23
18	Guidance properties and phase shift of a 9-core fiber amplifier for high power operation in presence of consistent thermal load. , 2019, , .		0

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19	Optimized inhibited-coupling Kagome fibers at Yb-Nd:Yag (85â€‰â€‰dB/km) and Ti:Sa (30â€‰dB/km) ranges. Optics Letters, 2018, 43, 1598.	3.3	22
20	Analytical Estimation of Confinement Loss in Tube Lattice Fibers. , 2018, , .		0
21	Inhibited coupling guiding hollow fibers for label-free DNA detection. Optics Express, 2017, 25, 26215.	3.4	17
22	Fusion splice between tapered inhibited coupling hypocycloid-core Kagome fiber and SMF. Optics Express, 2016, 24, 14642.	3.4	13
23	Empirical formulas for calculating loss in hollow core tube lattice fibers. Optics Express, 2016, 24, 10313.	3.4	44
24	Reconfigurable RF Energy Harvester with Customized Differential PCB Antenna. Journal of Low Power Electronics and Applications, 2015, 5, 257-273.	2.0	7
25	Inhibited coupling kagome fibers with ultra-large hollow-core size for high energy ultrafast laser applications. , 2015, , .		0
26	Triple-cup hypocycloid-core inhibited coupling Kagome hollow-core photonic crystal fiber. , 2015, , .		0
27	Fano resonance in inhibited coupling Kagome fiber. , 2015, , .		0
28	Ultra-Large Core Size Hypocycloid-Shape Inhibited Coupling Kagome Fibers for High-Energy Laser Beam Handling. Journal of Lightwave Technology, 2015, 33, 3630-3634.	4.6	17
29	Splicing tapered inhibited-coupling hypocycloid-core Kagome fiber to SMF fibers. , 2015, , .		1
30	Scaling Laws in Tube Lattice Fibers. , 2015, , .		2
31	Inhibited coupling hollow-core photonic crystal fiber. Proceedings of SPIE, 2014, , .	0.8	0
32	Ultra low-loss hypocycloid-core Kagome hollow-core photonic crystal fiber for green spectral-range applications. Optics Letters, 2014, 39, 6245.	3.3	54
33	Multi-meter fiber-delivery and pulse self-compression of milli-Joule femtosecond laser and fiber-aided laser-micromachining. Optics Express, 2014, 22, 10735.	3.4	120
34	Confinement loss scaling law analysis in tube lattice fibers for terahertz applications. , 2014, , .		2
35	Integrated RF-DC converter and PCB antenna for UHF wireless powering applications. IOP Conference Series: Materials Science and Engineering, 2014, 67, 012010.	0.6	0
36	Circular Tube lattice fibers for terahertz applications. , 2014, , .		0

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37	Lamb-Dicke spectroscopy of atoms in a hollow-core photonic crystal fibre. Nature Communications, 2014, 5, 4096.	12.8	79
38	An integrated RF energy harvester for UHF wireless powering applications. , 2013, , .		25
39	Elliptical hollow core tube lattice fibers for terahertz applications. Optical Fiber Technology, 2013, 19, 31-34.	2.7	20
40	Flexible tube lattice fibers for terahertz applications. Optics Express, 2013, 21, 3388.	3.4	111
41	Hypocycloid-shaped hollow-core photonic crystal fiber Part I: Arc curvature effect on confinement loss. Optics Express, 2013, 21, 28597.	3.4	150
42	Hypocycloid-shaped hollow-core photonic crystal fiber Part II: Cladding effect on confinement and bend loss. Optics Express, 2013, 21, 28609.	3.4	71
43	Elliptical hollow tube waveguides. Proceedings of SPIE, 2012, , .	0.8	3
44	Extra loss due to Fano resonances in inhibited coupling fibers based on a lattice of tubes. Optics Express, 2012, 20, 14350.	3.4	60
45	Electromagnetic analysis of the radiated field by Gas Insulated Switchgears for fault detection. , 2012, , .		1
46	Electromagnetic analysis of PD detection in GIS systems. , 2012, , .		2
47	Fano resonances in kagome fibers. Proceedings of SPIE, 2012, , .	0.8	2
48	Broadband printed antenna for radiofrequency energy harvesting. , 2012, , .		11
49	Confinement Loss in Kagome and Tube Lattice Fibers: Comparison and Analysis. Journal of Lightwave Technology, 2012, 30, 1470-1474.	4.6	21
50	Bending loss in tube lattice fibers for terahertz applications. , 2012, , .		1
51	Fano Resonances in Polygonal Tube Fibers. Journal of Lightwave Technology, 2012, 30, 31-37.	4.6	9
52	Octagonal Large-Mode-Area Leakage Channel Fiber with Reduced Bending Loss. , 2010, , .		0
53	Single-mode propagation in triangular tube lattice hollow-core terahertz fibers. Optics Communications, 2010, 283, 979-984.	2.1	27
54	Numerical Analysis of Propagating and Radiating Properties of Hollow Core Photonic Band Gap Fibres for THz Applications. IEEE Transactions on Antennas and Propagation, 2010, 58, 2465-2468.	5.1	1

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55	Terahertz Tube Lattice Fibers With Octagonal Symmetry. IEEE Photonics Technology Letters, 2010, 22, 972-974.	2.5	25
56	Waveguiding mechanism in tube lattice fibers. Optics Express, 2010, 18, 23133.	3.4	135
57	Hollow core fibre for THz applications. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	2
58	Hollow core photonic band gap fiber for THz applications. Microwave and Optical Technology Letters, 2009, 51, 1711-1714.	1.4	32
59	Numerical analysis of plastic hollow core microstructured fiber for Terahertz applications. Optical Fiber Technology, 2009, 15, 398-401.	2.7	40
60	Numerical Modeling of S-Band EDFA Based on Distributed Fiber Loss. Journal of Lightwave Technology, 2008, 26, 2168-2174.	4.6	17
61	Fundamental and high-order mode bending loss in leakage channel fibers. , 2008, , .		0
62	Microstrip array antenna for fire-detection applications. , 2007, , .		2
63	Microstrip array antenna for fire-detection applications. Microwave and Optical Technology Letters, 2007, 49, 2279-2282.	1.4	3
64	Numerical analysis of hollow core photonic band gap fibers with modified honeycomb lattice. Optical and Quantum Electronics, 2007, 38, 903-912.	3.3	7
65	Modified Honeycomb Photonic Bandgap Fiber Effectively Single-Mode Regime: A Numerical Analysis. , 2006, , .		0
66	Confinement loss and nonlinearity analysis of air-guiding modified honeycomb photonic bandgap fibers. IEEE Photonics Technology Letters, 2006, 18, 508-510.	2.5	42
67	Confinement Losses in Honeycomb Fibers. IEEE Photonics Technology Letters, 2004, 16, 2048-2050.	2.5	15
68	Overview on finite-element time-domain approaches for optical propagation analysis. Optical and Quantum Electronics, 2003, 35, 1005-1023.	3.3	6
69	Amplification properties of Er/sub 3+/ -doped photonic crystal fibers. Journal of Lightwave Technology, 2003, 21, 782-788.	4.6	64
70	Comparison of the jones matrix analytical models applied to optical system affected by high-order pmd. Journal of Lightwave Technology, 2003, 21, 1456-1464.	4.6	7
71	Study of raman amplification properties in triangular photonic crystal fibers. Journal of Lightwave Technology, 2003, 21, 2247-2254.	4.6	37
72	Characterization of microstructured optical fibers for wideband dispersion compensation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1958.	1.5	75

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73	Mesh Truncation in Finite Element Modal Analysis of Dielectric Waveguides. Electromagnetics, 2002, 22, 331-343.	0.7	2
74	Leakage properties of photonic crystal fibers. Optics Express, 2002, 10, 1314.	3.4	135
75	Perturbation analysis of dispersion properties in photonic crystal fibers through the finite element method. Journal of Lightwave Technology, 2002, 20, 1433-1442.	4.6	54
76	Holey fiber analysis through the finite-element method. IEEE Photonics Technology Letters, 2002, 14, 1530-1532.	2.5	134
77	Truncation of finite-element mesh for modal analysis of dielectric waveguides. Microwave and Optical Technology Letters, 2002, 32, 178-182.	1.4	1
78	A simple and useful model for Jones matrix to evaluate higher order polarization-mode dispersion effects. IEEE Photonics Technology Letters, 2001, 13, 1176-1178.	2.5	31
79	Exact evaluation of the Jones matrix of a fiber in the presence of polarization mode dispersion of any order. Journal of Lightwave Technology, 2001, 19, 1898-1909.	4.6	40
80	Comparison among first-order PMD compensation techniques. , 2001, , .		1
81	Analytical evaluation of optical system impairments caused by high-order polarization-mode dispersion effects. Microwave and Optical Technology Letters, 2001, 31, 449-453.	1.4	4
82	Complex FEM modal solver of optical waveguides with PML boundary conditions. Optical and Quantum Electronics, 2001, 33, 359-371.	3.3	163
83	Three-dimensional finite-element beam propagation method: assessments and developments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1124.	1.5	20
84	Full-vector finite-element beam propagation method for anisotropic optical device analysis. IEEE Journal of Quantum Electronics, 2000, 36, 1392-1401.	1.9	31
85	Perfectly matched anisotropic layers for optical waveguide analysis through the finite-element beam-propagation method. Microwave and Optical Technology Letters, 1999, 23, 67-69.	1.4	30
86	Nonlinear finite-element semivectorial propagation method for three-dimensional optical waveguides. IEEE Photonics Technology Letters, 1999, 11, 209-211.	2.5	10
87	Finite-element full-vectorial propagation analysis for three-dimensional z-varying optical waveguides. Journal of Lightwave Technology, 1998, 16, 703-714.	4.6	43
88	Finite-element formulation for full-vectorial propagation analysis in three-dimensional optical waveguides. IEEE Photonics Technology Letters, 1997, 9, 1244-1246.	2.5	8
89	Wide bandgap air-guiding modified honeycomb photonic crystal fibers. , 0, , .		3
90	Air-guiding photonic crystal fibers with modified honeycomb lattice. , 0, , .		7