

# Carlo Liberale

## List of Publications by Year in descending order

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86  
papers

4,326  
citations

147566

31  
h-index

133063

59  
g-index

89  
all docs

89  
docs citations

89  
times ranked

6558  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-printed fiber-based zeroth- and high-order Bessel beam generator. <i>Optica</i> , 2022, 9, 645.	4.8	22
2	3D Printed Polymer Microlenses for Aberration Correction in Two-Photon Microscopic Imaging Using &gt; 8 mm-Long GRIN Lenses. , 2022, , .		0
3	Broadband stimulated Raman imaging based on multi-channel lock-in detection for spectral histopathology. <i>APL Photonics</i> , 2022, 7, .	3.0	12
4	<scp>3D</scp>â€Printed <scp>highâ€NA</scp> catadioptric thin lens for suppression of <scp>XPM</scp> background in Stimulated Raman Scattering microscopy. <i>Journal of Biophotonics</i> , 2021, 14, e202000219.	1.1	9
5	Hadamard-transform spectral acquisition with an acousto-optic tunable filter in a broadband stimulated Raman scattering microscope. <i>Optics Express</i> , 2021, 29, 2378.	1.7	11
6	3D printed photonic structure for generation to zeroth- and high-order Bessel beams from a single-mode optical fiber. , 2021, , .		0
7	Hadamard-transform high spectral resolution and broadband stimulated Raman Scattering microspectroscopy using an acousto-optic tunable filter. , 2021, , .		0
8	Fabrication of Microstructured Optical Fiber (MOF) segments by two-photon lithography 3D printing. , 2021, , .		0
9	3D micro-printed hybrid photonic structure for single-fiber Optical Tweezers. , 2021, , .		0
10	Miniature 120-beam coherent combiner with 3D-printed optics for multicore fiber-based endoscopy. <i>Optics Letters</i> , 2021, 46, 4968.	1.7	13
11	3D micro-printed ultra-compact single-fiber Optical tweezers. , 2021, , .		0
12	Field-driven electron photoemission via 3D-printed terahertz resonant vertical nanostructures. , 2021, , .		0
13	ROS and Lipid Droplet accumulation induced by high glucose exposure in healthy colon and Colorectal Cancer Stem Cells. <i>Genes and Diseases</i> , 2020, 7, 620-635.	1.5	26
14	Stimulated Raman microspectroscopy as a new method to classify microfibers from environmental samples. <i>Environmental Pollution</i> , 2020, 267, 115640.	3.7	36
15	3D printed waveguides based on photonic crystal fiber designs for complex fiber-end photonic devices. <i>Optica</i> , 2020, 7, 1487.	4.8	80
16	Extended field-of-view ultrathin microendoscopes for high-resolution two-photon imaging with minimal invasiveness. <i>ELife</i> , 2020, 9, .	2.8	30
17	Extended Field-of-View Deep Brain Imaging using Aberration Correction in GRIN Microendoscopes through 3D Printed Polymer Microlenses. , 2020, , .		0
18	High-throughput fabrication of right-angle prism mirrors with selective metalization by two-step 3D printing and computer vision alignment. , 2020, , .		1

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19	Near-Infrared OAM Communication Using 3D-Printed Microscale Spiral Phase Plates. IEEE Communications Magazine, 2019, 57, 65-69.	4.9	25
20	Fingerprinting of CH stretch continuously tunable high spectral resolution stimulated Raman scattering microscope. Journal of Biophotonics, 2019, 12, e201900028.	1.1	21
21	Producing OAM Information Carriers using Micro-structured Spiral Phase Plates. , 2019, , .		1
22	Extended field-of-view microendoscopy through aberration corrected GRIN lenses. , 2019, , .		0
23	Polarization Micro-Optics: Circular Polarization From a Fresnel Rhomb 3D Printed on an Optical Fiber. IEEE Photonics Technology Letters, 2018, 30, 1882-1885.	1.3	13
24	Photo-responsive suspended micro-membranes. Journal of Materials Chemistry C, 2018, 6, 10428-10434.	2.7	12
25	3D printed Polarization Micro-Optics: Fresnel Rhomb printed on an optical fiber. , 2018, , .		2
26	Optical force decoration of 3D microstructures with plasmonic particles. Optics Letters, 2018, 43, 5170.	1.7	8
27	Biocompatible 3D printed magnetic micro needles. Biomedical Physics and Engineering Express, 2017, 3, 025005.	0.6	35
28	Roadmap for optofluidics. Journal of Optics (United Kingdom), 2017, 19, 093003.	1.0	78
29	An Overview of Lipid Droplets in Cancer and Cancer Stem Cells. Stem Cells International, 2017, 2017, 1-17.	1.2	165
30	On-fiber 3D printing of photonic crystal fiber tapers for mode field diameter conversion. , 2017, , .		0
31	3D printing of microlenses for aberration correction in GRIN microendoscopes. , 2017, , .		0
32	Scanless functional imaging of hippocampal networks using patterned two-photon illumination through GRIN lenses. Biomedical Optics Express, 2016, 7, 3958.	1.5	35
33	Comparison of Electro-Optical Strategies for Mimicking C. elegans Network Interconnectivity in Hardware. Biosystems and Biorobotics, 2016, , 79-98.	0.2	2
34	Nanostructures for Photonics. , 2016, , 2827-2843.		0
35	Lipid Droplets: A New Player in Colorectal Cancer Stem Cells Unveiled by Spectroscopic Imaging. Stem Cells, 2015, 33, 35-44.	1.4	185
36	Squeezing Terahertz Light into Nanovolumes: Nanoantenna Enhanced Terahertz Spectroscopy (NETS) of Semiconductor Quantum Dots. Nano Letters, 2015, 15, 386-391.	4.5	86

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37	Miniaturized Optical Tweezers Through Fiber-End Microfabrication. Springer Series in Surface Sciences, 2015, , 159-180.	0.3	1
38	Coil-type Fano Resonances: a Plasmonic Approach to Magnetic Sub-diffraction Confinement. , 2015, , .		0
39	Mechanical Stress Downregulates MHC Class I Expression on Human Cancer Cell Membrane. PLoS ONE, 2014, 9, e111758.	1.1	6
40	Nanoantenna Enhanced Terahertz Spectroscopy of a Monolayer of Cadmium Selenide Quantum Dots. , 2014, , .		0
41	Direct determination of the resonance properties of metallic conical nanoantennas. Optics Letters, 2014, 39, 571.	1.7	15
42	3D Nanostar Dimers with a Sub-10nm Gap for Single-Few-Molecule Surface-Enhanced Raman Scattering. Advanced Materials, 2014, 26, 2353-2358.	11.1	263
43	Dark to Bright Mode Conversion on Dipolar Nanoantennas: A Symmetry-Breaking Approach. ACS Photonics, 2014, 1, 310-314.	3.2	64
44	Suitable photo-resists for two-photon polymerization using femtosecond fiber lasers. Microelectronic Engineering, 2014, 121, 135-138.	1.1	10
45	High numerical aperture imaging by using multimode fibers with micro-fabricated optics. , 2014, , .		0
46	Metal Structures as Advanced Materials in Nanotechnology. , 2014, , 615-669.		1
47	Towards an Electro-optical Emulation of the C. elegans Connectome. , 2014, , .		4
48	Reflection-mode TERS on Insulin Amyloid Fibrils with Top-Visual AFM Probes. Plasmonics, 2013, 8, 25-33.	1.8	30
49	Terahertz Dipole Nanoantenna Arrays: Resonance Characteristics. Plasmonics, 2013, 8, 133-138.	1.8	35
50	Integrated microfluidic device for single-cell trapping and spectroscopy. Scientific Reports, 2013, 3, 1258.	1.6	127
51	Interplay between electric and magnetic effect in adiabatic polaritonic systems. Optics Express, 2013, 21, 7538.	1.7	19
52	Molding of Plasmonic Resonances in Metallic Nanostructures: Dependence of the Non-Linear Electric Permittivity on System Size and Temperature. Materials, 2013, 6, 4879-4910.	1.3	123
53	Surface plasmon polariton compression through radially and linearly polarized source. Optics Letters, 2012, 37, 545.	1.7	51
54	Differential Cell Adhesion on Mesoporous Silicon Substrates. ACS Applied Materials & Interfaces, 2012, 4, 2903-2911.	4.0	63

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55	Superhydrophobic Surfaces as Smart Platforms for the Analysis of Diluted Biological Solutions. ACS Applied Materials & Interfaces, 2012, 4, 3213-3224.	4.0	95
56	Fully analytical description of adiabatic compression in dissipative polaritonic structures. Physical Review B, 2012, 86, .	1.1	38
57	Microfluidic Devices Modulate Tumor Cell Line Susceptibility to NK Cell Recognition. Small, 2012, 8, 2886-2894.	5.2	29
58	Terahertz Resonant Dipole Nanoantennas. , 2012, , .		0
59	Emerging fabrication techniques for 3D nano-structuring in plasmonics and single molecule studies. Nanoscale, 2011, 3, 2689.	2.8	79
60	Multi-scheme approach for efficient surface plasmon polariton generation in metallic conical tips on AFM-based cantilevers. Optics Express, 2011, 19, 22268.	1.7	42
61	Extremely large extinction efficiency and field enhancement in terahertz resonant dipole nanoantennas. Optics Express, 2011, 19, 26088.	1.7	60
62	Breaking the diffusion limit with super-hydrophobic delivery of molecules to plasmonic nanofocusing SERS structures. Nature Photonics, 2011, 5, 682-687.	15.6	638
63	Nanoparticle microinjection and Raman spectroscopy as tools for nanotoxicology studies. Analyst, The, 2011, 136, 4402.	1.7	47
64	Cells preferentially grow on rough substrates. Biomaterials, 2010, 31, 7205-7212.	5.7	240
65	FT-IR, Raman, RRS measurements and DFT calculation for doxorubicin. Microscopy Research and Technique, 2010, 73, 991-995.	1.2	95
66	Nanoscale chemical mapping using three-dimensional adiabatic compression of surface plasmon polaritons. Nature Nanotechnology, 2010, 5, 67-72.	15.6	352
67	Highly efficient human serum filtration with water-soluble nanoporous nanoparticles. International Journal of Nanomedicine, 2010, Volume 5, 1005-1015.	3.3	13
68	Water soluble nanoporous nanoparticle for in vivo targeted drug delivery and controlled release in B cells tumor context. Nanoscale, 2010, 2, 2230.	2.8	65
69	Micro-Optics Fabrication on Top of Optical Fibers Using Two-Photon Lithography. IEEE Photonics Technology Letters, 2010, 22, 474-476.	1.3	102
70	Nano-patterned SERS substrate: Application for protein analysis vs. temperature. Biosensors and Bioelectronics, 2009, 24, 1693-1699.	5.3	220
71	Silver-based surface enhanced Raman scattering (SERS) substrate fabrication using nanolithography and site selective electroless deposition. Microelectronic Engineering, 2009, 86, 1085-1088.	1.1	102
72	A Novel Approach to Fiber-Optic Tweezers: Numerical Analysis of the Trapping Efficiency. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 151-157.	1.9	20

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73	Design and optimization of a reflection-based fiber-optic tweezers. Optics Express, 2008, 16, 17647.	1.7	22
74	Numerical and experimental demonstration of a single-fiber probe for optical trapping and analysis. , 2008, , .		0
75	All Optical 3-D Trapping through a Single-Fiber Tweezer. , 2007, , .		1
76	Miniaturized all-fibre probe for three-dimensional optical trapping and manipulation. Nature Photonics, 2007, 1, 723-727.	15.6	218
77	Optical micromanipulation of microscopic particles using axicon tipped fiber. , 2006, , .		1
78	Cross-phase modulation due to a cascade of quadratic interactions in a PPLN waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 405-411.	1.9	3
79	Fiber optic trapping of low-refractive-index particles. , 2006, , .		0
80	Far-field spectral characterization of conical emission and filamentation in Kerr media. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 862.	0.9	92
81	Measurement of the nonlinear phase shift induced by cascaded interactions in a periodically poled lithium niobate waveguide. Optics Letters, 2005, 30, 2448.	1.7	5
82	Measurement of the nonlinear coefficient of optical fibers by femtosecond pulses and spectral interferometry. IEEE Photonics Technology Letters, 2003, 15, 1123-1125.	1.3	0
83	Fabrication of Diffractive Optical Elements On-Fiber for Photonic Applications by Nanolithography. Japanese Journal of Applied Physics, 2003, 42, 4177-4180.	0.8	9
84	Numerical study of cascaded wavelength conversion in quadratic media. Journal of Optics, 2002, 4, 457-462.	1.5	3
85	Nonlinear characterization and modeling of periodically poled lithium niobate waveguides for 1.5- $\mu$ m-band cascaded wavelength conversion. Optics Communications, 2001, 187, 263-270.	1.0	14
86	Nanoparticles and Nanostructures for Biophotonic Applications. , 0, , .		1