

# Gianluigi Zito

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,641  
citations

331538

21  
h-index

289141

40  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypergeometric-Gaussian modes. <i>Optics Letters</i> , 2007, 32, 3053.	1.7	266
2	Label-free sensing of ultralow-weight molecules with all-dielectric metasurfaces supporting bound states in the continuum. <i>Photonics Research</i> , 2018, 6, 726.	3.4	209
3	Two-dimensional photonic quasicrystals by single beam computer-generated holography. <i>Optics Express</i> , 2008, 16, 5164.	1.7	100
4	Whispering gallery mode microsphere resonator integrated inside a microstructured optical fiber. <i>Optics Letters</i> , 2013, 38, 1301.	1.7	82
5	Surface-Enhanced Raman and Fluorescence Spectroscopy with an All-Dielectric Metasurface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19738-19745.	1.5	75
6	Tuning the exponential sensitivity of a bound-state-in-continuum optical sensor. <i>Optics Express</i> , 2019, 27, 18776.	1.7	71
7	Ultrasensitive Surface Refractive Index Imaging Based on Quasi-Bound States in the Continuum. <i>ACS Nano</i> , 2020, 14, 15417-15427.	7.3	67
8	Surface-enhanced Raman imaging of cell membrane by a highly homogeneous and isotropic silver nanostructure. <i>Nanoscale</i> , 2015, 7, 8593-8606.	2.8	66
9	Nanosphere Lithography on Fiber: Towards Engineered Lab-On-Fiber SERS Optrodes. <i>Sensors</i> , 2018, 18, 680.	2.1	60
10	Nanoscale Chemical Imaging of <i>Bacillus subtilis</i> Spores by Combining Tip-Enhanced Raman Scattering and Advanced Statistical Tools. <i>ACS Nano</i> , 2014, 8, 12300-12309.	7.3	55
11	Bioderived Three-Dimensional Hierarchical Nanostructures as Efficient Surface-Enhanced Raman Scattering Substrates for Cell Membrane Probing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12406-12416.	4.0	44
12	Raman detection and identification of normal and leukemic hematopoietic cells. <i>Journal of Biophotonics</i> , 2018, 11, e201700265.	1.1	37
13	Photosensitive, all-glass AgPO <sub>3</sub> /silicaphotonic bandgap fiber. <i>Optics Letters</i> , 2012, 37, 2499.	1.7	33
14	Nanoscale engineering of two-dimensional disordered hyperuniform block-copolymer assemblies. <i>Physical Review E</i> , 2015, 92, 050601.	0.8	33
15	SERS Quantification of Galunisertib Delivery in Colorectal Cancer Cells by Plasmonic-Assisted Diatomite Nanoparticles. <i>Small</i> , 2021, 17, e2101711.	5.2	32
16	Flexibility of the Programme of Spore Coat Formation in <i>Bacillus subtilis</i> : Bypass of CotE Requirement by Over-Production of CotH. <i>PLoS ONE</i> , 2013, 8, e74949.	1.1	30
17	Observation of spin-polarized directive coupling of light at bound states in the continuum. <i>Optica</i> , 2019, 6, 1305.	4.8	29
18	[INVITED] Raman microscopy based sensing of leukemia cells: A review. <i>Optics and Laser Technology</i> , 2018, 108, 7-16.	2.2	28

#	ARTICLE	IF	CITATIONS
19	Tailoring lab-on-fiber SERS optrodes towards biological targets of different sizes. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129321.	4.0	28
20	Holographic polymer-dispersed liquid crystal Bragg grating integrated inside a solid core photonic crystal fiber. <i>Optics Letters</i> , 2013, 38, 3253.	1.7	25
21	Silver plasmon resonance effects in AgPO <sub>3</sub> /silica photonic bandgap fiber. <i>Optics Letters</i> , 2014, 39, 3374.	1.7	23
22	Raman-microscopy investigation of vitrification-induced structural damages in mature bovine oocytes. <i>PLoS ONE</i> , 2017, 12, e0177677.	1.1	22
23	Spectral characterization of two-dimensional Thue-Morse quasicrystals realized with high resolution lithography. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 015602.	1.0	19
24	FDTD analysis of photonic quasicrystals with different tiling geometries and fabrication by single-beam computer-generated holography. <i>Journal of Optics</i> , 2009, 11, 024007.	1.5	18
25	Label-free DNA biosensing by topological light confinement. <i>Nanophotonics</i> , 2021, 10, 4279-4287.	2.9	18
26	Nanometal Skin of Plasmonic Heterostructures for Highly Efficient Near-Field Scattering Probes. <i>Scientific Reports</i> , 2016, 6, 31113.	1.6	17
27	Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres. <i>Thin Solid Films</i> , 2014, 555, 76-80.	0.8	15
28	Enhancement factor statistics of surface enhanced Raman scattering in multiscale heterostructures of nanoparticles. <i>Journal of Chemical Physics</i> , 2016, 145, 054708.	1.2	15
29	Simultaneous measurements of electrophoretic and dielectrophoretic forces using optical tweezers. <i>Optics Express</i> , 2015, 23, 9363.	1.7	14
30	Bandgap properties of low-index contrast aperiodically ordered photonic quasicrystals. <i>Microwave and Optical Technology Letters</i> , 2009, 51, 2732-2737.	0.9	13
31	Dark spots along slowly scaling chains of plasmonic nanoparticles. <i>Optics Express</i> , 2016, 24, 13584.	1.7	12
32	Control of the light transmission through a quasiperiodic waveguide. <i>Optics Express</i> , 2012, 20, 26056.	1.7	11
33	Resistance and Raman spectroscopy analysis of <i>Parageobacillus thermantarcticus</i> spores after $\hat{\gamma}$ -ray exposure. <i>Extremophiles</i> , 2018, 22, 931-941.	0.9	10
34	Reorientation of single-wall carbon nanotubes in negative anisotropy liquid crystals by an electric field. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 825-833.	1.5	9
35	Computer-Generated Holographic Gratings in Soft Matter. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 371-378.	0.4	7
36	High Resolution Lithography as a Tool to Fabricate Quasiperiodic Crystals. , 2009, , .		6

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37	Cell Imaging by Spontaneous and Amplified Raman Spectroscopies. Journal of Spectroscopy, 2017, 2017, 1-9.	0.6	6
38	Assessment of conjunctival microvilli abnormality by micro-Raman analysis by G. Rusciano et al. Journal of Biophotonics, 2016, 9, 551-559.	1.1	5
39	Insights into the interaction of the N-terminal amyloidogenic polypeptide of ApoA-I with model cellular membranes. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 795-801.	1.1	5
40	Symmetry-Induced Light Confinement in a Photonic Quasicrystal-Based Mirrorless Cavity. Crystals, 2016, 6, 111.	1.0	4
41	Nematic liquid crystal reorientation around multi-walled carbon nanotubes mapped via Raman microscopy. Optics Express, 2016, 24, 15954.	1.7	4
42	Spatially resolved refractive index profiles of electrically switchable computer-generated holographic gratings. Optics Express, 2009, 17, 18843.	1.7	3
43	Fresnel tomography and interferometric technique for characterizing Laguerre-Gaussian beams. Journal of Russian Laser Research, 2010, 31, 139-151.	0.3	3
44	Photonic Topological Insulators. Optics and Photonics News, 2013, 24, 43.	0.4	2
45	Fourier projection method for measuring the two-point correlation of Laguerre-Gaussian modes. Journal of Optics (United Kingdom), 2010, 12, 035404.	1.0	1
46	A ferrofluid infiltrated polymeric microstructured optical fiber sensor for magnetic field measurements. , 2012, , .		1
47	Photonic bandgap guiding into a composite AgPO <sub>3</sub> -glass/silica microstructured optical fibre. , 2012, , .		1
48	A grating-less in-fibre magnetometer realised in a polymer-MOF infiltrated using ferrofluid. , 2012, , .		1
49	Surface-enhanced Raman imaging of red blood cell membrane with highly uniform active substrates obtained using block copolymers self-assembly. , 2013, , .		1
50	Raman-spectroscopy-based biosensing for applications in ophthalmology. Proceedings of SPIE, 2013, , .	0.8	1
51	Hidden translational symmetry in square-triangle-tiled dodecagonal quasicrystal. Journal of Optics (United Kingdom), 2015, 17, 055103.	1.0	1
52	Characterization of surface properties of bacterial spores using Optical Tweezers. , 2015, , .		1
53	Bound-state in the continuum of a photonic crystal metasurface: a platform for ultrasensitive sensing and near field amplification. Journal of Physics: Conference Series, 2020, 1461, 012138.	0.3	1
54	Enhancing light-matter interaction in all-dielectric photonic crystal metasurfaces. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	Microsphere resonator integrated inside a microstructured optical fiber. , 2013, , .		0
56	Whispering-gallery modes excitation in microspheres integrated inside microstructured optical fibers. Proceedings of SPIE, 2014, , .	0.8	0
57	Correlative TERS imaging of B. subtilis spores. , 2015, , .		0
58	Raman Spectroscopy for Biomedical Applications: From Label-free Cancer Cell Sorting to Imaging. , 2019, , .		0
59	Integrated Holographic Polymer-Dispersed Liquid Crystal Bragg Reflector into Photonic Crystal Fibre. , 2012, , .		0
60	All-Glass AgPO <sub>3</sub> /Silica Photonic Band-Gap Fibre. , 2012, , .		0
61	An In-Fiber Magnetometer Implemented in a Polymeric-MOF Utilizing Ferrofluid. Lecture Notes in Electrical Engineering, 2014, , 227-231.	0.3	0
62	Quantum spin Hall effect in bound states in continuum. , 2019, , .		0
63	Lab-on-fiber SERS substrates for biomolecular recognition. , 2019, , .		0
64	Lab-on-fiber SERS optrodes for biological target detection. , 2021, , .		0