

# Riccardo Castagna

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

1,062  
citations

393982

19  
h-index

454577

30  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1197  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in ultraviolet absorbance and hence in protective efficacy against lipid peroxidation of organic sunscreens after UVA irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2006, 82, 204-213.	1.7	90
2	Integration of microfluidic and cantilever technology for biosensing application in liquid environment. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1565-1570.	5.3	58
3	Development of a microcantilever-based immunosensing method for mycotoxin detection. <i>Biosensors and Bioelectronics</i> , 2013, 40, 233-239.	5.3	57
4	Development of microcantilever-based biosensor array to detect Angiopoietin-1, a marker of tumor angiogenesis. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1193-1198.	5.3	47
5	Plasmonic Metasurfaces Based on Pyramidal Nanoholes for High-Efficiency SERS Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43715-43725.	4.0	45
6	Superior Performance Polymeric Composite Materials for High-Density Optical Data Storage. <i>Advanced Materials</i> , 2009, 21, 589-592.	11.1	43
7	Octupolar Metastructures for a Highly Sensitive, Rapid, and Reproducible Phage-Based Detection of Bacterial Pathogens by Surface-Enhanced Raman Scattering. <i>ACS Sensors</i> , 2017, 2, 947-954.	4.0	38
8	The effects of derivatives of the nitroxide tempol on UVA-mediated in vitro lipid and protein oxidation. <i>Free Radical Biology and Medicine</i> , 2002, 33, 128-136.	1.3	33
9	A multilevel Lab on chip platform for DNA analysis. <i>Biomedical Microdevices</i> , 2011, 13, 19-27.	1.4	33
10	Surface functionalization by poly-acrylic acid plasma-polymerized films for microarray DNA diagnostics. <i>Surface and Coatings Technology</i> , 2012, 207, 389-399.	2.2	31
11	Online Portable Microcantilever Biosensors for Salmonella enterica Serotype Enteritidis Detection. <i>Food and Bioprocess Technology</i> , 2010, 3, 956-960.	2.6	28
12	Octupolar Plasmonic Nanosensor Based on Ordered Arrays of Triangular Au Nanopillars for Selective Rotavirus Detection. <i>ACS Applied Nano Materials</i> , 2020, 3, 4837-4844.	2.4	28
13	Large-area photonic structures in freestanding films. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	23
14	Hydroxyl radical from the reaction between hypochlorite and hydrogen peroxide. <i>Atmospheric Environment</i> , 2008, 42, 6551-6554.	1.9	22
15	Immunodetection of 17 $\beta$ -estradiol in serum at ppt level by microcantilever resonators. <i>Biosensors and Bioelectronics</i> , 2013, 40, 407-411.	5.3	22
16	Controlled-motion of floating macro-objects induced by light. <i>AIP Advances</i> , 2015, 5, .	0.6	21
17	Hybrid surface-relief/volume one dimensional holographic gratings. <i>Optical Materials</i> , 2015, 42, 366-369.	1.7	21
18	Near-frequency photons Y-splitter. <i>Applied Materials Today</i> , 2020, 19, 100636.	2.3	20

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19	Nitroxide radicals reduce shrinkage in acrylate-based holographic gratings. <i>Optical Materials</i> , 2007, 30, 539-544.	1.7	19
20	Polarization-dependent laser-light structured directionality with polymer composite materials. <i>Materials Letters</i> , 2012, 81, 232-234.	1.3	19
21	Distributed feedback all-organic microlaser based on holographic polymer dispersed liquid crystals. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	18
22	An Unconventional Approach to Photomobile Composite Polymer Films. <i>Advanced Materials</i> , 2017, 29, 1604800.	11.1	18
23	Engineered nanopatterned substrates for high-sensitive localized surface plasmon resonance: an assay on biomacromolecules. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5473-5478.	2.9	18
24	Aromatic and aliphatic mono- and bis-nitroxides: A study on their radical scavenging abilities. <i>Free Radical Research</i> , 2005, 39, 325-336.	1.5	17
25	Nanocomposite polymeric materials for high density optical storage. <i>Journal of Optics</i> , 2009, 11, 024011.	1.5	17
26	Engineered plasmonic Thue-Morse nanostructures for LSPR detection of the pesticide Thiram. <i>Nanophotonics</i> , 2017, 6, 1083-1092.	2.9	17
27	Characterization of Blue Sensitive Holographic Polymer Dispersed Liquid Crystal for Microholographic Data Storage. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 203-215.	0.4	16
28	Haloalkane-based polymeric mixtures for high density optical data storage. <i>Optical Materials</i> , 2008, 30, 1878-1882.	1.7	16
29	Nitroxide radical TEMPO reduces ozone-induced chemokine IL-8 production in lung epithelial cells. <i>Toxicology in Vitro</i> , 2009, 23, 365-370.	1.1	15
30	Stationary Mode Distribution and Sidewall Roughness Effects in Overmoded Optical Waveguides. <i>Journal of Lightwave Technology</i> , 2010, 28, 1510-1520.	2.7	14
31	Laser emission based on first order reflection by novel composite polymeric gratings. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 140-145.	1.0	14
32	Effects of resin addition on holographic polymer dispersed liquid crystals. <i>Journal of Optics</i> , 2009, 11, 024021.	1.5	13
33	High-performance Nanocavities-based Meta-crystals for Enhanced Plasmonic Sensing. <i>Optical Data Processing and Storage</i> , 2016, 2, .	3.3	12
34	Detailed investigation of high-resolution reflection gratings through angular-selectivity measurements. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 471.	0.9	11
35	Dodecagonal plasmonic quasicrystals for phage-based biosensing. <i>Nanotechnology</i> , 2018, 29, 405501.	1.3	11
36	SERS Biosensor Based on Engineered 2D-Aperiodic Nanostructure for In-Situ Detection of Viable Brucella Bacterium in Complex Matrix. <i>Nanomaterials</i> , 2021, 11, 886.	1.9	11

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37	Light-actuated contactless macro motors exploiting BÃ©nardâ€™Marangoni convection. Optics Express, 2019, 27, 13574.	1.7	11
38	Optically tunable diffraction efficiency by photo-mobile holographic composite polymer material. Optical Materials, 2021, 121, 111612.	1.7	11
39	Light controlled bending of a holographic transmission phase grating. Smart Materials and Structures, 2022, 31, 03LT02.	1.8	11
40	Nanoscale Poling of Polymer Films. Advanced Materials, 2013, 25, 2234-2238.	11.1	10
41	Plasmonic Nanocavities-based Aperiodic crystal for Protein-Protein Recognition SERS sensors. Optical Data Processing and Storage, 2017, 3, .	3.3	10
42	Nitrenium ions.Part 5. For Part 4 see ref. 1 Reactions of N,N-dimethyl-p-benzoyloxyaniline-iminium chloride with indoles and indolizines. X-ray structure of unexpected [2-chloro-4-(4-dimethylaminophenyl-ONN-azoxy)phenyl]dimethylamine (azoxy derivative). Organic and Biomolecular Chemistry, 2003, 1, 3768.	1.5	8
43	Oxazoles formation during <i>O</i>-alkylation of isonitrosoâ€™naphthols. Xâ€™ray structure of [1,2]naphthoquinone 1â€™-(4â€™-tert</i>-butylâ€™benzyl)â€™oxime] and 2â€™-(4â€™-tert</i>-butylâ€™phenyl)naph[1,2â€™-d</i>]oxazole. Journal of Heterocyclic Chemistry, 2004, 41, 971-974.	1.4	8
44	At a glance determination of laser light polarization state. Applied Physics Letters, 2008, 92, 041115.	1.5	8
45	Spectral, Morphological and Dynamical Analysis of a Holographic Grating Recorded in a Photo-Mobile Composite Polymer Mixture. Nanomaterials, 2021, 11, 2925.	1.9	7
46	Light-Induced Dynamic Holography. Micromachines, 2022, 13, 297.	1.4	6
47	Laser light polarization plastic visualizer: light scattering distribution and anisotropy. RSC Advances, 2013, 3, 7677.	1.7	5
48	Thue-Morse nanostructures for tunable light extraction in the visible region. Optics and Lasers in Engineering, 2018, 104, 291-299.	2.0	5
49	Lasing in Haloalkanes-based polymeric mixtures. Optical Materials, 2022, 131, 112614.	1.7	5
50	Real-Time Surface-Enhanced Raman Scattering Tracking of Adenineâ€™Gold Charge Transfer Complex Formation on Nanocavity-Shaped Plasmonic Crystals. Journal of Physical Chemistry C, 2019, 123, 17961-17967.	1.5	4
51	Shape-driven optofluidic rotational actuation. European Physical Journal Plus, 2021, 136, 1.	1.2	4
52	Microfluidic transport of photopolymerizable species for laser source integration in lab-on-a-chip photonic devices. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 575-580.	1.0	3
53	Structured beam diffraction. Optics Letters, 2016, 41, 1462.	1.7	3
54	Plasmonic Photomobile Polymer Films. Crystals, 2020, 10, 660.	1.0	3

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55	Iron (III)/multiacrylate-based holographic mixtures. Journal of Applied Physics, 2013, 114, 193101.	1.1	2
56	New composite blue sensitive materials for high resolution optical data storage. Proceedings of SPIE, 2007, , .	0.8	1
57	Holographic Patterning of Composite Polymeric Materials for Photonic Applications. Molecular Crystals and Liquid Crystals, 2008, 486, 21/[1063]-30/[1072].	0.4	1
58	Oxazoles Formation During O-Alkylation of Isonitroso-naphthols. X-Ray Structure of [1,2]Naphthoquinone 1-[O-(4-tert-Butyl-benzyl)-oxime] and 2-(4-tert-Butyl-phenyl)naphth[1,2-d]oxazole.. ChemInform, 2005, 36, no.	0.1	0
59	Polymeric composite materials for optical data storage and processing. , 2007, , .		0
60	Optical properties of organic-based periodic structures. Proceedings of SPIE, 2007, , .	0.8	0
61	Novel blue sensitive polymeric materials for optical data storage. Proceedings of SPIE, 2008, , .	0.8	0
62	Holographic polymeric materials for optical processing: Microlasers, data storage and all optical switching. , 2011, , .		0
63	Microcantilever Biosensor Array for Cancer Research. Series in Sensors, 2012, , 803-814.	0.0	0
64	High resolution optical data storage in composite polymeric materials. , 2006, , .		0
65	Blue Sensitive Mixtures for Holographic Optical Data Storage. , 2007, , .		0
66	Light-Polarization Visualizer with Polymeric Composite Mixtures. , 2007, , .		0
67	Realization and Characterization of Organic TwoDimensional Periodic Structures. , 2007, , .		0
68	Characterization of optical PCB interconnects by means of low-coherence interferometry. , 2008, , .		0
69	Novel supra-molecular arrangements with plasmonic functionalities for fipronil pesticide detection. , 2020, , .		0