

# 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	Light controlled bending of a holographic transmission phase grating. <i>Smart Materials and Structures</i> , 2022, 31, 03LT02.	1.8	11
2	Light-Induced Dynamic Holography. <i>Micromachines</i> , 2022, 13, 297.	1.4	6
3	Lasing in Haloalkanes-based polymeric mixtures. <i>Optical Materials</i> , 2022, 131, 112614.	1.7	5
4	SERS Biosensor Based on Engineered 2D-Aperiodic Nanostructure for In-Situ Detection of Viable <i>Brucella</i> Bacterium in Complex Matrix. <i>Nanomaterials</i> , 2021, 11, 886.	1.9	11
5	Shape-driven optofluidic rotational actuation. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	4
6	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
7	Optically tunable diffraction efficiency by photo-mobile holographic composite polymer material. <i>Optical Materials</i> , 2021, 121, 111612.	1.7	11
8	Spectral, Morphological and Dynamical Analysis of a Holographic Grating Recorded in a Photo-Mobile Composite Polymer Mixture. <i>Nanomaterials</i> , 2021, 11, 2925.	1.9	7
9	Plasmonic Photomobile Polymer Films. <i>Crystals</i> , 2020, 10, 660.	1.0	3
10	Near-frequency photons Y-splitter. <i>Applied Materials Today</i> , 2020, 19, 100636.	2.3	20
11	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
12	Novel supra-molecular arrangements with plasmonic functionalities for fipronil pesticide detection. , 2020, , .		0
13	Real-Time Surface-Enhanced Raman Scattering Tracking of Adenineâ€“Gold Charge Transfer Complex Formation on Nanocavity-Shaped Plasmonic Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17961-17967.	1.5	4
14	Light-actuated contactless macro motors exploiting BÃ©nardâ€“Marangoni convection. <i>Optics Express</i> , 2019, 27, 13574.	1.7	11
15	Thue-Morse nanostructures for tunable light extraction in the visible region. <i>Optics and Lasers in Engineering</i> , 2018, 104, 291-299.	2.0	5
16	Dodecagonal plasmonic quasicrystals for phage-based biosensing. <i>Nanotechnology</i> , 2018, 29, 405501.	1.3	11
17	An Unconventional Approach to Photomobile Composite Polymer Films. <i>Advanced Materials</i> , 2017, 29, 1604800.	11.1	18
18	Engineered plasmonic Thue-Morse nanostructures for LSPR detection of the pesticide Thiram. <i>Nanophotonics</i> , 2017, 6, 1083-1092.	2.9	17

#	ARTICLE	IF	CITATIONS
19	Octupolar Metastructures for a Highly Sensitive, Rapid, and Reproducible Phage-Based Detection of Bacterial Pathogens by Surface-Enhanced Raman Scattering. ACS Sensors, 2017, 2, 947-954.	4.0	38
20	Plasmonic Nanocavities-based Aperiodic crystal for Protein-Protein Recognition SERS sensors. Optical Data Processing and Storage, 2017, 3, .	3.3	10
21	Engineered nanopatterned substrates for high-sensitive localized surface plasmon resonance: an assay on biomacromolecules. Journal of Materials Chemistry B, 2017, 5, 5473-5478.	2.9	18
22	High-performance Nanocavities-based Meta-crystals for Enhanced Plasmonic Sensing. Optical Data Processing and Storage, 2016, 2, .	3.3	12
23	Structured beam diffraction. Optics Letters, 2016, 41, 1462.	1.7	3
24	Controlled-motion of floating macro-objects induced by light. AIP Advances, 2015, 5, .	0.6	21
25	Hybrid surface-relief/volume one dimensional holographic gratings. Optical Materials, 2015, 42, 366-369.	1.7	21
26	Development of a microcantilever-based immunosensing method for mycotoxin detection. Biosensors and Bioelectronics, 2013, 40, 233-239.	5.3	57
27	Laser light polarization plastic visualizer: light scattering distribution and anisotropy. RSC Advances, 2013, 3, 7677.	1.7	5
28	Nanoscale Poling of Polymer Films. Advanced Materials, 2013, 25, 2234-2238.	11.1	10
29	Immunodetection of $17\beta$ -estradiol in serum at ppt level by microcantilever resonators. Biosensors and Bioelectronics, 2013, 40, 407-411.	5.3	22
30	Iron (III)/multiacrylate-based holographic mixtures. Journal of Applied Physics, 2013, 114, 193101.	1.1	2
31	Microcantilever Biosensor Array for Cancer Research. Series in Sensors, 2012, , 803-814.	0.0	0
32	Surface functionalization by poly-acrylic acid plasma-polymerized films for microarray DNA diagnostics. Surface and Coatings Technology, 2012, 207, 389-399.	2.2	31
33	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
34	Polarization-dependent laser-light structured directionality with polymer composite materials. Materials Letters, 2012, 81, 232-234.	1.3	19
35	Laser emission based on first order reflection by novel composite polymeric gratings. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 140-145.	1.0	14
36	A multilevel Lab on chip platform for DNA analysis. Biomedical Microdevices, 2011, 13, 19-27.	1.4	33

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37	Holographic polymeric materials for optical processing: Microlasers, data storage and all optical switching. , 2011, , .		0
38	Online Portable Microcantilever Biosensors for Salmonella enterica Serotype Enteritidis Detection. Food and Bioprocess Technology, 2010, 3, 956-960.	2.6	28
39	Development of microcantilever-based biosensor array to detect Angiopoietin-1, a marker of tumor angiogenesis. Biosensors and Bioelectronics, 2010, 25, 1193-1198.	5.3	47
40	Integration of microfluidic and cantilever technology for biosensing application in liquid environment. Biosensors and Bioelectronics, 2010, 26, 1565-1570.	5.3	58
41	Stationary Mode Distribution and Sidewall Roughness Effects in Overmoded Optical Waveguides. Journal of Lightwave Technology, 2010, 28, 1510-1520.	2.7	14
42	Effects of resin addition on holographic polymer dispersed liquid crystals. Journal of Optics, 2009, 11, 024021.	1.5	13
43	Superior Performance Polymeric Composite Materials for High Density Optical Data Storage. Advanced Materials, 2009, 21, 589-592.	11.1	43
44	Nanocomposite polymeric materials for high density optical storage. Journal of Optics, 2009, 11, 024011.	1.5	17
45	Nitroxide radical TEMPO reduces ozone-induced chemokine IL-8 production in lung epithelial cells. Toxicology in Vitro, 2009, 23, 365-370.	1.1	15
46	Distributed feedback all-organic microlaser based on holographic polymer dispersed liquid crystals. Applied Physics Letters, 2009, 94, .	1.5	18
47	Haloalkane-based polymeric mixtures for high density optical data storage. Optical Materials, 2008, 30, 1878-1882.	1.7	16
48	Hydroxyl radical from the reaction between hypochlorite and hydrogen peroxide. Atmospheric Environment, 2008, 42, 6551-6554.	1.9	22
49	Holographic Patterning of Composite Polymeric Materials for Photonic Applications. Molecular Crystals and Liquid Crystals, 2008, 486, 21/[1063]-30/[1072].	0.4	1
50	At a glance determination of laser light polarization state. Applied Physics Letters, 2008, 92, 041115.	1.5	8
51	Novel blue sensitive polymeric materials for optical data storage. Proceedings of SPIE, 2008, , .	0.8	0
52	Characterization of optical PCB interconnects by means of low-coherence interferometry. , 2008, , .		0
53	Polymeric composite materials for optical data storage and processing. , 2007, , .		0
54	Characterization of Blue Sensitive Holographic Polymer Dispersed Liquid Crystal for Microholographic Data Storage. Molecular Crystals and Liquid Crystals, 2007, 465, 203-215.	0.4	16

#	ARTICLE	IF	CITATIONS
55	Large-area photonic structures in freestanding films. Applied Physics Letters, 2007, 91, .	1.5	23
56	New composite blue sensitive materials for high resolution optical data storage. Proceedings of SPIE, 2007, , .	0.8	1
57	Optical properties of organic-based periodic structures. Proceedings of SPIE, 2007, , .	0.8	0
58	Detailed investigation of high-resolution reflection gratings through angular-selectivity measurements. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 471.	0.9	11
59	Nitroxide radicals reduce shrinkage in acrylate-based holographic gratings. Optical Materials, 2007, 30, 539-544.	1.7	19
60	Blue Sensitive Mixtures for Holographic Optical Data Storage. , 2007, , .		0
61	Light-Polarization Visualizer with Polymeric Composite Mixtures. , 2007, , .		0
62	Realization and Characterization of Organic TwoDimensional Periodic Structures. , 2007, , .		0
63	Changes in ultraviolet absorbance and hence in protective efficacy against lipid peroxidation of organic sunscreens after UVA irradiation. Journal of Photochemistry and Photobiology B: Biology, 2006, 82, 204-213.	1.7	90
64	High resolution optical data storage in composite polymeric materials. , 2006, , .		0
65	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
66	Aromatic and aliphatic mono- and bis-nitroxides: A study on their radical scavenging abilities. Free Radical Research, 2005, 39, 325-336.	1.5	17
67	Oxazoles formation during O-alkylation of isonitroso-naphthols. X-ray structure of [1,2]naphthoquinone 1-[O-(4-tert-butylbenzyl)oxime] and 2-(4-tert-butylphenyl)naph[1,2-d]oxazole. Journal of Heterocyclic Chemistry, 2004, 41, 971-974.	1.4	8
68	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
69	The effects of derivatives of the nitroxide tempol on UVA-mediated in vitro lipid and protein oxidation. Free Radical Biology and Medicine, 2002, 33, 128-136.	1.3	33