

# Alessandro Veltri

## List of Publications by Year in descending order

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48  
papers

1,101  
citations

361413

20  
h-index

395702

33  
g-index

49  
all docs

49  
docs citations

49  
times ranked

925  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a new kind of switchable holographic grating made of liquid-crystal films separated by slices of polymeric material. <i>Optics Letters</i> , 2004, 29, 1261.	3.3	181
2	Reversible Strong Coupling in Silver Nanoparticle Arrays Using Photochromic Molecules. <i>Nano Letters</i> , 2013, 13, 282-286.	9.1	93
3	Model for the photoinduced formation of diffraction gratings in liquid-crystalline composite materials. <i>Applied Physics Letters</i> , 2004, 84, 3492-3494.	3.3	58
4	POLICRYPS: a liquid crystal composed nano/microstructure with a wide range of optical and electro-optical applications. <i>Journal of Optics</i> , 2009, 11, 024017.	1.5	55
5	Composite Holographic Gratings Containing Light-Responsive Liquid Crystals for Visible Bichromatic Switching. <i>Advanced Materials</i> , 2010, 22, 2316-2319.	21.0	55
6	Resonant Gain Singularities in 1D and 3D Metal/Dielectric Multilayered Nanostructures. <i>ACS Nano</i> , 2017, 11, 1012-1025.	14.6	48
7	Characterization of the diffraction efficiency of new holographic gratings with a nematic film-polymer-slice sequence structure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1939.	2.1	47
8	Photo-thermal effects in gold nanoparticles dispersed in thermotropic nematic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20281-20287.	2.8	46
9	In situ optical control and stabilization of the curing process of holographic gratings with a nematic film-polymer-slice sequence structure. <i>Applied Optics</i> , 2006, 45, 3721.	2.1	45
10	Electro-optic properties of switchable gratings made of polymer and nematic liquid-crystal slices. <i>Optics Letters</i> , 2004, 29, 1405.	3.3	44
11	All-optical switching of holographic gratings made of polymer-liquid-crystal-polymer slices containing azo-compounds. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	41
12	Radiative Intermittent Events during Fermi's Stochastic Acceleration. <i>Physical Review Letters</i> , 2004, 92, 143901.	7.8	37
13	POLICRYPS structures as switchable optical phase modulators. <i>Optics Express</i> , 2008, 16, 7619.	3.4	34
14	Optical response of a metallic nanoparticle immersed in a medium with optical gain. <i>Physical Review B</i> , 2012, 85, .	3.2	31
15	Loss-Mitigated Collective Resonances in Gain-Assisted Plasmonic Mesocapsules. <i>ACS Photonics</i> , 2014, 1, 371-376.	6.6	29
16	Gain functionalized core-shell nanoparticles: the way to selectively compensate absorptive losses. <i>Journal of Materials Chemistry</i> , 2012, 22, 8846.	6.7	28
17	Kogelnik-like model for the diffraction efficiency of POLICRYPS gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 735.	2.1	27
18	POLICRYPS Switchable Holographic Grating: A Promising Grating Electro-Optical Pixel for High Resolution Display Application. <i>Journal of Display Technology</i> , 2006, 2, 38-51.	1.2	24

#	ARTICLE	IF	CITATIONS
19	Photo-thermal study of a layer of randomly distributed gold nanoparticles: from nano-localization to macro-scale effects. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 435302.	2.8	23
20	Multipolar, time-dynamical model for the loss compensation and lasing of a spherical plasmonic nanoparticle spaser immersed in an active gain medium. <i>Scientific Reports</i> , 2016, 6, 33018.	3.3	21
21	Dynamical behaviour of holographic gratings with a nematic film –Polymer slice sequence structure. <i>European Physical Journal E</i> , 2004, 15, 47-52.	1.6	15
22	Characterization of an active control system for holographic setup stabilization. <i>Applied Optics</i> , 2008, 47, 1363.	2.1	15
23	Gain-Assisted Optomechanical Position Locking of Metal/Dielectric Nanoshells in Optical Potentials. <i>ACS Photonics</i> , 2020, 7, 1262-1270.	6.6	15
24	Observation of two-wave coupling during the formation of POLICRYPS diffraction gratings. <i>Optics Letters</i> , 2005, 30, 1840.	3.3	14
25	POLICRYPS composite structures: realization, characterization and exploitation for electro-optical and all-optical applications. <i>Liquid Crystals Reviews</i> , 2013, 1, 2-19.	4.1	12
26	Optical Characterization at Wavelengths of 632.8 NM and 1549 NM of Policryps Switchable Diffraction Gratings. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 398, 223-233.	0.9	10
27	Designs for electromagnetic cloaking a three-dimensional arbitrary shaped star-domain. <i>Optics Express</i> , 2009, 17, 20494.	3.4	8
28	Different reorientational regimes in a liquid crystalline medium undergoing multiple irradiation. <i>Optics Express</i> , 2007, 15, 1663.	3.4	6
29	MODEL FOR MOLECULAR DIRECTOR CONFIGURATION IN A LIQUID CRYSTAL CELL WITH MULTIPLE INTERFACES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007, 16, 199-206.	1.8	5
30	Blue-shifted random-laser-mode selection in gain-assisted anisotropic complex fluids. <i>Physical Review E</i> , 2011, 83, 041711.	2.1	5
31	Polarization-dependent strong coupling between silver nanorods and photochromic molecules. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2657-2664.	2.8	5
32	Model for two-beam coupling during the formation of holographic gratings with a nematic film-polymer-slice sequence structure. <i>Applied Physics Letters</i> , 2005, 87, 141108.	3.3	4
33	Two-Wave Coupling during the Formation of POLICRYPS Diffraction Gratings: Experimental Results Theoretical Model. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 454, 273/[675]-284/[686].	0.9	3
34	Model for Light Scattering and Lasing in Dye-Doped Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 488, 317-326.	0.9	3
35	Realization of POLICRYPS Gratings: Optical and Electro-Optical Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 441, 111-129.	0.9	2
36	Nematic liquid crystals used to control photo-thermal effects in gold nanoparticles. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	The POLICRYPS liquid-crystalline structure for optical applications. <i>Advanced Optical Technologies</i> , 2018, 7, 273-289.	1.7	2
38	Theoretical Characterization of the Holographic Recording of Diffraction Grating in Multicomponent Media. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 187-192.	0.9	1
39	Non-Linear Effects in NLC Media Undergoing Two Beams Irradiation. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 71-80.	0.9	1
40	HOLOGRAPHIC GRATING DESIGNED FOR THE STABILITY CONTROL OF AN ACTIVE INTERFEROMETRIC SETUP. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2011, 20, 15-21.	1.8	1
41	Optical bistability in Ag-Al <sub>2</sub> O <sub>3</sub> one-dimensional photonic crystals. <i>Europhysics Letters</i> , 2015, 112, 14005.	2.0	1
42	Optical trapping of gain-assisted plasmonic nano-shells: theoretical study of the optical forces in a pumped regime below the emission threshold. , 2021, , .		1
43	Gain-driven singular resonances in metal core/shell and nano-shell plasmonic particles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 0, , .	2.1	1
44	Nematic liquid crystal cells for optical spatial solitons (Nematicons). , 2007, , .		0
45	Light scattering and lasing in dye-doped nematic liquid crystals. , 2008, , .		0
46	Different reorientational regimes in a liquid crystalline medium undergoing multiple irradiation. , 2008, , .		0
47	Publisher's Note: Blue-shifted random-laser-mode selection in gain-assisted anisotropic complex fluids [Phys. Rev. E 83, 041711 (2011)]. <i>Physical Review E</i> , 2011, 83, .	2.1	0
48	Plasmon-mediated discrete diffraction behaviour of an array of responsive waveguides. <i>Nanoscale</i> , 2019, 11, 17931-17938.	5.6	0