

Pasquale Pagliusi

List of Publications by Year in descending order

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84
papers

1,387
citations

304743

22
h-index

377865

34
g-index

85
all docs

85
docs citations

85
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient liquid crystal based diffraction grating induced by polarization holograms at the aligning surfaces. Applied Physics Letters, 2006, 89, 121105.	3.3	153
2	Polarization-dependent optomechanics mediated by chiral microresonators. Nature Communications, 2014, 5, 3656.	12.8	74
3	Electrically tunable two-dimensional liquid crystals gratings induced by polarization holography. Optics Express, 2007, 15, 5872.	3.4	71
4	Surface-induced photorefractive-like effect in pure liquid crystals. Applied Physics Letters, 2002, 80, 168-170.	3.3	66
5	Polymer dispersed liquid crystals: effects of photorefractivity and local heating on holographic recording. Chemical Physics, 1999, 245, 429-436.	1.9	50
6	Reversible Photoinduced Chiral Structure in Amorphous Polymer for Light Polarization Control. Macromolecules, 2008, 41, 5992-5996.	4.8	49
7	Mirrorless lasing from nematic liquid crystals in the plane waveguide geometry without refractive index or gain modulation. Applied Physics Letters, 2006, 89, 031114.	3.3	40
8	Influence of the ions on the dynamical response of a nematic cell submitted to a dc voltage. Physical Review E, 2004, 69, 051708.	2.1	39
9	Charge transport due to photoelectric interface activation in pure nematic liquid-crystal cells. Journal of Applied Physics, 2002, 92, 4863-4869.	2.5	36
10	Photorefractive effect due to a photoinduced surface-charge modulation in undoped liquid crystals. Physical Review E, 2004, 69, 061708.	2.1	35
11	Nonlocal dynamic gratings and energy transfer by optical two-beam coupling in a nematic liquid crystal owing to highly sensitive photoelectric reorientation. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1632.	2.1	33
12	Highly efficient generation of vector beams through polarization holograms. Applied Physics Letters, 2013, 102, .	3.3	31
13	Light-induced rotations of chiral birefringent microparticles in optical tweezers. Scientific Reports, 2016, 6, 31977.	3.3	31
14	Extremely sensitive light-induced reorientation in nondoped nematic liquid crystal cells due to photoelectric activation of the interface. Journal of Applied Physics, 2003, 93, 9116-9122.	2.5	29
15	Molecular reorientation dynamics due to direct current voltage-induced ion redistribution in undoped nematic planar cell. Journal of Applied Physics, 2004, 96, 218-223.	2.5	28
16	Surface relief gratings on polymer dispersed liquid crystals by polarization holography. Applied Physics Letters, 2004, 85, 2505-2507.	3.3	28
17	Simple voltage tunable liquid crystal laser. Applied Physics Letters, 2007, 90, 131103.	3.3	28
18	Polarization gradient: exploring an original route for optical trapping and manipulation. Optics Express, 2010, 18, 6008.	3.4	28

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19	Polarization Holographic Recording in Amorphous Polymer with Photoinduced Linear and Circular Birefringence. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8900-8904.	2.6	28
20	Supramolecular Chiral Structures: Smart Polymer Organization Guided by 2D Polarization Light Patterns. <i>Advanced Functional Materials</i> , 2012, 22, 2964-2970.	14.9	27
21	Sensing Vase-to-Kite Switching of Cavitands by Sum-Frequency Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 12610-12611.	13.7	23
22	Lasing in cholesteric liquid crystal cells: Competition of Bragg and leaky modes. <i>Journal of Applied Physics</i> , 2007, 101, 053104.	2.5	23
23	Method for artifact-free circular dichroism measurements based on polarization grating. <i>Optics Letters</i> , 2010, 35, 1822.	3.3	22
24	Dynamic grating features for the surface-induced photorefractive effect in undoped nematics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 996.	2.1	19
25	Polarization holograms allow highly efficient generation of complex light beams. <i>Optics Express</i> , 2013, 21, 7505.	3.4	19
26	Light manipulation of nanoparticles in arrays of topological defects. <i>Scientific Reports</i> , 2016, 6, 20742.	3.3	19
27	Spatial periodicity of photorefractive orientational gratings in dye-doped polymer-liquid crystal composite. <i>Optics Communications</i> , 2000, 185, 171-175.	2.1	18
28	Spectrograph Based on a Single Diffractive Element for Real-Time Measurement of Circular Dichroism. <i>Applied Spectroscopy</i> , 2008, 62, 465-468.	2.2	17
29	Pure two-dimensional polarization patterns for holographic recording. <i>Optics Letters</i> , 2012, 37, 311.	3.3	17
30	Liquid crystal microlens arrays recorded by polarization holography. <i>Applied Optics</i> , 2015, 54, 3303.	2.1	17
31	Cholesteric solid spherical microparticles: chiral optomechanics and microphotonics. <i>Liquid Crystals Reviews</i> , 2016, 4, 59-79.	4.1	15
32	Tuning Cholesteric Selective Reflection In Situ Upon Two-Photon Polymerization Enables Structural Multicolor 4D Microfabrication. <i>Advanced Optical Materials</i> , 2022, 10, 2101526.	7.3	15
33	Single-step polarization holographic method for programmable microlens arrays. <i>Optics Letters</i> , 2012, 37, 4958.	3.3	14
34	Polarization Holograms in a Bifunctional Amorphous Polymer Exhibiting Equal Values of Photoinduced Linear and Circular Birefringences. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11849-11854.	2.6	14
35	Tunable Surface Patterning of Azopolymer by Vectorial Holography: The Role of Photoanisotropies in the Driving Force. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34471-34477.	8.0	14
36	A Bifunctional Amorphous Polymer Exhibiting Equal Linear and Circular Photoinduced Birefringences. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1890-1895.	3.9	13

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37	Molecular orientation and alignment of rubbed poly(vinyl cinnamate) surfaces. <i>Journal of Chemical Physics</i> , 2006, 125, 201104.	3.0	12
38	Magnus force effect in optical manipulation. <i>Physical Review A</i> , 2011, 84, .	2.5	12
39	Chiral resolution of spin angular momentum in linearly polarized and unpolarized light. <i>Scientific Reports</i> , 2015, 5, 16926.	3.3	12
40	Electrical response of a liquid crystal cell: The role of Debye's layer. <i>Applied Physics Letters</i> , 2006, 89, 132901.	3.3	11
41	Quasi-in-plane leaky modes in lasing cholesteric liquid crystal cells. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	10
42	Optical two-beam coupling for a surface-induced photorefractive effect in undoped liquid crystals. <i>Optics Letters</i> , 2003, 28, 2369.	3.3	9
43	ELECTRIC FIELD TUNING A SPECTRUM OF NEMATIC LIQUID CRYSTAL LASING WITH THE USE OF A PERIODIC SHADOW MASK. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007, 16, 75-90.	1.8	9
44	Vector beams generated by tunable liquid crystal polarization holograms. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	9
45	Influence of Photoanisotropies on Light-Controllable Structuration of Azopolymer Surface. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1597-1604.	4.4	9
46	Insight into diffusive and convective processes affecting gold nanoparticles microclustering by multiphoton photoreduction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125927.	4.7	9
47	Liquid Crystal Based Polarization Gratings for Spectro-Polarimetric Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 558, 109-119.	0.9	7
48	Periodic defects lines in liquid crystal cell guided by polarization holograms at an aligning surface. <i>Applied Physics Letters</i> , 2013, 103, 151913.	3.3	7
49	Topological defects arrays and control of electro-convections in periodically photo-aligned bent-core nematics. <i>Journal of Molecular Liquids</i> , 2020, 318, 114058.	4.9	7
50	Liquid crystal as laser medium with tunable gain spectra. <i>Optics Express</i> , 2008, 16, 6625.	3.4	6
51	Sum-Frequency Vibrational Spectroscopy Study of Photoirradiated Polymer Surfaces. <i>Macromolecules</i> , 2009, 42, 2122-2126.	4.8	6
52	Tuning the Thermal Properties of Azopolymers Synthesized by Post-Functionalization of Poly(propargyl Methacrylate) with Azobenzene Azides: Influence on the Generation of Linear and Circular Birefringences. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800318.	2.2	6
53	Transient photoinduced current in dye-doped polymer and polymer-dispersed liquid crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 182.	2.1	5
54	Self-organized internal architectures of chiral micro-particles. <i>APL Materials</i> , 2014, 2, .	5.1	5

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55	Probing Molecular Recognition at the Solid-Gas Interface by Sum-Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3022-3026.	4.6	5
56	Collective motion of chiral Brownian particles controlled by a circularly-polarized laser beam. <i>Soft Matter</i> , 2020, 16, 7704-7714.	2.7	4
57	Biocompatible and biomimetic keratin capped Au nanoparticles enable the inactivation of mesophilic bacteria via photo-thermal therapy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126950.	4.7	4
58	Multi-Wavelength Optical Patterning for Multiscale Materials Design. <i>Photonics</i> , 2021, 8, 481.	2.0	4
59	POLARIZED SPECTRA OF AMPLIFIED SPONTANEOUS EMISSION AND GAIN FOR GLYCERIN SOLUTIONS OF DYE RHODAMINE-640. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007, 16, 519-532.	1.8	3
60	Quasi-in-Plane Leaky Lasing Modes from Thin Waveguiding Layers of Nematic and Cholesteric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 37-50.	0.9	3
61	Surface-induced photorefractivity in twistable nematics: toward the all-optical control of gain. <i>Optics Express</i> , 2008, 16, 16343.	3.4	3
62	BAND NARROWING AND GAIN SPECTRA OF LASER DYE SOLUTIONS WITH SCATTERING TiO ₂ NANOPARTICLES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2008, 17, 71-83.	1.8	3
63	Probing Cavitand-Organosilane Hybrid Bilayers via Sum-Frequency Vibrational Spectroscopy. <i>Langmuir</i> , 2014, 30, 12843-12849.	3.5	3
64	Assessment of EtQxBx complexation in solution by steady-state and time-resolved fluorescence spectroscopy. <i>RSC Advances</i> , 2018, 8, 16314-16318.	3.6	3
65	Photopatterning of Azobenzene-Containing Liquid Crystalline Triblock Copolymers: Light-Induced Anisotropy and Photostabilization. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000384.	3.9	3
66	Shaping Airy beams by using tunable polarization holograms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, D103.	2.1	3
67	Investigation of Photorefractive Effect in Dye Doped PDLC: TBC Experiments and Photoinduced Currents Measurements. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 359, 119-129.	0.3	2
68	Surface vibrational spectroscopic studies of rubbed polyvinyl cinnamate for liquid crystal alignment. , 2006, 6332, 194.		2
69	Polarization gratings allow for real-time and artifact-free circular dichroism measurements. , 2011, , .		2
70	Electrical control of nanoparticles arrays created via topological defect lines design in anisotropic fluids. <i>Journal of Molecular Liquids</i> , 2018, 267, 297-302.	4.9	2
71	Optical Manipulation of Liquid Crystal Droplets Through Holographic Polarized Tweezers: Magnus Effect. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 558, 72-83.	0.9	1
72	Smart Materials: Supramolecular Chiral Structures: Smart Polymer Organization Guided by 2D Polarization Light Patterns (<i>Adv. Funct. Mater.</i> 14(2012)). <i>Advanced Functional Materials</i> , 2012, 22, 2882-2882.	14.9	1

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73	Core-shell chiral polymeric-metallic particles obtained in a single step by concurrent light induced processes. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 113-123.	9.4	1
74	Photorefractive-like gratings in non-doped nematic liquid crystal cells induced by photoelectric activation of polymer-liquid crystal interface. , 0, , .		0
75	All-optical control of gain via surface-induced photorefractivity in twistable nematic. , 2008, , .		0
76	2D gratings of twisted nematic induced by polarization holography. , 2008, , .		0
77	Optical trapping and manipulation involving liquid crystals and vectorial holography. , 2009, , .		0
78	Diffraction spectrograph For real time circular dichroism measurements. , 2009, , .		0
79	Photoinduced superstructural chirality in photochromic polymer: A viable route to light polarization control. , 2009, , .		0
80	Real-Time Circular Dichroism Spectrograph Based on a Single Liquid Crystal Diffractive Element. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 516, 233-239.	0.9	0
81	Generation of complex beams by means of polarization holograms. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
82	Polarization Dependent Optical Forces on Chiral Microresonators. , 2014, , .		0
83	Exploring unconventional capabilities of holographic tweezers. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
84	Generation of curvilinear inhomogeneous polarization beams. , 2018, , .		0