Pasquale Pagliusi

List of Publications by Year
in descending order

84	1,387	304743	377865
papers	citations	22 h-index	34 g-index

85	85	85	1079
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Core-shell chiral polymeric-metallic particles obtained in a single step by concurrent light induced processes. Journal of Colloid and Interface Science, 2022, 606, 113-123.	9.4	1
2	Tuning Cholesteric Selective Reflection In Situ Upon Twoâ€Photon Polymerization Enables Structural Multicolor 4D Microfabrication. Advanced Optical Materials, 2022, 10, 2101526.	7.3	15
3	Insight into diffusive and convective processes affecting gold nanoparticles microclustering by multiphoton photoreduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125927.	4.7	9
4	Biocompatible and biomimetic keratin capped Au nanoparticles enable the inactivation of mesophilic bacteria via photo-thermal therapy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126950.	4.7	4
5	Multi-Wavelength Optical Patterning for Multiscale Materials Design. Photonics, 2021, 8, 481.	2.0	4
6	Collective motion of chiral Brownian particles controlled by a circularly-polarized laser beam. Soft Matter, 2020, 16, 7704-7714.	2.7	4
7	Topological defects arrays and control of electro-convections in periodically photo-aligned bent-core nematics. Journal of Molecular Liquids, 2020, 318, 114058.	4.9	7
8	Photopatterning of Azobenzeneâ€Containing Liquid Crystalline Triblock Copolymers: Lightâ€Induced Anisotropy and Photostabilization. Macromolecular Rapid Communications, 2020, 41, e2000384.	3.9	3
9	Influence of Photoanisotropies on Light-Controllable Structuration of Azopolymer Surface. ACS Applied Polymer Materials, 2020, 2, 1597-1604.	4.4	9
10	Tunable Surface Patterning of Azopolymer by Vectorial Holography: The Role of Photoanisotropies in the Driving Force. ACS Applied Materials & Interfaces, 2019, 11, 34471-34477.	8.0	14
11	Shaping Airy beams by using tunable polarization holograms. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D103.	2.1	3
12	Electrical control of nanoparticles arrays created via topological defect lines design in anisotropic fluids. Journal of Molecular Liquids, 2018, 267, 297-302.	4.9	2
13	Tuning the Thermal Properties of Azopolymers Synthesized by Postâ€Functionalization of Poly(propargyl Methacrylate) with Azobenzene Azides: Influence on the Generation of Linear and Circular Birefringences. Macromolecular Chemistry and Physics, 2018, 219, 1800318.	2.2	6
14	Assessment of EtQxBox complexation in solution by steady-state and time-resolved fluorescence spectroscopy. RSC Advances, 2018, 8, 16314-16318.	3.6	3
15	Generation of curvilinear inhomogeneous polarization beams. , 2018, , .		0
16	Vector beams generated by tunable liquid crystal polarization holograms. Journal of Applied Physics, 2017, 121, .	2.5	9
17	Light manipulation of nanoparticles in arrays of topological defects. Scientific Reports, 2016, 6, 20742.	3.3	19
18	Probing Molecular Recognition at the Solidâ€“Gas Interface by Sum-Frequency Vibrational Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 3022-3026.	4.6	5

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19	Light-induced rotations of chiral birefringent microparticles in optical tweezers. Scientific Reports, 2016, 6, 31977.	3.3	31
20	Cholesteric solid spherical microparticles: chiral optomechanics and microphotonics. Liquid Crystals Reviews, 2016, 4, 59-79.	4.1	15
21	Chiral resolution of spin angular momentum in linearly polarized and unpolarized light. Scientific Reports, 2015, 5, 16926.	3.3	12
22	Liquid crystal microlens arrays recorded by polarization holography. Applied Optics, 2015, 54, 3303.	2.1	17
23	Polarization Dependent Optical Forces on Chiral Microresonators. , 2014, , .		0
24	Self-organized internal architectures of chiral micro-particles. APL Materials, 2014, 2, .	5.1	5
25	Polarization-dependent optomechanics mediated by chiral microresonators. Nature Communications, 2014, 5, 3656.	12.8	74
26	Probing Cavitandâ€“Organosilane Hybrid Bilayers via Sum-Frequency Vibrational Spectroscopy. Langmuir, 2014, 30, 12843-12849.	3.5	3
27	Polarization Holograms in a Bifunctional Amorphous Polymer Exhibiting Equal Values of Photoinduced Linear and Circular Birefringences. Journal of Physical Chemistry B, 2014, 118, 11849-11854.	2.6	14
28	A Bifunctional Amorphous Polymer Exhibiting Equal Linear and Circular Photoinduced Birefringences. Macromolecular Rapid Communications, 2014, 35, 1890-1895.	3.9	13
29	Periodic defects lines in liquid crystal cell guided by polarization holograms at an aligning surface. Applied Physics Letters, 2013, 103, 151913.	3.3	7
30	Highly efficient generation of vector beams through polarization holograms. Applied Physics Letters, 2013, 102, .	3.3	31
31	Polarization holograms allow highly efficient generation of complex light beams. Optics Express, 2013, 21, 7505.	3.4	19
32	Single-step polarization holographic method for programmable microlens arrays. Optics Letters, 2012, 37, 4958.	3.3	14
33	Generation of complex beams by means of polarization holograms. Proceedings of SPIE, 2012, , .	0.8	0
34	Pure two-dimensional polarization patterns for holographic recording. Optics Letters, 2012, 37, 311.	3.3	17
35	Liquid Crystal Based Polarization Gratings for Spectro-Polarimetric Applications. Molecular Crystals and Liquid Crystals, 2012, 558, 109-119.	0.9	7
36	Optical Manipulation of Liquid Crystal Droplets Through Holographic Polarized Tweezers: Magnus Effect. Molecular Crystals and Liquid Crystals, 2012, 558, 72-83.	0.9	1

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37	Supramolecular Chiral Structures: Smart Polymer Organization Guided by 2D Polarization Light Patterns. Advanced Functional Materials, 2012, 22, 2964-2970.	14.9	27
38	Smart Materials: Supramolecular Chiral Structures: Smart Polymer Organization Guided by 2D Polarization Light Patterns (Adv. Funct. Mater. 14/2012). Advanced Functional Materials, 2012, 22, 2882-2882.	14.9	1
39	Magnus force effect in optical manipulation. Physical Review A, 2011, 84, .	2.5	12
40	Polarization gratings allow for real-time and artifact-free circular dichroism measurements. , 2011, , .		2
41	Exploring unconventional capabilities of holographic tweezers. Proceedings of SPIE, 2011, , .	0.8	0
42	Real-Time Circular Dichroism Spectrograph Based on a Single Liquid Crystal Diffractive Element. Molecular Crystals and Liquid Crystals, 2010, 516, 233-239.	0.9	0
43	Polarization gradient: exploring an original route for optical trapping and manipulation. Optics Express, 2010, 18, 6008.	3.4	28
44	Method for artifact-free circular dichroism measurements based on polarization grating. Optics Letters, 2010, 35, 1822.	3.3	22
45	Polarization Holographic Recording in Amorphous Polymer with Photoinduced Linear and Circular Birefringence. Journal of Physical Chemistry B, 2010, 114, 8900-8904.	2.6	28
46	Optical trapping and manipulation involving liquid crystals and vectorial holography. , 2009, , .		0
47	Diffractive spectrograph For real time circular dichroism measurements. , 2009, , .		0
48	Photoinduced superstructural chirality in photochromic polymer: A viable route to light polarization control. , 2009, , .		0
49	Sum-Frequency Vibrational Spectroscopy Study of Photoirradiated Polymer Surfaces. Macromolecules, 2009, 42, 2122-2126.	4.8	6
50	Spectrograph Based on a Single Diffractive Element for Real-Time Measurement of Circular Dichroism. Applied Spectroscopy, 2008, 62, 465-468.	2.2	17
51	Liquid crystal as laser medium with tunable gain spectra. Optics Express, 2008, 16, 6625.	3.4	6
52	Surface-induced photorefractivity in twistable nematics: toward the all-optical control of gain. Optics Express, 2008, 16, 16343.	3.4	3
53	All-optical control of gain via surface-induced photorefractivity in twistable nematic. , 2008, , .		0
54	2D gratings of twisted nematic induced by polarization holography. , 2008, , .		0

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55	Reversible Photoinduced Chiral Structure in Amorphous Polymer for Light Polarization Control. Macromolecules, 2008, 41, 5992-5996.	4.8	49
56	BAND NARROWING AND GAIN SPECTRA OF LASER DYE SOLUTIONS WITH SCATTERING TiO2 NANOPARTICLES. Journal of Nonlinear Optical Physics and Materials, 2008, 17, 71-83.	1.8	3
57	Quasi-in-plane leaky modes in lasing cholesteric liquid crystal cells. Journal of Applied Physics, 2008, 104, .	2.5	10
58	ELECTRIC FIELD TUNING A SPECTRUM OF NEMATIC LIQUID CRYSTAL LASING WITH THE USE OF A PERIODIC SHADOW MASK. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 75-90.	1.8	9
59	POLARIZED SPECTRA OF AMPLIFIED SPONTANEOUS EMISSION AND GAIN FOR GLYCERIN SOLUTIONS OF DYE RHODAMINE-640. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 519-532.	1.8	3
60	Electrically tunable two-dimensional liquid crystals gratings induced by polarization holography. Optics Express, 2007, 15, 5872.	3.4	71
61	Simple voltage tunable liquid crystal laser. Applied Physics Letters, 2007, 90, 131103.	3.3	28
62	Lasing in cholesteric liquid crystal cells: Competition of Bragg and leaky modes. Journal of Applied Physics, 2007, 101, 053104.	2.5	23
63	Quasi-in-Plane Leaky Lasing Modes from Thin Waveguiding Layers of Nematic and Cholesteric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2007, 465, 37-50.	0.9	3
64	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
65	Sensing Vase-to-Kite Switching of Cavitands by Sum-Frequency Vibrational Spectroscopy. Journal of the American Chemical Society, 2006, 128, 12610-12611.	13.7	23
66	Molecular orientation and alignment of rubbed poly(vinyl cinnamate) surfaces. Journal of Chemical Physics, 2006, 125, 201104.	3.0	12
67	Highly efficient liquid crystal based diffraction grating induced by polarization holograms at the aligning surfaces. Applied Physics Letters, 2006, 89, 121105.	3.3	153
68	Surface vibrational spectroscopic studies of rubbed polyvinyl cinnamate for liquid crystal alignment. , 2006, 6332, 194.		2
69	Electrical response of a liquid crystal cell: The role of Debyeâ€™s layer. Applied Physics Letters, 2006, 89, 132901.	3.3	11
70	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
71	Photorefractive effect due to a photoinduced surface-charge modulation in undoped liquid crystals. Physical Review E, 2004, 69, 061708.	2.1	35
72	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

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73	Surface relief gratings on polymer dispersed liquid crystalsby polarization holography. Applied Physics Letters, 2004, 85, 2505-2507.	3.3	28
74	Dynamic grating features for the surface-induced photorefractive effect in undoped nematics. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 996.	2.1	19
75	Optical two-beam coupling for a surface-induced photorefractive effect in undoped liquid crystals. Optics Letters, 2003, 28, 2369.	3.3	9
76	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
77	Surface-induced photorefractive-like effect in pure liquid crystals. Applied Physics Letters, 2002, 80, 168-170.	3.3	66
78	Charge transport due to photoelectric interface activation in pure nematic liquid-crystal cells. Journal of Applied Physics, 2002, 92, 4863-4869.	2.5	36
79	Transient photoinduced current in dye-doped polymer and polymer-dispersed liquid crystals. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 182.	2.1	5
80	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
81	Investigation of Photorefractive Effect in Dye Doped PDLC: TBC Experiments and Photoinduced Currents Measurements. Molecular Crystals and Liquid Crystals, 2001, 359, 119-129.	0.3	2
82	Spatial periodicity of photorefractive orientational gratings in dye-doped polymerâ€“liquid crystal composite. Optics Communications, 2000, 185, 171-175.	2.1	18
83	Polymer dispersed liquid crystals: effects of photorefractivity and local heating on holographic recording. Chemical Physics, 1999, 245, 429-436.	1.9	50
84	Photorefractive-like gratings in non-doped nematic liquid crystal cells induced by photoelectric activation of polymer-liquid crystal interface. , 0, , .		0