

Luciano De Sio

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104
papers

1,737
citations

24
h-index

36
g-index

115
ext. papers

2,031
ext. citations

4.3
avg, IF

4.74
L-index

#	Paper	IF	Citations
104	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	161
103	Optofluidic modulator based on peristaltic nematogen microflows. <i>Nature Photonics</i> , 2011 , 5, 234-238	33.9	86
102	Digital polarization holography advancing geometrical phase optics. <i>Optics Express</i> , 2016 , 24, 18297-3063	3.3	67
101	Polymer-Based Nanomaterials for Photothermal Therapy: From Light-Responsive to Multifunctional Nanoplatforms for Synergistically Combined Technologies. <i>Biomacromolecules</i> , 2018 , 19, 4147-4167	6.9	63
100	Short pitch cholesteric electro-optical device based on periodic polymer structures. <i>Applied Physics Letters</i> , 2009 , 95, 011102	3.4	55
99	Tunable integrated optical filter made of a glass ion-exchanged waveguide and an electro-optic composite holographic grating. <i>Optics Express</i> , 2008 , 16, 9254-60	3.3	53
98	Composite holographic gratings containing light-responsive liquid crystals for visible bichromatic switching. <i>Advanced Materials</i> , 2010 , 22, 2316-9	2.4	48
97	Next-generation thermo-plasmonic technologies and plasmonic nanoparticles in optoelectronics. <i>Progress in Quantum Electronics</i> , 2015 , 41, 23-70	9.1	45
96	Hidden Gratings in Holographic Liquid Crystal Polymer-Dispersed Liquid Crystal Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13107-13112	9.5	42
95	Multifunctional Platform Based on Electrospun Nanofibers and Plasmonic Hydrogel: A Smart Nanostructured Pillow for Near-Infrared Light-Driven Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54328-54342	9.5	41
94	Photo-thermal effects in gold nanoparticles dispersed in thermotropic nematic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20281-7	3.6	40
93	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, 3721-7	1.7	40
92	All-optical switching of holographic gratings made of polymer-liquid-crystal-polymer slices containing azo-compounds. <i>Applied Physics Letters</i> , 2008 , 93, 181115	3.4	34
91	Universal soft matter template for photonic applications. <i>Soft Matter</i> , 2011 , 7, 3739	3.6	33
90	Beam shaping diffractive wave plates [Invited]. <i>Applied Optics</i> , 2018 , 57, A118-A121	1.7	32
89	Nano-Localized Heating Source for Photonics and Plasmonics. <i>Advanced Optical Materials</i> , 2013 , 1, 899-904	3.4	32
88	Double active control of the plasmonic resonance of a gold nanoparticle array. <i>Nanoscale</i> , 2012 , 4, 7619-23	2.3	30

87	POLICRYPS structures as switchable optical phase modulators. <i>Optics Express</i> , 2008 , 16, 7619-24	3.3	30
86	Personalized Reusable Face Masks with Smart Nano-Assisted Destruction of Pathogens for COVID-19: A Visionary Road. <i>Chemistry - A European Journal</i> , 2021 , 27, 6112-6130	4.8	29
85	All-optical control of localized plasmonic resonance realized by photoalignment of liquid crystals. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7483	7.1	28
84	Broad band tuning of the plasmonic resonance of gold nanoparticles hosted in self-organized soft materials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18967		28
83	Observation of tunable optical filtering in photosensitive composite structures containing liquid crystals. <i>Optics Letters</i> , 2011 , 36, 4755-7	3	25
82	All-optical switching in an optofluidic polydimethylsiloxane: Liquid crystal grating defined by cast-molding. <i>Applied Physics Letters</i> , 2010 , 96, 131112	3.4	25
81	Mesogenic versus non-mesogenic azo dye confined in a soft-matter template for realization of optically switchable diffraction gratings. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6811		24
80	. <i>Journal of Display Technology</i> , 2006 , 2, 38-51		24
79	Photo-sensitive liquid crystals for optically controlled diffraction gratings. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6669		22
78	Short period holographic structures for backlight display applications. <i>Optics Express</i> , 2007 , 15, 10540-52,3		20
77	Electro-/All-Optical Light Extraction in Gold Photonic Quasi-crystals Layered with Photosensitive Liquid Crystals. <i>Advanced Optical Materials</i> , 2014 , 2, 950-955	8.1	19
76	Advances in Transparent Planar Optics: Enabling Large Aperture, Ultrathin Lenses. <i>Advanced Optical Materials</i> , 2021 , 9, 2001692	8.1	19
75	Stimuli-responsive nanoparticle-assisted immunotherapy: a new weapon against solid tumours. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 1823-1840	7.3	18
74	Parallel sorting of orbital and spin angular momenta of light in a record large number of channels. <i>Optics Letters</i> , 2018 , 43, 2256-2259	3	17
73	Dynamic Photonic Materials Based on Liquid Crystals. <i>Progress in Optics</i> , 2013 , 1-64	3.4	17
72	Thermoplasmonic-Activated Hydrogel Based Dynamic Light Attenuator. <i>Advanced Optical Materials</i> , 2020 , 8, 2000324	8.1	17
71	A command layer for anisotropic plasmonic photo-thermal effects in liquid crystal. <i>Liquid Crystals</i> , 2018 , 45, 2214-2220	2.3	17
70	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines. <i>Small Methods</i> , 2021 , 5, 2100402	12.8	17

69	Thermo-Plasmonic Killing of TG1 Bacteria. <i>Materials</i> , 2019 , 12,	3.5	16
68	Silicon oxide deposition for enhanced optical switching in polydimethylsiloxane-liquid crystal hybrids. <i>Optics Express</i> , 2011 , 19, 23532-7	3.3	16
67	Biomimetic keratin gold nanoparticle-mediated photothermal therapy on glioblastoma multiforme. <i>Nanomedicine</i> , 2021 , 16, 121-138	5.6	16
66	Ultra-fast solid state electro-optical modulator based on liquid crystal polymer and liquid crystal composites. <i>Applied Physics Letters</i> , 2014 , 105, 231122	3.4	15
65	In situ polarized micro-Raman investigation of periodic structures realized in liquid-crystalline composite materials. <i>Optics Express</i> , 2011 , 19, 10494-500	3.3	15
64	Characterization of an active control system for holographic setup stabilization. <i>Applied Optics</i> , 2008 , 47, 1363-7	1.7	14
63	Observation of two-wave coupling during the formation of POLICRYPS diffraction gratings. <i>Optics Letters</i> , 2005 , 30, 1840-2	3	14
62	Chameleon-inspired multifunctional plasmonic nanoplatfoms for biosensing applications. <i>NPG Asia Materials</i> , 2022 , 14,	10.3	14
61	Antimicrobial Effects of Chemically Functionalized and/or Photo-Heated Nanoparticles. <i>Materials</i> , 2019 , 12,	3.5	13
60	Conformal Silk-Azobenzene Composite for Optically Switchable Diffractive Structures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30951-30957	9.5	13
59	POLICRYPS-based electrically switchable Bragg reflector. <i>Optics Express</i> , 2015 , 23, 32696-702	3.3	13
58	Electro-switchable polydimethylsiloxane-based optofluidics. <i>Lab on A Chip</i> , 2012 , 12, 3760-5	7.2	13
57	Optically controlled holographic beam splitter. <i>Applied Physics Letters</i> , 2010 , 97, 183507	3.4	13
56	Jones matrix analysis of dichroic phase retarders realized in soft matter composite materials. <i>Optics Express</i> , 2010 , 18, 5776-84	3.3	13
55	Optical control of plasmonic heating effects using reversible photo-alignment of nematic liquid crystals. <i>Applied Physics Letters</i> , 2016 , 109, 191906	3.4	13
54	Tunable broadband optical filter based on soft-composite materials. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 065703	1.7	12
53	Plasmonic Thermometer Based on Thermotropic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 614, 93-99	0.5	11
52	Directed organization of DNA filaments in a soft matter template. <i>Langmuir</i> , 2013 , 29, 3398-403	4	11

51	Thermoplasmonic Activated Reverse-Mode Liquid Crystal Gratings. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3315-3322	5.6	10
50	Self-aligning liquid crystals in polymer composite systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 158-162	2.6	10
49	Characterization of the diffraction efficiency of polymer-liquid-crystal-polymer-slices gratings at all incidence angles. <i>Optics Express</i> , 2008 , 16, 14532-43	3.3	9
48	Developing novel liquid crystal technologies for display and photonic applications. <i>Displays</i> , 2015 , 36, 21-29	3.4	8
47	Electro and pressure tunable cholesteric liquid crystal devices based on ion-implanted flexible substrates. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7798	7.1	8
46	Soft periodic microstructures containing liquid crystals. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1176-84	3.4	8
45	POLICRYPS composite structures: realization, characterization and exploitation for electro-optical and all-optical applications. <i>Liquid Crystals Reviews</i> , 2013 , 1, 2-19	2.8	8
44	Optical interrogation system based on holographic soft matter filter. <i>Applied Physics Letters</i> , 2011 , 98, 151103	3.4	8
43	Dynamic optical properties of gold nanoparticles/cholesteric liquid crystal arrays. <i>MRS Communications</i> , 2018 , 8, 550-555	2.7	7
42	Nanosecond switching of photo-responsive liquid crystal diffraction gratings. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3532	7.1	7
41	Dual-mode control of light by two-dimensional periodic structures realized in liquid-crystalline composite materials. <i>Optics Letters</i> , 2010 , 35, 2759-61	3	7
40	Chapter 5: Polymer Dispersed Liquid Crystals. <i>RSC Soft Matter</i> , 2019 , 61-104	0.5	7
39	Stimuli responsive diffraction gratings in soft-composite materials. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 053001	3	7
38	Liquid Crystals as an Active Medium: Novel Possibilities in Plasmonics. <i>Nanospectroscopy</i> , 2015 , 1,		5
37	Spontaneous radial liquid crystals alignment on curved polymeric surfaces. <i>Applied Physics Letters</i> , 2014 , 104, 221112	3.4	5
36	Templating gold nanorods with liquid crystalline DNA. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 025007	0.7	5
35	Cycloidal diffractive waveplates fabricated using a high-power diode-pumped solid-state laser operating at 532nm. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, D136	1.7	5
34	Thermoplasmonics with Gold Nanoparticles: A New Weapon in Modern Optics and Biomedicine. <i>Advanced Photonics Research</i> , 2021 , 2, 2000198	1.9	5

33	Applications of nanomaterials in modern medicine. <i>Rendiconti Lincei</i> , 2015 , 26, 231-237	1.7	4
32	Photo-thermal effects in gold nanorods/DNA complexes. <i>Micro and Nano Systems Letters</i> , 2015 , 3,	2	4
31	Light-addressable liquid crystal polymer dispersed liquid crystal. <i>Optical Materials Express</i> , 2017 , 7, 1581-1586	2.6	4
30	Active Plasmonics in Self-organized Soft Materials. <i>Nano-optics and Nanophotonics</i> , 2013 , 307-326	0	4
29	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	3.4	4
28	Flexible Structures Based on a Short Pitch Cholesteric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 619, 35-41	0.5	3
27	Optofluidic Microstructures Containing Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 576, 135-140	0.5	3
26	Fast Electro-Optical Device Based on Chiral Liquid Crystals Encapsulated in Periodic Polymer Channels. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 525, 41-49	0.5	3
25	Light Sensitive Liquid Crystals for All-Optical Photonic Devices. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 560, 143-148	0.5	3
24	Plasmonic photoheating of gold nanorods in thermo-responsive chiral liquid crystals. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 125005	1.7	3
23	Nematic liquid crystals used to control photo-thermal effects in gold nanoparticles 2016 ,		2
22	Realization of an Optical Filter Using POLICRYPS Holographic Gratings on Glass Waveguides. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 486, 31/[1073]-37/[1079]	0.5	2
21	Geometric phase diffractive waveplate singularity arrays [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, D126	1.7	2
20	Frontispiece: Personalized Reusable Face Masks with Smart Nano-Assisted Destruction of Pathogens for COVID-19: A Visionary Road. <i>Chemistry - A European Journal</i> , 2021 , 27,	4.8	2
19	The transfer and amplification of cyanostilbene molecular function to advanced flexible optical paints through self-crosslinkable side-chain liquid crystal polysiloxanes. <i>Materials Horizons</i> , 2021 , 8, 1561-1569	14.4	2
18	Chirped POLICRYPS gratings containing self-aligning liquid crystals. <i>Materials Research Express</i> , 2017 , 4, 055303	1.7	1
17	Plasmonics Meets Biology through Optics. <i>Nanomaterials</i> , 2015 , 5, 1022-1033	5.4	1
16	Molecular Orientation of E7 Liquid Crystal in POLICRYPS Holographic Gratings: A Micro-Raman Spectroscopic Analysis. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 558, 46-53	0.5	1

15	General Purpose Soft Template for Photonic Applications: From All-Optical to Electrical Reconfigurability. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 553, 147-152	0.5	1
14	Realization of Photoresponsive Diffractive Beam Splitters. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 549, 57-61	0.5	1
13	Full Optical Control of Holographic Gratings Realized in Composite Materials Containing Photosensitive Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 526, 101-107	0.5	1
12	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	0.8	1
11	Crystal Engineering of Amphiphilic Organic Dye for Metallic Coloration. <i>Crystal Growth and Design</i> , 2020 , 20, 5896-5902	3.5	1
10	Control of the plasmonic resonance of a graphene coated plasmonic nanoparticle array combined with a nematic liquid crystal. <i>AIP Advances</i> , 2016 , 6, 075114	1.5	1
9	The POLICRYPS liquid-crystalline structure for optical applications. <i>Advanced Optical Technologies</i> , 2018 , 7, 273-289	0.9	1
8	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	5.1	1
7	Photo-Aligned Nematic Liquid Crystals Enable the Modulation of Thermoplasmonic Heating. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6272	2.6	0
6	Observation of hysteresis effects in POLICRYPS holographic gratings. <i>Optics Express</i> , 2010 , 18, 31-6	3.3	
5	LIGHT MODULATION ENABLED BY LIQUID CRYSTAL MICROFLOWS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2011 , 20, 397-404	0.8	
4	Liquid Crystals Order in Polymeric Microchannels 2015 , 1-14		
3	Liquid crystalline DNA: A smart polymer with a variety of applications ranging from photonics to plasmonics 2017 , 409-421		
2	Plasmon-mediated discrete diffraction behaviour of an array of responsive waveguides. <i>Nanoscale</i> , 2019 , 11, 17931-17938	7.7	
1	Thermoplasmonics with Gold Nanoparticles: A New Weapon in Modern Optics and Biomedicine. <i>Advanced Photonics Research</i> , 2021 , 2, 2170027	1.9	