

# Paolo Galatola

## List of Publications by Year in descending order

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67  
papers

1,299  
citations

331670

21  
h-index

377865

34  
g-index

67  
all docs

67  
docs citations

67  
times ranked

915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling planar degenerate wetting and anchoring in nematic liquid crystals. <i>Europhysics Letters</i> , 2005, 72, 403-409.	2.0	152
2	Anisotropic capillary interactions and jamming of colloidal particles trapped at a liquid-fluid interface. <i>Physical Review E</i> , 2002, 65, 031601.	2.1	75
3	System control by variation of the squeezing phase. <i>Optics Communications</i> , 1991, 85, 95-103.	2.1	67
4	Optical switching by variation of the squeezing phase. <i>Optics Communications</i> , 1991, 81, 175-178.	2.1	65
5	Behavior of colloidal particles at a nematic liquid crystal interface <sup>&amp;#x2013;</sup> . <i>Soft Matter</i> , 2011, 7, 1467-1471.	2.7	54
6	Universal normal-form description of squeezing and instabilities in two-photon processes. <i>Optics Communications</i> , 1990, 76, 276-286.	2.1	50
7	Long-range elastic forces between membrane inclusions in spherical vesicles. <i>Europhysics Letters</i> , 1998, 42, 233-238.	2.0	44
8	Capillary Force on a Micrometric Sphere Trapped at a Fluid Interface Exhibiting Arbitrary Curvature Gradients. <i>Physical Review Letters</i> , 2013, 111, 058302.	7.8	43
9	Nematic-Wetted Colloids in the Isotropic Phase: Pairwise Interaction, Biaxiality, and Defects. <i>Physical Review Letters</i> , 2001, 86, 3915-3918.	7.8	38
10	Molecular dynamics simulations of surface-induced ordering in a nematic liquid crystal. <i>Physical Review E</i> , 1997, 55, 477-480.	2.1	36
11	Analytical characterization of adhering vesicles. <i>Physical Review E</i> , 2002, 65, 041912.	2.1	36
12	Phase instability in two-photon optical bistability. <i>Optics Communications</i> , 1989, 69, 414-418.	2.1	33
13	Dynammin recruitment by clathrin coats: a physical step?. <i>Comptes Rendus - Biologies</i> , 2003, 326, 467-476.	0.2	32
14	Symmetry properties of anisotropic dielectric gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1994, 11, 1332.	1.5	30
15	Critical Fluctuations of Tense Fluid Membrane Tubules. <i>Physical Review Letters</i> , 2007, 98, 018103.	7.8	28
16	Squeezing in two-photon optical bistability and laser with injected signal. <i>Optics Communications</i> , 1989, 69, 419-424.	2.1	27
17	Two-photon double-beam optical bistability in the dispersive regime. <i>Physical Review A</i> , 1992, 46, 2735-2743.	2.5	26
18	Spatial dispersion and rotatory power of short-pitch periodic dielectric media. <i>Physical Review E</i> , 1997, 55, 4338-4344.	2.1	24

#	ARTICLE	IF	CITATIONS
19	Coarse-Grained Surface Energies and Temperature-Induced Anchoring Transitions in Nematic Liquid Crystals. <i>Physical Review Letters</i> , 1999, 82, 4859-4862.	7.8	23
20	Coarse-graining analysis of the Berreman anchoring. <i>Physical Review E</i> , 1999, 60, 2404-2407.	2.1	22
21	Capillary force acting on a colloidal particle floating on a deformed interface. <i>Soft Matter</i> , 2014, 10, 2197-2212.	2.7	22
22	Amplitude squeezing from second-harmonic generation in a laser cavity. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1990, 2, 49-69.	1.2	21
23	Nonspontaneous surface-induced nematic phase. <i>Physical Review E</i> , 2002, 66, 010701.	2.1	20
24	Interaction and flocculation of spherical colloids wetted by a surface-induced corona of paranematic order. <i>Physical Review E</i> , 2003, 67, 031404.	2.1	20
25	New Features of Two-Dimensional Soft Matter Domains: Dips and Quasicusps. <i>Physical Review Letters</i> , 1995, 75, 3297-3300.	7.8	19
26	Tubular vesicles and effective fourth-order membrane elastic theories. <i>Europhysics Letters</i> , 1997, 39, 225-230.	2.0	19
27	Berry phase analogies in nonlinear optics. <i>Optics Communications</i> , 1991, 80, 262-266.	2.1	17
28	Periodic attractors in two-photon processes. <i>Physical Review A</i> , 1991, 43, 424-432.	2.5	16
29	Thermal-fluctuation approach to Fr�edericksz transitions in nematic liquid crystals. <i>Physical Review E</i> , 1994, 49, 1458-1467.	2.1	16
30	van der Waals-induced distortions in nematic liquid crystals close to a surface. <i>Physical Review E</i> , 1996, 53, 6093-6100.	2.1	16
31	Critical-noise measurement near Fr�edericksz transitions in nematic liquid crystals. <i>Physical Review E</i> , 1994, 49, 623-628.	2.1	15
32	Spontaneous distortion of a nematic liquid crystal close to an interface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 210, 101-104.	2.1	13
33	High-order power series expansion of the elastic interaction between conical membrane inclusions. <i>European Physical Journal E</i> , 2015, 38, 86.	1.6	13
34	Form birefringence in helical liquid crystals. <i>Journal De Physique II</i> , 1994, 4, 333-347.	0.9	12
35	Sponges, Tubules and Modulated Phases of Para-Antinematic Membranes. <i>Journal De Physique II</i> , 1997, 7, 1509-1520.	0.9	12
36	Determination of the interactions in confined macroscopic Wigner islands: theory and experiments. <i>European Physical Journal B</i> , 2006, 50, 549-557.	1.5	12

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37	Corrections to the Laplace law for vesicle aspiration in micropipettes and other confined geometries. <i>Soft Matter</i> , 2008, 4, 2463.	2.7	12
38	Spontaneous capillary propulsion of liquid droplets on substrates with nonuniform curvature. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	12
39	Comment on "Curvature capillary migration of microspheres" by N. Sharifi-Mood, I. B. Liu and K. J. Stebe, <i>Soft Matter</i> , 2015, 11, 6768. <i>Soft Matter</i> , 2016, 12, 328-330.	2.7	10
40	Surface effects in field-induced smectic transitions. <i>European Physical Journal B</i> , 1998, 2, 51-56.	1.5	9
41	Berremans-matrix formulation of light propagation in stratified anisotropic chiral media. <i>European Physical Journal B</i> , 1999, 8, 399-404.	1.5	9
42	Coupling between Inclusions and Membranes at the Nanoscale. <i>Physical Review Letters</i> , 2018, 120, 128104.	7.8	9
43	Light-scattering study of Fréedericksz transitions in nematic liquid crystals. <i>Journal De Physique II</i> , 1992, 2, 1995-2010.	0.9	8
44	Nematic-Wetted Colloids in the Isotropic Phase. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 330, 535-539.	0.3	8
45	Exact calculations of the paranematic interaction energy for colloidal dispersions in the isotropic phase of a nematogenic material. <i>Physical Review E</i> , 2002, 65, 032702.	2.1	8
46	Effective anchoring and scaling in nematic liquid crystals. <i>European Physical Journal E</i> , 2000, 2, 59-65.	1.6	7
47	Light scattering in anisotropic stratified media. <i>Physical Review E</i> , 1994, 49, 4552-4562.	2.1	6
48	Tube formation and spontaneous budding in a fluid charged membrane. <i>Physical Review E</i> , 2005, 72, 041930.	2.1	6
49	Capillary force and torque on spheroidal particles floating at a fluid interface beyond the superposition approximation. <i>Physical Review E</i> , 2016, 93, 022604.	2.1	5
50	Spontaneous Undulation of Equilibrium Interfaces with Positive Surface Stiffness. <i>Physical Review Letters</i> , 1994, 73, 2212-2215.	7.8	4
51	Generation of nonclassical states by nonlinear optical systems. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1992, 55, 190-201.	1.5	3
52	Stationary Optical Noise in Planar Nematic Liquid Crystals Near the Fréedericksz Transition. <i>Molecular Crystals and Liquid Crystals</i> , 1993, 225, 23-31.	0.3	3
53	Non-Linear Theory of Flexoelectrically Induced Periodic Distortions in Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 261, 177-185.	0.3	2
54	Thermal relaxation model of surface director gliding in lyotropic liquid crystals. <i>Physical Review E</i> , 1997, 55, 4314-4320.	2.1	2

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55	On the Effects of a Nematic Phase Confined to a Membrane. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 332, 539-546.	0.3	2
56	Capillary interaction of microspheres with pinned boundary conditions: a clarification. <i>Soft Matter</i> , 2016, 12, 2802-2804.	2.7	2
57	Fr�edericksz transitions in zero-field distorted nematic liquid crystals. <i>Physical Review A</i> , 1992, 45, 3796-3802.	2.5	1
58	Surface-Induced Order Parameter Profiles in a Nematic Liquid Crystal from Molecular Dynamics Simulations. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 299, 61-64.	0.3	1
59	Optical Activity of Small Pitch Chiral Smectic C Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 302, 139-143.	0.3	1
60	Undulation Instability of the Interface Between a Smectic-C Liquid Crystal and its Isotropic or Nematic Melt. <i>Journal De Physique II</i> , 1995, 5, 1297-1320.	0.9	1
61	Time evolution equations for atomic quasiprobability distributions with arbitrary orderings. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1990, 2, 215-227.	1.2	0
62	SURFACE-INDUCED PHASES IN SMECTOGENIC COMPOUNDS. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 413, 145-150.	0.9	0
63	Interaction and structuration of membrane-binding and membrane-excluding colloidal particles in lamellar phases. <i>Soft Matter</i> , 2019, 15, 4351-4362.	2.7	0
64	Cholesteric Liquid Crystals: Optical Properties. , 2001, , 1219-1223.		0
65	Squeezing in Two-Photon Optical Bistability and Degenerate Four-Wave Mixing. , 1989, , 577-581.		0
66	Universal Normal-Form Description of Squeezing in Two-Photon Processes. , 1990, , 349-353.		0
67	Lateral drift of liquid droplets sliding down substrates with nonuniform dissipation. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	0