

Simon A. Eopar

List of Publications by Year in descending order

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54
papers

1,607
citations

279798

23
h-index

302126

39
g-index

54
all docs

54
docs citations

54
times ranked

1098
citing authors

#	ARTICLE	IF	CITATIONS
1	From coffee stains to uniform deposits: Significance of the contact-line mobility. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1718-1727.	9.4	7
2	Measure of overlap between two arbitrary ellipses on a sphere. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	2.1	0
3	Long-range order in quadrupolar systems on spherical surfaces. <i>Soft Matter</i> , 2021, 17, 4874-4883.	2.7	0
4	Self-shaping liquid crystal droplets by balancing bulk elasticity and interfacial tension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	24
5	Global order parameters for particle distributions on the sphere. <i>Physics of Fluids</i> , 2021, 33, 047109.	4.0	1
6	Introduction to Colloidal and Microfluidic Nematic Microstructures. <i>Crystals</i> , 2021, 11, 956.	2.2	14
7	Microfluidic control over topological states in channel-confined nematic flows. <i>Nature Communications</i> , 2020, 11, 59.	12.8	30
8	Interactions on the Interface between Two Liquid Crystal Materials. <i>Crystals</i> , 2020, 10, 393.	2.2	3
9	Orientational ordering of point dipoles on a sphere. <i>Physical Review B</i> , 2020, 102, .	3.2	6
10	Periodic Arrays of Chiral Domains Generated from the Self-Assembly of Micropatterned Achiral Lyotropic Chromonic Liquid Crystal. <i>ACS Central Science</i> , 2020, 6, 1964-1970.	11.3	18
11	Three-Dimensional Active Defect Loops. <i>Physical Review Letters</i> , 2020, 124, 088001.	7.8	36
12	Symmetry breaking of dipole orientations on Caspar-Klug lattices. <i>Physical Review Research</i> , 2020, 2, .	3.6	2
13	Topology of Three-Dimensional Active Nematic Turbulence Confined to Droplets. <i>Physical Review X</i> , 2019, 9, .	8.9	19
14	Spotting plantsâ€™ microfilament morphologies and nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13188-13193.	7.1	5
15	Spherical structure factor and classification of hyperuniformity on the sphere. <i>Physical Review E</i> , 2019, 99, 032601.	2.1	12
16	Point Defects, Topological Chirality, and Singularity Theory in Cholesteric Liquid-Crystal Droplets. <i>Physical Review X</i> , 2019, 9, .	8.9	14
17	Sculpting stable structures in pure liquids. <i>Science Advances</i> , 2019, 5, eaav4283.	10.3	25
18	Orientation, elastic interaction and magnetic response of asymmetric colloids in a nematic liquid crystal. <i>Scientific Reports</i> , 2019, 9, 81.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Mosaics of topological defects in micropatterned liquid crystal textures. <i>Science Advances</i> , 2018, 4, eaau8064.	10.3	50
20	Hidden topological constellations and polyvalent charges in chiral nematic droplets. <i>Nature Communications</i> , 2017, 8, 14594.	12.8	47
21	Action of fields on captive disclination loops. <i>European Physical Journal E</i> , 2017, 40, 28.	1.6	3
22	Field-controlled structures in ferromagnetic cholesteric liquid crystals. <i>Science Advances</i> , 2017, 3, e1701336.	10.3	31
23	Topology-commanded optical properties of bistable electric-field-induced torons in cholesteric bubble domains. <i>Scientific Reports</i> , 2017, 7, 16149.	3.3	26
24	Ray optics simulations of polarised microscopy textures in chiral nematic droplets. <i>Liquid Crystals</i> , 2017, 44, 679-687.	2.2	14
25	Hedgehogs in the dowser state. <i>European Physical Journal E</i> , 2016, 39, 121.	1.6	13
26	Topological defects in cholesteric liquid crystal shells. <i>Soft Matter</i> , 2016, 12, 9280-9288.	2.7	45
27	Nematic liquid crystal gyroids as photonic crystals. <i>Liquid Crystals</i> , 2016, 43, 2320-2331.	2.2	6
28	Waltzing route toward double-helix formation in cholesteric shells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9469-9474.	7.1	42
29	Sensing and tuning microfiber chirality with nematic chirogyral effect. <i>Physical Review E</i> , 2016, 93, 032703.	2.1	9
30	Points, skyrmions and torons in chiral nematic droplets. <i>Scientific Reports</i> , 2016, 6, 26361.	3.3	68
31	Persistent quasiplanar nematic texture: Its properties and topological defects. <i>Physical Review E</i> , 2016, 94, 042706.	2.1	18
32	Sensing surface morphology of biofibers by decorating spider silk and cellulosic filaments with nematic microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1174-1179.	7.1	31
33	Spherical microparticles with Saturn ring defects and their self-assembly across the nematic to smectic- A phase transition. <i>Physical Review E</i> , 2015, 92, 052501.	2.1	10
34	Knot theory realizations in nematic colloids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1675-1680.	7.1	48
35	Particles with changeable topology in nematic colloids. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 354111.	1.8	10
36	Light-controlled topological charge in a nematic liquid crystal. <i>Nature Physics</i> , 2015, 11, 183-187.	16.7	68

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37	Topological Switching and Orbiting Dynamics of Colloidal Spheres Dressed with Chiral Nematic Solitons. <i>Scientific Reports</i> , 2015, 4, 7337.	3.3	24
38	Janus Nematic Colloids with Designable Valence. <i>Materials</i> , 2014, 7, 4272-4281.	2.9	10
39	Geometry of the Cholesteric Phase. <i>Physical Review X</i> , 2014, 4, .	8.9	18
40	Topological zoo of free-standing knots in confined chiral nematic fluids. <i>Nature Communications</i> , 2014, 5, 3057.	12.8	96
41	Topology and geometry of nematic braids. <i>Physics Reports</i> , 2014, 538, 1-37.	25.6	30
42	Self-assembly of skyrmion-dressed chiral nematic colloids with tangential anchoring. <i>Physical Review E</i> , 2014, 89, 060502.	2.1	24
43	Ring around the colloid. <i>Soft Matter</i> , 2013, 9, 9099.	2.7	26
44	Visualisation methods for complex nematic fields. <i>Liquid Crystals</i> , 2013, 40, 1759-1768.	2.2	29
45	Singular values, nematic disclinations, and emergent biaxiality. <i>Physical Review E</i> , 2013, 87, 050504.	2.1	8
46	Quaternions and hybrid nematic disclinations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130204.	2.1	15
47	Elementary building blocks of nematic disclination networks in densely packed 3D colloidal lattices. <i>Soft Matter</i> , 2013, 9, 8203.	2.7	15
48	Topological and geometric decomposition of nematic textures. <i>Physical Review E</i> , 2012, 85, 031701.	2.1	18
49	Stability and rewiring of nematic braids in chiral nematic colloids. <i>Soft Matter</i> , 2012, 8, 8595.	2.7	19
50	Colloidal entanglement in highly twisted chiral nematic colloids: Twisted loops, Hopf links, and trefoil knots. <i>Physical Review E</i> , 2011, 84, 031703.	2.1	74
51	Reconfigurable Knots and Links in Chiral Nematic Colloids. <i>Science</i> , 2011, 333, 62-65.	12.6	358
52	Nematic Braids: Topological Invariants and Rewiring of Disclinations. <i>Physical Review Letters</i> , 2011, 106, 177801.	7.8	54
53	Nematic disclinations as twisted ribbons. <i>Physical Review E</i> , 2011, 84, 051702.	2.1	20
54	One-dimensional simulation of thin liquid-film-edge retraction. <i>Physical Review E</i> , 2010, 82, 056307.	2.1	3