

Bohdan I Senyuk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

1,888
citations

28
h-index

43
g-index

49
ext. papers

2,132
ext. citations

10.4
avg, IF

4.86
L-index

#	Paper	IF	Citations
49	Electrically Powered Locomotion of Dual-Nature Colloid-Hedgehog and Colloid-Umbilic Topological and Elastic Dipoles in Liquid Crystals.. <i>Langmuir</i> , 2022 , 38, 689-697	4	0
48	Transformation between elastic dipoles, quadrupoles, octupoles, and hexadecapoles driven by surfactant self-assembly in nematic emulsion. <i>Science Advances</i> , 2021 , 7,	14.3	3
47	Anisotropic electrostatic screening of charged colloids in nematic solvents. <i>Science Advances</i> , 2021 , 7,	14.3	5
46	Nematic Order, Plasmonic Switching and Self-Patterning of Colloidal Gold Bipyramids. <i>Advanced Science</i> , 2021 , 8, e2102854	13.6	4
45	Aerogel from Sustainably Grown Bacterial Cellulose Pellicles as a Thermally Insulative Film for Building Envelopes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34115-34121	9.5	7
44	Interplay of Electrostatic Dipoles and Monopoles with Elastic Interactions in Nematic Liquid Crystal Nanocolloids. <i>Nano Letters</i> , 2020 , 20, 7835-7843	11.5	4
43	Electrostatically controlled surface boundary conditions in nematic liquid crystals and colloids. <i>Science Advances</i> , 2019 , 5, eaax4257	14.3	13
42	High-order elastic multipoles as colloidal atoms. <i>Nature Communications</i> , 2019 , 10, 1825	17.4	10
41	Elastic colloidal monopoles and reconfigurable self-assembly in liquid crystals. <i>Nature</i> , 2019 , 570, 214-218	30.4	23
40	Degenerate conic anchoring and colloidal elastic dipole-hexadecapole transformations. <i>Nature Communications</i> , 2019 , 10, 1000	17.4	13
39	Cellulose-Based Reflective Liquid Crystal Films as Optical Filters and Solar Gain Regulators. <i>ACS Photonics</i> , 2018 , 5, 2468-2477	6.3	41
38	Chiral liquid crystal colloids. <i>Nature Materials</i> , 2018 , 17, 71-79	27	44
37	Electric switching of visible and infrared transmission using liquid crystals co-doped with plasmonic gold nanorods and dichroic dyes. <i>Optics Express</i> , 2018 , 26, 22264-22272	3.3	10
36	Hybrid molecular-colloidal liquid crystals. <i>Science</i> , 2018 , 360, 768-771	33.3	44
35	Repulsion-attraction switching of nematic colloids formed by liquid crystal dispersions of polygonal prisms. <i>Soft Matter</i> , 2017 , 13, 7398-7405	3.6	8
34	Edge pinning and transformation of defect lines induced by faceted colloidal rings in nematic liquid crystals. <i>Physical Review E</i> , 2016 , 93, 062704	2.4	15
33	Hexadecapolar colloids. <i>Nature Communications</i> , 2016 , 7, 10659	17.4	35

32	Self-assembly of colloidal particles in deformation landscapes of electrically driven layer undulations in cholesteric liquid crystals. <i>Physical Review E</i> , 2016 , 94, 042709	2.4	11
31	Optical Microscopy of Soft Matter Systems 2016 , 165-186		6
30	Triclinic nematic colloidal crystals from competing elastic and electrostatic interactions. <i>Science</i> , 2016 , 352, 69-73	33.3	71
29	Experimental realization of crossover in shape and director field of nematic tactoids. <i>Physical Review E</i> , 2015 , 91, 042507	2.4	46
28	Geometry-guided colloidal interactions and self-tiling of elastic dipoles formed by truncated pyramid particles in liquid crystals. <i>Physical Review E</i> , 2015 , 91, 040501	2.4	35
27	Colloidal spirals in nematic liquid crystals. <i>Soft Matter</i> , 2015 , 11, 8758-67	3.6	11
26	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. <i>Nature Communications</i> , 2015 , 6, 7157	17.4	47
25	Surface alignment, anchoring transitions, optical properties, and topological defects in the thermotropic nematic phase of organo-siloxane tetrapodes. <i>Soft Matter</i> , 2014 , 10, 500-9	3.6	26
24	Optically and elastically assembled plasmonic nanoantennae for spatially resolved characterization of chemical composition in soft matter systems using surface enhanced spontaneous and stimulated Raman scattering. <i>Journal of Applied Physics</i> , 2014 , 116, 063511	2.5	5
23	Magnetically responsive gourd-shaped colloidal particles in cholesteric liquid crystals. <i>Soft Matter</i> , 2014 , 10, 6014-23	3.6	26
22	Two-dimensional skyrmions and other solitonic structures in confinement-frustrated chiral nematics. <i>Physical Review E</i> , 2014 , 90, 012505	2.4	91
21	Towards template-assisted assembly of nematic colloids. <i>Physical Review Letters</i> , 2014 , 112, 225501	7.4	39
20	Rotational and translational diffusion of anisotropic gold nanoparticles in liquid crystals controlled by varying surface anchoring. <i>Physical Review E</i> , 2013 , 88, 062507	2.4	39
19	Topological colloids. <i>Nature</i> , 2013 , 493, 200-5	50.4	236
18	Active shape-morphing elastomeric colloids in short-pitch cholesteric liquid crystals. <i>Physical Review Letters</i> , 2013 , 110, 187802	7.4	37
17	Nematic liquid crystal boojums with handles on colloidal handlebodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9231-6	11.5	62
16	Plasmonic complex fluids of nematiclike and helicoidal self-assemblies of gold nanorods with a negative order parameter. <i>Physical Review Letters</i> , 2012 , 109, 088301	7.4	57
15	Nonlinear photoluminescence imaging of isotropic and liquid crystalline dispersions of graphene oxide. <i>ACS Nano</i> , 2012 , 6, 8060-6	16.7	34

14	Optical manipulation of shape-morphing elastomeric liquid crystal microparticles doped with gold nanocrystals. <i>Applied Physics Letters</i> , 2012 , 100, 241901	3.4	64
13	Search for biaxiality in a shape-persistent bent-core nematic liquid crystal. <i>Soft Matter</i> , 2012 , 8, 8880	3.6	51
12	Shape-dependent oriented trapping and scaffolding of plasmonic nanoparticles by topological defects for self-assembly of colloidal dimers in liquid crystals. <i>Nano Letters</i> , 2012 , 12, 955-63	11.5	112
11	Elastic interactions between colloidal microspheres and elongated convex and concave nanoprisms in nematic liquid crystals. <i>Soft Matter</i> , 2012 , 8, 8729	3.6	22
10	Reconfigurable interactions and three-dimensional patterning of colloidal particles and defects in lamellar soft media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4744-9	11.5	52
9	Optical manifestation of thermal expansion of a nematic liquid crystal 2012 ,		5
8	Molecular reorientation of a nematic liquid crystal by thermal expansion. <i>Nature Communications</i> , 2012 , 3, 1133	17.4	64
7	Surface Alignment, Anchoring Transitions, Optical Properties and Topological Defects in Nematic Bent-Core Materials C7 and C12. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 540, 20-41	0.5	32
6	Surface alignment, anchoring transitions, optical properties, and topological defects in the nematic phase of thermotropic bent-core liquid crystal A131. <i>Physical Review E</i> , 2010 , 82, 041711	2.4	57
5	Colloidal micromotor in smectic A liquid crystal driven by DC electric field. <i>Soft Matter</i> , 2008 , 4, 2471	3.6	38
4	Optical Trapping, Manipulation, and 3D Imaging of Disclinations in Liquid Crystals and Measurement of their Line Tension. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 450, 79/[279]-95/[295]	0.5	32
3	Undulations of lamellar liquid crystals in cells with finite surface anchoring near and well above the threshold. <i>Physical Review E</i> , 2006 , 74, 011712	2.4	52
2	Electric-field-induced nematic-cholesteric transition and three-dimensional director structures in homeotropic cells. <i>Physical Review E</i> , 2005 , 72, 061707	2.4	82
1	Switchable two-dimensional gratings based on field-induced layer undulations in cholesteric liquid crystals. <i>Optics Letters</i> , 2005 , 30, 349-51	3	67