

Bohdan I Senyuk

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2396424/bohdan-i-senyuk-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Topological colloids. <i>Nature</i> , 2013 , 493, 200-5	50.4	236
48	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
47	Two-dimensional skyrmions and other solitonic structures in confinement-frustrated chiral nematics. <i>Physical Review E</i> , 2014 , 90, 012505	2.4	91
46	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
45	Triclinic nematic colloidal crystals from competing elastic and electrostatic interactions. <i>Science</i> , 2016 , 352, 69-73	33.3	71
44	Switchable two-dimensional gratings based on field-induced layer undulations in cholesteric liquid crystals. <i>Optics Letters</i> , 2005 , 30, 349-51	3	67
43	Optical manipulation of shape-morphing elastomeric liquid crystal microparticles doped with gold nanocrystals. <i>Applied Physics Letters</i> , 2012 , 100, 241901	3.4	64
42	Molecular reorientation of a nematic liquid crystal by thermal expansion. <i>Nature Communications</i> , 2012 , 3, 1133	17.4	64
41	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
40	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
39	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
38	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
37	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
36	Search for biaxiality in a shape-persistent bent-core nematic liquid crystal. <i>Soft Matter</i> , 2012 , 8, 8880	3.6	51
35	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
34	Experimental realization of crossover in shape and director field of nematic tactoids. <i>Physical Review E</i> , 2015 , 91, 042507	2.4	46
33	Chiral liquid crystal colloids. <i>Nature Materials</i> , 2018 , 17, 71-79	27	44

32	Hybrid molecular-colloidal liquid crystals. <i>Science</i> , 2018 , 360, 768-771	33.3	44
31	Cellulose-Based Reflective Liquid Crystal Films as Optical Filters and Solar Gain Regulators. <i>ACS Photonics</i> , 2018 , 5, 2468-2477	6.3	41
30	Towards template-assisted assembly of nematic colloids. <i>Physical Review Letters</i> , 2014 , 112, 225501	7.4	39
29	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
28	Colloidal micromotor in smectic A liquid crystal driven by DC electric field. <i>Soft Matter</i> , 2008 , 4, 2471	3.6	38
27	Active shape-morphing elastomeric colloids in short-pitch cholesteric liquid crystals. <i>Physical Review Letters</i> , 2013 , 110, 187802	7.4	37
26	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
25	Hexadecapolar colloids. <i>Nature Communications</i> , 2016 , 7, 10659	17.4	35
24	Nonlinear photoluminescence imaging of isotropic and liquid crystalline dispersions of graphene oxide. <i>ACS Nano</i> , 2012 , 6, 8060-6	16.7	34
23	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
22	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
21	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
20	Magnetically responsive gourd-shaped colloidal particles in cholesteric liquid crystals. <i>Soft Matter</i> , 2014 , 10, 6014-23	3.6	26
19	Elastic colloidal monopoles and reconfigurable self-assembly in liquid crystals. <i>Nature</i> , 2019 , 570, 214-218	30.4	23
18	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
17	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
16	Electrostatically controlled surface boundary conditions in nematic liquid crystals and colloids. <i>Science Advances</i> , 2019 , 5, eaax4257	14.3	13
15	Degenerate conic anchoring and colloidal elastic dipole-hexadecapole transformations. <i>Nature Communications</i> , 2019 , 10, 1000	17.4	13

14	Colloidal spirals in nematic liquid crystals. <i>Soft Matter</i> , 2015 , 11, 8758-67	3.6	11
13	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
12	High-order elastic multipoles as colloidal atoms. <i>Nature Communications</i> , 2019 , 10, 1825	17.4	10
11	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
10	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
9	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
8	Optical Microscopy of Soft Matter Systems 2016 , 165-186		6
7	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
6	Optical manifestation of thermal expansion of a nematic liquid crystal 2012 ,		5
5	Anisotropic electrostatic screening of charged colloids in nematic solvents. <i>Science Advances</i> , 2021 , 7,	14.3	5
4	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
3	Nematic Order, Plasmonic Switching and Self-Patterning of Colloidal Gold Bipyramids. <i>Advanced Science</i> , 2021 , 8, e2102854	13.6	4
2	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
1	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