UroÅ¡ Tkalec

List of Publications by Year
in descending order

28 papers	2,298 citations	394286 19 h-index	642610 23 g-index
28 all docs	28 docs citations	28 times ranked	1464 citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid crystalâ€“based open surface microfluidics manipulate liquid mobility and chemical composition on demand. Science Advances, 2021, 7, eabi7607.	4.7	39
2	Microfluidic control over topological states in channel-confined nematic flows. Nature Communications, 2020, 11, 59.	5.8	30
3	Editorial: Topological Soft Matter. Frontiers in Physics, 2020, 8, .	1.0	0
4	Periodic Arrays of Chiral Domains Generated from the Self-Assembly of Micropatterned Achiral Lyotropic Chromonic Liquid Crystal. ACS Central Science, 2020, 6, 1964-1970.	5.3	18
5	Sculpting stable structures in pure liquids. Science Advances, 2019, 5, eaav4283.	4.7	25
6	Electromagnetic Field: A Textbook for Students of Physics at the University of Maribor, Faculty of Natural Sciences and Mathematics. , 2019, , .		0
7	Mosaics of topological defects in micropatterned liquid crystal textures. Science Advances, 2018, 4, eaau8064.	4.7	50
8	Knot theory realizations in nematic colloids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1675-1680.	3.3	48
9	Liquid Crystal Microfluidics for Tunable Flow Shaping. Physical Review Letters, 2013, 110, 048303.	2.9	94
10	Topology of nematic liquid crystal colloids confined to two dimensions. Soft Matter, 2013, 9, 8140.	1.2	50
11	Nematic textures in microfluidic environment. Soft Matter, 2011, 7, 6542.	1.2	45
12	Reconfigurable Knots and Links in Chiral Nematic Colloids. Science, 2011, 333, 62-65.	6.0	358
13	Theoretical and experimental study of the nanoparticle-driven blue phase stabilisation. European Physical Journal E, 2011, 34, 17.	0.7	62
14	Blue phase III widening in CE6-dispersed surface-functionalised CdSe nanoparticles. Liquid Crystals, 2010, 37, 1419-1426.	0.9	41
15	Mechanically Induced Biaxial Transition in a Nanoconfined Nematic Liquid Crystal with a Topological Defect. Physical Review Letters, 2009, 103, 167801.	2.9	53
16	Vortexlike Topological Defects in Nematic Colloids: Chiral Colloidal Dimers and 2D Crystals. Physical Review Letters, 2009, 103, 127801.	2.9	50
17	Colloidal structures and interactions in a nematic liquid crystal. Proceedings of SPIE, 2009, , .	0.8	0
18	Interactions of micro-rods in a thin layer of a nematic liquid crystal. Soft Matter, 2008, 4, 2402.	1.2	96

#	ARTICLE	IF	CITATIONS
19	Hierarchical self-assembly of nematic colloidal superstructures. Physical Review E, 2008, 77, 061706.	0.8	87
20	Nematic colloidal assemblies: towards photonic crystals and metamaterials. Proceedings of SPIE, 2008, , .	0.8	1
21	Optical manipulation of nematic colloids: wires, superstructures, and 2D crystals. Proceedings of SPIE, 2008, , .	0.8	0
22	Interactions of quadrupolar nematic colloids. Physical Review E, 2008, 77, 031705.	0.8	139
23	Two-dimensional dipolar nematic colloidal crystals. Physical Review E, 2007, 76, 051406.	0.8	101
24	Entangled Nematic Colloidal Dimers and Wires. Physical Review Letters, 2007, 99, 247801.	2.9	191
25	Orientation-dependent NMR study of the giant-unit-cell intermetallicsÎ²â^'Al3Mg2, Bergman-phaseMg32(Al,Zn)49, andÎ¾â€²â^'Al74Pd22Mn4. Physical Review B, 2007, 75, .	1.1	14
26	Self-assembly in nematic colloids. , 2007, , .		0
27	Transport and crystallization of colloidal particles in a thin nematic cell. European Physical Journal E, 2007, 24, 99-107.	0.7	10
28	Two-Dimensional Nematic Colloidal Crystals Self-Assembled by Topological Defects. Science, 2006, 313, 954-958.	6.0	696