

UroÅ; Tkalec

List of Publications by Year in descending order

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28
papers

2,298
citations

394286

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642610

23
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docs citations

28
times ranked

1464
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Nematic Colloidal Crystals Self-Assembled by Topological Defects. <i>Science</i> , 2006, 313, 954-958.	6.0	696
2	Reconfigurable Knots and Links in Chiral Nematic Colloids. <i>Science</i> , 2011, 333, 62-65.	6.0	358
3	Entangled Nematic Colloidal Dimers and Wires. <i>Physical Review Letters</i> , 2007, 99, 247801.	2.9	191
4	Interactions of quadrupolar nematic colloids. <i>Physical Review E</i> , 2008, 77, 031705.	0.8	139
5	Two-dimensional dipolar nematic colloidal crystals. <i>Physical Review E</i> , 2007, 76, 051406.	0.8	101
6	Interactions of micro-rods in a thin layer of a nematic liquid crystal. <i>Soft Matter</i> , 2008, 4, 2402.	1.2	96
7	Liquid Crystal Microfluidics for Tunable Flow Shaping. <i>Physical Review Letters</i> , 2013, 110, 048303.	2.9	94
8	Hierarchical self-assembly of nematic colloidal superstructures. <i>Physical Review E</i> , 2008, 77, 061706.	0.8	87
9	Theoretical and experimental study of the nanoparticle-driven blue phase stabilisation. <i>European Physical Journal E</i> , 2011, 34, 17.	0.7	62
10	Mechanically Induced Biaxial Transition in a Nanoconfined Nematic Liquid Crystal with a Topological Defect. <i>Physical Review Letters</i> , 2009, 103, 167801.	2.9	53
11	Vortexlike Topological Defects in Nematic Colloids: Chiral Colloidal Dimers and 2D Crystals. <i>Physical Review Letters</i> , 2009, 103, 127801.	2.9	50
12	Topology of nematic liquid crystal colloids confined to two dimensions. <i>Soft Matter</i> , 2013, 9, 8140.	1.2	50
13	Mosaics of topological defects in micropatterned liquid crystal textures. <i>Science Advances</i> , 2018, 4, eaau8064.	4.7	50
14	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.	3.3	48
15	Nematic textures in microfluidic environment. <i>Soft Matter</i> , 2011, 7, 6542.	1.2	45
16	Blue phase III widening in CE6-dispersed surface-functionalised CdSe nanoparticles. <i>Liquid Crystals</i> , 2010, 37, 1419-1426.	0.9	41
17	Liquid crystal-based open surface microfluidics manipulate liquid mobility and chemical composition on demand. <i>Science Advances</i> , 2021, 7, eabi7607.	4.7	39
18	Microfluidic control over topological states in channel-confined nematic flows. <i>Nature Communications</i> , 2020, 11, 59.	5.8	30

#	ARTICLE	IF	CITATIONS
19	Sculpting stable structures in pure liquids. <i>Science Advances</i> , 2019, 5, eaav4283.	4.7	25
20	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.	5.3	18
21	Orientation-dependent NMR study of the giant-unit-cell intermetallics Al_3Mg_2 , Bergman-phase $\text{Mg}_{32}(\text{Al},\text{Zn})_{49}$, and $\text{Al}_{74}\text{Pd}_{22}\text{Mn}_4$. <i>Physical Review B</i> , 2007, 75, .	1.1	14
22	Transport and crystallization of colloidal particles in a thin nematic cell. <i>European Physical Journal E</i> , 2007, 24, 99-107.	0.7	10
23	Nematic colloidal assemblies: towards photonic crystals and metamaterials. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
24	Self-assembly in nematic colloids. , 2007, , .		0
25	Optical manipulation of nematic colloids: wires, superstructures, and 2D crystals. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
26	Colloidal structures and interactions in a nematic liquid crystal. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
27	Editorial: Topological Soft Matter. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	0
28	Electromagnetic Field: A Textbook for Students of Physics at the University of Maribor, Faculty of Natural Sciences and Mathematics. , 2019, , .		0