Sathyanarayana Paladugu

List of Publications by Year
in descending order

23	665	623734 14	677142 22
papers	citations	h-index	g-index

24	24	24	533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Splay bend elasticity of a bent-core nematic liquid crystal. Physical Review E, 2010, 81, 010702.	2.1	108
2	Elastic and viscous properties of the nematic dimer CB7CB. Physical Review E, 2017, 96, 062704.	2.1	79
3	Nonadditivity of critical Casimir forces. Nature Communications, 2016, 7, 11403.	12.8	62
4	Splay-bend elasticity and rotational viscosity of liquid crystal mixtures of rod-like and bent-core molecules. Soft Matter, 2011, 7, 8556.	2.7	57
5	Structureâ€“property correlation of a hockey stick-shaped compound exhibiting N-SmA-SmCa phase transitions. Soft Matter, 2012, 8, 2322.	2.7	48
6	Electrically driven three-dimensional solitary waves as director bullets in nematic liquid crystals. Nature Communications, 2018, 9, 2912.	12.8	45
7	Viscoelasticity of ambient-temperature nematic binary mixtures of bent-core and rodlike molecules. Physical Review E, 2012, 85, 011702.	2.1	35
8	Splay-bend elasticity of a nematic liquid crystal with T-shaped molecules. Physical Review E, 2010, 82, 050701.	2.1	33
9	Three-dimensional solitary waves with electrically tunable direction of propagation in nematics. Nature Communications, 2019, 10, 3749.	12.8	28
10	Rotational Viscosity of a Bent-Core Nematic Liquid Crystal. Applied Physics Express, 2010, 3, 091702.	2.4	21
11	Topological defect transformation and structural transition of two-dimensional colloidal crystals across the nematic to smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math>phase transition. Physical Review E, 2015, 91, 030501.	2.1	21
12	Birefringence, permittivity, elasticity and rotational viscosity of ambient temperature, high birefringent nematic liquid crystal mixtures. Liquid Crystals, 2014, 41, 591-596.	2.2	18
13	Temperature- and electric-field-induced inverse Freedericksz transition in a nematogen with weak surface anchoring. Physical Review E, 2010, 82, 011701.	2.1	16
14	Dye-doped dual-frequency nematic cells as fast-switching polarization-independent shutters. Optics Express, 2019, 27, 3861.	3.4	15
15	Antagonistic flexoelectric response in liquid crystal mixtures of bent-core and rodlike molecules. Physical Review E, 2013, 87, 012506.	2.1	14
16	Microrheology to probe smectic clusters in bent-core nematic liquid crystals. Soft Matter, 2020, 16, 7556-7561.	2.7	13
17	Possible enhancement of physical properties of nematic liquid crystals by doping of conducting polymer nanofibres. Applied Physics Letters, 2013, 103, 141910.	3.3	12
18	Nonlinear Electrophoresis of Colloids Controlled by Anisotropic Conductivity and Permittivity of Liquid-Crystalline Electrolyte. Physical Review Applied, 2017, 7, .	3.8	12

#	Article	IF	Citations
19	Liquid crystal phases with unusual structures and physical properties formed by acute-angle bent core molecules. Physical Review Research, 2020, 2, .	3.6	10
20	Chiral Bentâ€Shaped Molecules Exhibiting Unusually Wide Range of Blue Liquidâ€Crystalline Phases and Multistimuliâ€Responsive Behavior. Chemistry - A European Journal, 2020, 26, 5859-5871.	3.3	8
21	Active and passive viscosities of a bent-core nematic liquid crystal. Physical Review E, 2013, 87, .	2.1	5
22	Polar POLICRYPS diffractive structures generate cylindrical vector beams. Applied Physics Letters, 2015, 107, .	3.3	5
23	Nonadditivity of critical Casimir forces. , 2017, , .		0