

Volodymyr Borshch

List of Publications by Year in descending order

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papers

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262
citing authors

#	ARTICLE	IF	CITATIONS
1	Microsecond Electro-Optic Switching of Nematic Liquid Crystals with Giant Dielectric Anisotropy. Physical Review Applied, 2019, 12, .	3.8	7
2	Enhanced nanosecond electro-optic effect in isotropic and nematic phases of dielectrically negative nematics doped by strongly polar additive. Journal of Molecular Liquids, 2018, 267, 450-455.	4.9	2
3	Electrically driven three-dimensional solitary waves as director bullets in nematic liquid crystals. Nature Communications, 2018, 9, 2912.	12.8	45
4	Kerr effect at high electric field in the isotropic phase of mesogenic materials. Physical Review E, 2015, 92, 050501.	2.1	10
5	Nanosecond electric modification of order parameter in nematic and isotropic phases of materials with negative and positive dielectric anisotropy. , 2015, , .		1
6	Ultrafast electro-optic switching in liquid crystals. , 2015, , .		0
7	Nanosecond liquid crystalline technologies for high speed optical communications: electro-optic switching through nanosecond electric modification of order parameter. , 2014, , .		0
8	Nanosecond electro-optics of a nematic liquid crystal with negative dielectric anisotropy. Physical Review E, 2014, 90, 062504.	2.1	19
9	Electro-optic switching of dielectrically negative nematic through nanosecond electric modification of order parameter. Applied Physics Letters, 2014, 104, 201105.	3.3	19
10	Nanosecond Electro-Optic Switching of a Liquid Crystal. Physical Review Letters, 2013, 111, 107802.	7.8	63
11	Viscoelasticity, dielectric anisotropy, and birefringence in the nematic phase of three four-ring bent-core liquid crystals with an L-shaped molecular frame. Soft Matter, 2013, 9, 1066-1075.	2.7	58
12	FAST SWITCHING SURFACE-POLYMER-ASSISTED VERTICALLY ALIGNED DISPLAYS. , 2013, , 275-290.		0
13	Electric Field Induced Biaxial Order and Differential Quenching of Uniaxial Fluctuations in a Nematic with Negative Dielectric Anisotropy. Molecular Crystals and Liquid Crystals, 2012, 559, 97-105.	0.9	7