

# Eva D Korblova

## List of Publications by Year in descending order

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72  
papers

4,558  
citations

186265

28  
h-index

98798

67  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1966  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision adiabatic scanning calorimetry of a nematic $\leftrightarrow$ ferroelectric nematic phase transition. <i>Liquid Crystals</i> , 2022, 49, 780-789.	2.2	5
2	Ideal mixing of paraelectric and ferroelectric nematic phases in liquid crystals of distinct molecular species. <i>Liquid Crystals</i> , 2022, 49, 1531-1544.	2.2	25
3	Polar in-plane surface orientation of a ferroelectric nematic liquid crystal: Polar monodomains and twisted state electro-optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	51
4	Electrically Tunable Reflection Color of Chiral Ferroelectric Nematic Liquid Crystals. <i>Advanced Optical Materials</i> , 2021, 9, 2101230.	7.3	30
5	Surface alignment of ferroelectric nematic liquid crystals. <i>Soft Matter</i> , 2021, 17, 8130-8139.	2.7	38
6	First-principles experimental demonstration of ferroelectricity in a thermotropic nematic liquid crystal: Polar domains and striking electro-optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14021-14031.	7.1	174
7	Frontispiece: Nanoconfinement of the Low- $\epsilon$ Temperature Dark Conglomerate: Structural Control from Focal Conics to Helical Nanofilaments. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	0
8	Nanoconfinement of the Low- $\epsilon$ Temperature Dark Conglomerate: Structural Control from Focal Conics to Helical Nanofilaments. <i>Chemistry - A European Journal</i> , 2019, 25, 7438-7442.	3.3	11
9	Structural transitions and guest/host complexing of liquid crystal helical nanofilaments induced by nanoconfinement. <i>Science Advances</i> , 2017, 3, e1602102.	10.3	32
10	The heliconical nematic twist-bend phase from $\alpha$ -bent-core benzylideneanilines with oligomethylene cores. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 647, 430-438.	0.9	5
11	New SmAPF Mesogens Designed for Analog Electrooptics Applications. <i>Materials</i> , 2017, 10, 1284.	2.9	4
12	Homeotropic alignment of multiple bent-core liquid crystal phases using a polydimethylsiloxane alignment layer. , 2017, , .		0
13	SmAPf phase, its properties and potential dye alignment (Conference Presentation). , 2016, , .		0
14	Host-guest chemistry in the helical nanofilament phase (Conference Presentation). , 2016, , .		0
15	Airflow-aligned helical nanofilament (B4) phase in topographic confinement. <i>Scientific Reports</i> , 2016, 6, 29111.	3.3	4
16	Manipulating the twist sense of helical nanofilaments of bent-core liquid crystals using rod-shaped, chiral mesogenic dopants. <i>Liquid Crystals</i> , 2016, 43, 1083-1091.	2.2	6
17	Diastereomeric liquid crystal domains at the mesoscale. <i>Nature Communications</i> , 2015, 6, 7763.	12.8	33
18	Physico-chemical confinement of helical nanofilaments. <i>Soft Matter</i> , 2015, 11, 3653-3659.	2.7	17

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19	Multidimensional Helical Nanostructures in Multiscale Nanochannels. <i>Langmuir</i> , 2015, 31, 8156-8161.	3.5	16
20	Field alignment of bent-core smectic liquid crystals for analog optical phase modulation. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	10
21	Nucleation and growth of a helical nanofilament (B4) liquid-crystal phase confined in nanobowls. <i>Soft Matter</i> , 2015, 11, 7778-7782.	2.7	9
22	Cybotactic behavior in the de Vries smectic-A* liquid-crystal structure formed by a silicon-containing molecule. <i>Physical Review E</i> , 2014, 89, 032502.	2.1	5
23	Ferroelectric and antiferroelectric odd-even behavior in a tricarbosilane-terminated liquid crystal homologous series. <i>Chemical Science</i> , 2014, 5, 1869-1874.	7.4	8
24	Chiral Isotropic Sponge Phase of Hexatic Smectic Layers of Achiral Molecules. <i>ChemPhysChem</i> , 2014, 15, 1502-1507.	2.1	13
25	Phase Winding of a Nematic Liquid Crystal by Dynamic Localized Reorientation of an Azo-Based Self-Assembled Monolayer. <i>Langmuir</i> , 2014, 30, 9560-9566.	3.5	11
26	Multistep hierarchical self-assembly of chiral nanopore arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14342-14347.	7.1	53
27	Topography of bent-core liquid crystals at the air/liquid crystal interface. <i>Liquid Crystals</i> , 2013, 40, 1730-1735.	2.2	10
28	Spiral layer undulation defects in B7 liquid crystals. <i>Soft Matter</i> , 2013, 9, 11303.	2.7	9
29	Nanoconfinement of guest materials by helical nanofilament networks of bent-core mesogens. <i>Soft Matter</i> , 2013, 9, 462-471.	2.7	51
30	Self-assembled hydrophobic surface generated from a helical nanofilament (B4) liquid crystal phase. <i>Soft Matter</i> , 2013, 9, 2793.	2.7	28
31	Athermal photofluidization of glasses. <i>Nature Communications</i> , 2013, 4, 1521.	12.8	111
32	A Modulated Helical Nanofilament Phase. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5254-5257.	13.8	45
33	Alignment of helical nanofilaments on the surfaces of various self-assembled monolayers. <i>Soft Matter</i> , 2013, 9, 6185.	2.7	38
34	Chiral heliconical ground state of nanoscale pitch in a nematic liquid crystal of achiral molecular dimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15931-15936.	7.1	431
35	Electro-optic response of the anticlinic, antiferroelectric liquid-crystal phase of a biaxial bent-core molecule with tilt angle near 45°. <i>Physical Review E</i> , 2012, 85, 031704.	2.1	7
36	Topological Ferroelectric Bistability in a Polarization-Modulated Orthogonal Smectic Liquid Crystal. <i>Journal of the American Chemical Society</i> , 2012, 134, 9681-9687.	13.7	33

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37	Structure of the B4 Liquid Crystal Phase near a Glass Surface. ChemPhysChem, 2012, 13, 155-159.	2.1	38
38	Chirality-Preserving Growth of Helical Filaments in the B4 Phase of Bent-Core Liquid Crystals. Journal of the American Chemical Society, 2011, 133, 12656-12663.	13.7	75
39	Effect of Concentration on the Photo-Orientation and Relaxation Dynamics of Self-Assembled Monolayers of Mixtures of an Azobenzene-Based Triethoxysilane with Octyltriethoxysilane. Langmuir, 2011, 27, 3336-3342.	3.5	12
40	Spontaneous Ferroelectric Order in a Bent-Core Smectic Liquid Crystal of Fluid Orthorhombic Layers. Science, 2011, 332, 72-77.	12.6	141
41	Design and synthesis of an achiral ferroelectric smectic liquid crystal. , 2011, , .		0
42	Dynamics of cis isomers in highly sensitive amino-azobenzene monolayers: The effect of slow relaxation on photo-induced anisotropy. Journal of Applied Physics, 2011, 109, 103521.	2.5	5
43	Orientation of a Helical Nanofilament (B4) Liquidâ€Crystal Phase: Topographic Control of Confinement, Shear Flow, and Temperature Gradients. Advanced Materials, 2011, 23, 1962-1967.	21.0	42
44	Effective conductivity due to continuous polarization reorientation in fluid ferroelectrics. Physical Review E, 2011, 84, 020701.	2.1	15
45	Triclinic Fluid Order. Physical Review Letters, 2010, 104, 067801.	7.8	23
46	Organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21311-21315.	7.1	70
47	Pretransitional Orientational Ordering of a Calamitic Liquid Crystal by Helical Nanofilaments of a Bent-Core Mesogen. Langmuir, 2010, 26, 15541-15545.	3.5	30
48	Chiral Isotropic Liquids from Achiral Molecules. Science, 2009, 325, 452-456.	12.6	250
49	On the Origin of the â€œGiantâ€ Electroclinic Effect in a â€œDe Vriesâ€ Type Ferroelectric Liquid Crystal Material for Chirality Sensing Applications. ChemPhysChem, 2009, 10, 890-892.	2.1	18
50	de Gennes' triclinic smectics â€“ not so far-fetched after all. Liquid Crystals, 2009, 36, 1309-1317.	2.2	16
51	Helical Nanofilament Phases. Science, 2009, 325, 456-460.	12.6	291
52	High-Sensitivity Aminoazobenzene Chemisorbed Monolayers for Photoalignment of Liquid Crystals. Langmuir, 2009, 25, 997-1003.	3.5	47
53	Bistable SmA liquidâ€crystal display driven by a twoâ€direction electric field. Journal of the Society for Information Display, 2008, 16, 675-681.	2.1	11
54	A bistable liquid-crystal display mode based on electrically driven smectic A layer reorientation. Applied Physics Letters, 2007, 91, .	3.3	19

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55	Chiral SmA* materials for display applications?. Journal of the Society for Information Display, 2007, 15, 585-588.	2.1	11
56	A General Method for Measurement of Enantiomeric Excess by Using Electrooptics in Ferroelectric Liquid Crystals. Angewandte Chemie - International Edition, 2007, 46, 1473-1475.	13.8	14
57	Reflection Symmetry Breaking in Achiral Rod-Shaped Smectic Liquid Crystals?. Journal of the American Chemical Society, 2006, 128, 5318-5319.	13.7	28
58	Director structures in achiral smectic C liquid crystal cells: field-induced twist domain nucleation. Liquid Crystals, 2006, 33, 25-32.	2.2	7
59	The peculiar optic, dielectric and X-ray diffraction properties of a fluorinated de Vries asymmetric diffuse cone-model ferroelectric liquid crystal. Liquid Crystals, 2006, 33, 17-23.	2.2	15
60	On the Nature of the B4 Banana Phase: % Crystal or Not a Crystal?. Crystal Growth and Design, 2005, 5, 2091-2099.	3.0	80
61	Self-assembled monolayers for liquid crystal alignment: simple preparation on glass using alkytrialkoxysilanes. Liquid Crystals, 2004, 31, 481-489.	2.2	56
62	Main-Chain Ferroelectric Liquid Crystal Polymers for Electronic Nonlinear Optics Applications 1. Ferroelectrics, 2004, 309, 77-82.	0.6	5
63	Polarization-Modulated Smectic Liquid Crystal Phases. Science, 2003, 301, 1204-1211.	12.6	296
64	Design of Smectic Liquid Crystal Phases Using Layer Interface Chirality. ACS Symposium Series, 2001, , 268-281.	0.5	1
65	A bow-phase mesogen showing strong, robust analog electro-optics. Journal of Materials Chemistry, 2001, 11, 2743-2747.	6.7	38
66	Supramolecular stereochemistry in ferroelectric liquid crystals. Journal of Physical Organic Chemistry, 2000, 13, 830-836.	1.9	14
67	A Ferroelectric Liquid Crystal Conglomerate Composed of Racemic Molecules. Science, 2000, 288, 2181-2184.	12.6	328
68	Polar electro-optic switching in droplets of an achiral nematic liquid crystal. Liquid Crystals, 1999, 26, 1555-1561.	2.2	19
69	<title>Ferroelectric smectic liquid crystals in the bent-core family: alignment for V-shaped analog switching</title>. , 1999, 3800, 21.		0
70	Antiferroelectric Liquid Crystals from Achiral Molecules And A Liquid Conglomerate. Materials Research Society Symposia Proceedings, 1999, 559, 3.	0.1	0
71	Spontaneous Formation of Macroscopic Chiral Domains in a Fluid Smectic Phase of Achiral Molecules. Science, 1997, 278, 1924-1927.	12.6	1,176
72	The organometallic "molecular tinkertoy"™ approach to planar grid polymers. Journal of Organometallic Chemistry, 1997, 548, 83-89.	1.8	21