

# Jagdish K Vij

## List of Publications by Year in descending order

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329  
papers

6,877  
citations

87888

38  
h-index

110387

64  
g-index

344  
all docs

344  
docs citations

344  
times ranked

2464  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Electrooptic, pyroelectric and dielectric spectroscopic studies of nematic and twist bend nematic phases of achiral hockey-shaped bent-core liquid crystal. <i>Journal of Molecular Liquids</i> , 2022, 351, 118632.                                     | 4.9 | 7         |
| 2  | The Beauty of Twist-Bend Nematic Phase: Fast Switching Domains, First Order Fréedericksz Transition and a Hierarchy of Structures. <i>Crystals</i> , 2021, 11, 621.  | 2.2 | 6         |
| 3  | Variety of subphase emerging sequences, the frustration of three main phases, $SmC^*$ , $SmC^*$ , and $SmC^*$ . <i>Physical Review E</i> , 2021, 104, 014705.  | 2.1 | 2         |
| 4  | Switching in a Biaxial Smectic A - like Phase. <i>Liquid Crystals Today</i> , 2021, 30, 20-25.   | 2.3 | 1         |
| 5  | Stereochemical Rules Govern the Soft Self-Assembly of Achiral Compounds: Understanding the Heliconical Liquid-Crystalline Phases of Bent-Core Mesogens. <i>Chemistry - A European Journal</i> , 2020, 26, 4714-4733.                                     | 3.3 | 23        |
| 6  | Dielectric study of a subphase stabilized in an exceptionally wide temperature range by a delicate balance of interlayer interactions and thermal fluctuations. <i>Physical Review E</i> , 2020, 102, 012703.  | 2.1 | 2         |
| 7  | Controlling the formation of heliconical smectic phases by molecular design of achiral bent-core molecules. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3316-3336.  | 5.5 | 9         |
| 8  | Design and electro-optic investigations of de Vries chiral smectic liquid crystals for exhibiting broad temperature ranges of $SmA^*$ and $SmC^*$ phases and fast electro-optic switching. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4859-4868. | 5.5 | 5         |
| 9  | Thermochromic luminescence in dual-dye-doped liquid crystal mixture induced by varying the energy transfer rate. <i>Dyes and Pigments</i> , 2020, 180, 108450.   | 3.7 | 5         |
| 10 | Observation of an anomalous $SmA-SmC-SmA$ phase sequence in a bent-core liquid crystal derived from 4-cyanoresorcinol. <i>Physical Review Research</i> , 2020, 2, .  | 3.6 | 6         |
| 11 | Unexpected electric-field-induced antiferroelectric liquid crystal phase in the $SmC^*$ phase: broad temperature range and the discrete flexoelectric effect. <i>Physical Review E</i> , 2019, 100, 010701.  | 2.1 | 2         |
| 12 | Molecular orientational distribution function of a chiral de Vries smectic liquid crystal from birefringence measurements. <i>Journal of Chemical Physics</i> , 2019, 150, 084901.   | 3.0 | 5         |
| 13 | Elucidation of the de Vries behavior in terms of the orientational order parameter, apparent tilt angle, and field-induced tilt angle for smectic liquid crystals by polarized infrared spectroscopy. <i>Physical Review E</i> , 2019, 100, 052704.      | 2.1 | 3         |
| 14 | A modified Langevin-Debye model for investigating the electro-optic behaviour of de Vries smectic liquid crystals. <i>Liquid Crystals</i> , 2019, 46, 1246-1251.   | 2.2 | 3         |
| 15 | Investigation of the heliconical smectic $SmC^*$ phase in achiral bent-core mesogens derived from 4-cyanoresorcinol. <i>Physical Review Materials</i> , 2019, 3, .   | 2.1 | 2         |
| 16 | The effect of chiral doping in achiral smectic liquid crystals on the de Vries characteristics: smectic layer thickness, electro-optics and birefringence. <i>Liquid Crystals</i> , 2018, 45, 513-521.   | 2.2 | 11        |
| 17 | Distortions in structures of the twist bend nematic phase of a bent-core liquid crystal by the electric field. <i>Physical Review E</i> , 2018, 98, 022704.  | 2.1 | 31        |
| 18 | Formation and development of nanometer-sized cybotactic clusters in bent-core nematic liquid crystalline compounds. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1288-1296.   | 2.8 | 13        |

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|----|---|------|-----------|
| 19 | Resonant x-ray scattering observation of transitional subphases during the electric-field-induced phase transition in a mixture of Se-containing chiral smectic liquid crystals. <i>Physical Review E</i> , 2018, 97, 062702.                       | 2.1  | 3         |
| 20 | de Vries liquid crystals based on a chiral 5-phenylpyrimidine benzoate core with a tri- and tetra-carbosilane backbone. <i>Physical Review Materials</i> , 2018, 2, .   | 2.4  | 14        |
| 21 | Phase behavior and characterization of heptamethyltrisiloxane-based de Vries smectic liquid crystal by electro-optics, x rays, and dielectric spectroscopy. <i>Physical Review E</i> , 2017, 95, 032701.  | 2.1  | 16        |
| 22 | Tunable Transfer of Molecules between Liquid Crystal Microdroplets and Control of Photonic Crystallinity in Isolated Microdroplets. <i>Advanced Optical Materials</i> , 2017, 5, 1700119.   | 7.3  | 8         |
| 23 | Molecular Transfer: Tunable Transfer of Molecules between Liquid Crystal Microdroplets and Control of Photonic Crystallinity in Isolated Microdroplets ( <i>Advanced Optical Materials</i> 12/2017). <i>Advanced Optical Materials</i> , 2017, 5, . | 7.3  | 0         |
| 24 | Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and ( <i>R,R</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50   | 2.1  | 13        |
| 25 | Observation of the de Vries behavior in SmA* phase of a liquid crystal using polarised Raman scattering and infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 147, 094903.  | 3.0  | 9         |
| 26 | Short bent-core molecules: X-ray, polarization, dielectricity, texture and electro-optics investigations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22946-22956.   | 2.8  | 9         |
| 27 | Characterization of the Submicrometer Hierarchy Levels in the Twist-Bend Nematic Phase with Nanometric Helices via Photopolymerization. Explanation for the Sign Reversal in the Polar Response. <i>Nano Letters</i> , 2017, 17, 7515-7519.         | 9.1  | 25        |
| 28 | A fast linear electro-optical effect in a non-chiral bent-core liquid crystal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12585-12590.  | 5.5  | 13        |
| 29 | Chiral smectic- $A$ and smectic- $C$ phases with de Vries characteristics. <i>Physical Review E</i> , 2017, 95, 062704.   | 2.1  | 16        |
| 30 | Definite existence of subphases with eight- and ten-layer unit cells as studied by complementary methods, electric-field-induced birefringence and microbeam resonant x-ray scattering. <i>Physical Review E</i> , 2017, 96, 012701.                | 2.1  | 11        |
| 31 | Development of ferroelectricity in the smectic phases of 4-cyanoresorcinol derived achiral bent-core liquid crystals with long terminal alkyl chains. <i>Physical Review Materials</i> , 2017, 1, .   | 2.4  | 14        |
| 32 | Anomalous temperature dependence of layer spacing of de Vries liquid crystals: Compensation model. <i>Applied Physics Letters</i> , 2016, 108, 243301.  | 3.3  | 14        |
| 33 | Fast linear electrooptic effect in non-chiral bent-core liquid crystal. <i>Ferroelectrics</i> , 2016, 495, 35-42.   | 0.6  | 2         |
| 34 | Effective long-range interlayer interactions and electric-field-induced subphases in ferroelectric liquid crystals. <i>Physical Review E</i> , 2016, 93, 042707.  | 2.1  | 8         |
| 35 | Transitional subphases near the electric-field-induced phase transition to the ferroelectric phase in Se-containing chiral smectic liquid crystals observed by resonant x-ray scattering. <i>Physical Review E</i> , 2016, 94, 052703.              | 2.1  | 7         |
| 36 | Spontaneous helix formation in non-chiral bent-core liquid crystals with fast linear electro-optic effect. <i>Nature Communications</i> , 2016, 7, 11369.   | 12.8 | 64        |

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|----|--|------|-----------|
| 37 | Flexoelectric polarization in cyanoresorcinol and oxadiazole bent core nematic liquid crystals. <i>Ferroelectrics</i> , 2016, 495, 28-34.  | 0.6  | 1         |
| 38 | Flexoelectric polarization studies in bent-core nematic liquid crystals. <i>Physical Review E</i> , 2015, 92, 022502.  | 2.1  | 20        |
| 39 | Flexoelectric Behavior of a Bimesogenic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 65-70.  | 0.9  | 10        |
| 40 | Hierarchy of Periodic Patterns in the Twist-bend Nematic Phase of Mesogenic Dimers. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 180-185.  | 0.9  | 19        |
| 41 | Dielectric Study of Liquid Crystals with Large Electroclinic Effect. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 610, 193-200.   | 0.9  | 1         |
| 42 | Hierarchical elasticity of bimesogenic liquid crystals with twist-bend nematic phase. <i>Applied Physics Letters</i> , 2015, 106, .  | 3.3  | 78        |
| 43 | Dielectric Study of Nematic LC Built with Bent-core Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 610, 63-67.   | 0.9  | 6         |
| 44 | Occurrence of Five Different Orthogonal Smectic Phases in a Bent-Core (BC) Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 610, 116-121.   | 0.9  | 3         |
| 45 | Effect of molecular-scale surface morphology on the surface melting of liquid crystals on self-assembled monolayers. <i>Applied Physics Letters</i> , 2014, 105, .   | 3.3  | 10        |
| 46 | 1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals with Cybotactic Nematic Phases. <i>ChemPhysChem</i> , 2014, 15, 1323-1335.  | 2.1  | 66        |
| 47 | Development of polar order and tilt in lamellar liquid crystalline phases of a bent-core mesogen. <i>Soft Matter</i> , 2014, 10, 5003-5016.  | 2.7  | 20        |
| 48 | Flexoelectric behavior of bimesogenic liquid crystals in the nematic phase – observation of a new self-assembly pattern at the twist-bend nematic and the nematic interface. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8179-8184. | 5.5  | 48        |
| 49 | Dielectric and electro-optic studies of a bimesogenic liquid crystal composed of bent-core and calamitic units. <i>Physical Review E</i> , 2014, 90, 032506.   | 2.1  | 11        |
| 50 | Biaxial order parameter in the homologous series of orthogonal bent-core smectic liquid crystals. <i>Physical Review E</i> , 2013, 88, 012504.   | 2.1  | 14        |
| 51 | Nematic twist-bend phase with nanoscale modulation of molecular orientation. <i>Nature Communications</i> , 2013, 4, 2635.   | 12.8 | 534       |
| 52 | Properties of the self-deforming Ntb phase in mesogenic dimers. <i>Proceedings of SPIE</i> , 2013, , .   | 0.8  | 13        |
| 53 | Effect of cybotactic clusters on the elastic and flexoelectric properties of bent-core liquid crystals belonging to the same homologous series. <i>Physical Review E</i> , 2013, 88, 032503.   | 2.1  | 31        |
| 54 | Gold nanorods embedded discotic nanoribbons. <i>Chemical Communications</i> , 2013, 49, 978-980.   | 4.1  | 20        |

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|----|---|------|-----------|
| 55 | Degeneracy lifting due to thermal fluctuations around the frustration point between antclinic antiferroelectric SmCA* and synclinic ferroelectric SmC*. Physical Review E, 2013, 87, 012502.            | 2.1  | 12        |
| 56 | Elastic properties of bimesogenic liquid crystals. Liquid Crystals, 2013, 40, 681-688.  | 2.2  | 64        |
| 57 | Superlattice structures observed in the extraordinary phase sequence and analyzed by the phenomenological Landau model and the partially molecular model. Physical Review E, 2013, 87, 062506.          | 2.1  | 12        |
| 58 | A Liquid Crystalline Phase with Uniform Tilt, Local Polar Order and Capability of Symmetry Breaking. Advanced Materials, 2013, 25, 2186-2191.   | 21.0 | 79        |
| 59 | Biaxial order and a rotation of the minor director in the nematic phase of an organo-siloxane tetrapode by the electric field. Journal of Chemical Physics, 2012, 136, 094513.                          | 3.0  | 11        |
| 60 | Physical Properties of SmAbPhase in an Achiral Bent-Core Smectic Liquid Crystal. Ferroelectrics, 2012, 431, 196-201.  | 0.6  | 4         |
| 61 | Properties of Non-Tilted Bent-Core Orthogonal Smectic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2012, 553, 140-146.   | 0.9  | 5         |
| 62 | Structure and Polymorphism of Biaxial Bent-Core Smectic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2012, 553, 133-139.   | 0.9  | 3         |
| 63 | Biaxial Order Parameter in an Achiral Bent-Core Smectic Liquid Crystal. Ferroelectrics, 2012, 431, 190-195.   | 0.6  | 1         |
| 64 | Chirality of an achiral bent-core nematic mesogen observed in planar and homeotropic cells under certain boundary conditions. Soft Matter, 2012, 8, 10479.  | 2.7  | 12        |
| 65 | Field-induced periodic chiral pattern in the Nx phase of achiral bimesogens. Applied Physics Letters, 2012, 101, .  | 3.3  | 81        |
| 66 | Nematic Phases in 1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals: Is There a Ferroelectric Switching?. Advanced Functional Materials, 2012, 22, 1671-1683.  | 14.9 | 108       |
| 67 | Development of polar order in a bent-core liquid crystal with a new sequence of two orthogonal smectic and an adjacent nematic phase. Journal of Materials Chemistry, 2011, 21, 18711.                  | 6.7  | 32        |
| 68 | Evidence of a polar cybotactic smectic A phase in a new fluorine substituted bent-core compound. Journal of Materials Chemistry, 2011, 21, 17098.   | 6.7  | 22        |
| 69 | Electric Field Induced Transformations and Dielectric Properties in Non-Tilted Phases of a Bent-Core Smectic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2011, 540, 82-87.                  | 0.9  | 3         |
| 70 | A study of a ferroelectric organosiloxane liquid crystal with a high spontaneous polarisation. Liquid Crystals, 2011, 38, 521-529.  | 2.2  | 0         |
| 71 | Microsecond linear optical response in the unusual nematic phase of achiral bimesogens. Applied Physics Letters, 2011, 99, .  | 3.3  | 142       |
| 72 | Discovery of a novel ferroelectric phase of five-layer periodicity in binary mixtures of chiral smectic liquid crystals exhibiting unusual reversed phase sequence. Liquid Crystals, 2011, 38, 663-668. | 2.2  | 28        |

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|----|---|-----|-----------|
| 73 | Physical ageing and the Johari-Goldstein relaxation in molecular glasses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 783-792.  | 3.1 | 26        |
| 74 | Short-range correlations seen in the nematic phase of bent-core liquid crystals by dielectric and electro-optic studies. <i>Physical Review E</i> , 2011, 84, 060701.   | 2.1 | 23        |
| 75 | Dielectric and Optical Study of Biaxial Bent-Core Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 540, 75-81.   | 0.9 | 6         |
| 76 | Sequence of Four Orthogonal Smectic Phases in an Achiral Bent-Core Liquid Crystal: Evidence for the SmA <sub>B</sub> ± Phase. <i>Physical Review Letters</i> , 2011, 107, 247801.   | 7.8 | 37        |
| 77 | Debye process and dielectric state of an alcohol in a nonpolar solvent. <i>Journal of Chemical Physics</i> , 2011, 134, 044525.   | 3.0 | 17        |
| 78 | Geoffrey Luckhurst elected to the Royal Irish Academy. <i>Liquid Crystals Today</i> , 2011, 20, 85-86.  | 2.3 | 0         |
| 79 | Effect of high hydrostatic pressure on the dielectric relaxation in a non-crystallizable monohydroxy alcohol in its supercooled liquid and glassy states. <i>Journal of Chemical Physics</i> , 2011, 135, 084507.           | 3.0 | 17        |
| 80 | Field-induced transformations in the biaxial order of non-tilted phases in a bent-core smectic liquid crystal. <i>Europhysics Letters</i> , 2010, 92, 26002.  | 2.0 | 34        |
| 81 | Development of polar order in liquid crystalline phases of a banana compound with a unique sequence of three orthogonal phases. <i>Chemical Communications</i> , 2010, 46, 3702.  | 4.1 | 59        |
| 82 | Electric field induced biaxiality and the electro-optic effect in a bent-core nematic liquid crystal. <i>Applied Physics Letters</i> , 2010, 96, .  | 3.3 | 55        |
| 83 | X-ray diffraction study of ferroelectric and antiferroelectric liquid crystal mixtures exhibiting de Vries SmA <sup>*</sup> —SmC <sup>*</sup> —transitions. <i>Physical Review E</i> , 2010, 81, 050701.                    | 2.1 | 7         |
| 84 | Study of the biaxiality in the nematic phase of liquid crystals in terms of orientational order parameters by infrared spectroscopy. <i>Liquid Crystals</i> , 2010, 37, 653-667.  | 2.2 | 27        |
| 85 | Antiferroelectric and ferroelectric orderings in frustrated chiral tilted smectics and a continuous change from anticlinic SmC A <sup>*</sup> to synclinic SmC <sup>*</sup> . <i>Europhysics Letters</i> , 2010, 90, 56005. | 2.0 | 12        |
| 86 | Spontaneous Periodic Deformations in Nonchiral Planar-Aligned Bimesogens with a Nematic-Nematic Transition and a Negative Elastic Constant. <i>Physical Review Letters</i> , 2010, 105, 167801.                             | 7.8 | 307       |
| 87 | Liquid crystal display modes in a nontilted bent-core biaxial smectic liquid crystal. <i>Applied Physics Letters</i> , 2010, 97, .  | 3.3 | 44        |
| 88 | Macroscopic biaxiality and electric-field-induced rotation of the minor director in the nematic phase of a bent-core liquid crystal. <i>Europhysics Letters</i> , 2010, 91, 66002.  | 2.0 | 21        |
| 89 | Sign reversal in the dielectric anisotropy as functions of temperature and frequency in the nematic phase of a bent-core mesogen. <i>Applied Physics Letters</i> , 2010, 97, .  | 3.3 | 17        |
| 90 | Orientational order of a ferroelectric liquid crystal with small layer contraction. <i>Physical Review E</i> , 2010, 82, 031702.  | 2.1 | 11        |

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|-----|---|-----|-----------|
| 91  | Molecular model of biaxial ordering in nematic liquid crystals composed of flat molecules with four mesogenic groups. <i>Physical Review E</i> , 2010, 81, 061702.  | 2.1 | 32        |
| 92  | Realization of Field Sequential Color in Simple Matrix Antiferroelectric Liquid Crystal Displays by Utilizing Fast Pretransitional Response. <i>Applied Physics Express</i> , 2009, 2, 071403.                                | 2.4 | 3         |
| 93  | Propagation of an electromagnetic wave in an absorbing anisotropic medium and infrared transmission of liquid crystals: Comparison with experiments. <i>Physical Review E</i> , 2009, 80, 021704.                             | 2.1 | 1         |
| 94  | Optical confirmation of biaxial nematic (Nb) phase in a bent-core mesogen. <i>Applied Physics Letters</i> , 2009, 95, 183304.   | 3.3 | 49        |
| 95  | Anomalous dependence of response time on the electric field in an electroclinic liquid crystal with large induced tilt and polarization. <i>Applied Physics Letters</i> , 2009, 94, .   | 3.3 | 5         |
| 96  | Degeneracy lifting near the frustration points due to long-range interlayer interaction forces and the resulting varieties of polar chiral tilted smectic phases. <i>Liquid Crystals</i> , 2009, 36, 1101-1118.               | 2.2 | 29        |
| 97  | The effect of confinement on the stability of field induced states and on supercooling in antiferro-ferroelectric phase transitions in chiral smectic liquid crystals. <i>Journal of Applied Physics</i> , 2009, 106, 073514. | 2.5 | 8         |
| 98  | Evolution of Subphases in a Prototype Binary Mixture System as Observed by Electric-Field-Induced Birefringence and Helical Pitch. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 511, 36/[1506]-49/[1519].            | 0.9 | 9         |
| 99  | Effects of Confinement and Electric Field on the Dielectric Behavior of Smectic- Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 512, 21/[1867]-31/[1877].   | 0.9 | 1         |
| 100 | Experimental study of de Vries properties in antiferroelectric smectic liquid crystals. <i>European Physical Journal E</i> , 2008, 27, 397-405.   | 1.6 | 17        |
| 101 | Conoscopy of chiral smectic liquid crystal cells. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 1820.  | 1.5 | 12        |
| 102 | Effect of cell surfaces on the stability of chiral smectic- $C$ phases. <i>Physical Review E</i> , 2008, 78, 021711.  | 2.1 | 20        |
| 103 | Exhibiting transitions to smectic- $A$ phases. <i>Physical Review E</i> , 2008, 77, 041707.   | 2.1 | 32        |
| 104 | Mechanism of field-induced unwinding of $Sm-C^*$ helix and bias field dependencies of dielectric permittivity and effective polarization. <i>Europhysics Letters</i> , 2008, 82, 26003.                                       | 2.0 | 10        |
| 105 | Solitary wave propagation in surface stabilized ferroelectric liquid crystal cells. <i>Applied Physics Letters</i> , 2008, 92, 083510.  | 3.3 | 3         |
| 106 | Experimental study of high-temperature smectic- $C$ phases. <i>Physical Review E</i> , 2008, 77, 051707.  | 2.1 | 10        |
| 107 | Electric-field-dependent dielectric response in the de Vries "type smectic-A" phase possessing local orientational order with nanoscale correlation length. <i>Physical Review E</i> , 2008, 78, 041705.                      | 2.1 | 10        |
| 108 | V-shaped electro-optic response observed in a chiral ferroelectric smectic liquid crystal. <i>Applied Physics Letters</i> , 2008, 93, 093507.   | 3.3 | 4         |



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|-----|--|-----|-----------|
| 109 | Antiferroelectric dielectric relaxation processes and the interlayer interaction in antiferroelectric liquid crystals. Applied Physics Letters, 2008, 93, 142903.  | 3.3 | 18        |
| 110 | Behaviour of Smectic Phases in Free Standing Film Geometry: Discontinuous Change in the Tilt Angle of Polar Smectic Phases at the Phase Transition Temperature. Ferroelectrics, 2008, 365, 95-102.<br>Critical phase transition between the smectic $C$ and the thresholdless antiferroelectricity. Physical Review E, 2008, 78, 041702. | 0.6 | 2         |
| 111 | Dynamic Mechanism of the Ferroelectric to Antiferroelectric Phase Transition in Chiral Smectic Liquid Crystals. Physical Review Letters, 2008, 101, 097801.  | 2.1 | 21        |
| 112 | The Structure and Properties of Antiferroelectric Liquid Crystals. Advances in Chemical Physics, 2007, , 271-316.  | 7.8 | 14        |
| 113 | Orientalional Effects in Ferroelectric and Antiferroelectric Liquid Crystals using Infrared Spectroscopy. Advances in Chemical Physics, 2007, , 203-269.   | 0.3 | 3         |
| 114 | Conformational distribution of a ferroelectric liquid crystal revealed using fingerprint vibrational spectroscopy and the density functional theory. Journal of Chemical Physics, 2007, 126, 224904.   | 0.3 | 10        |
| 115 | Dielectric relaxation and crystallization of nanophase separated 1-propanol-isoamylbromide mixture. Journal of Chemical Physics, 2007, 127, 094507.  | 3.0 | 10        |
| 116 | Modulated Hexatic-B* with giant electroclinic effect rather than anticlinic Hexatic-I A * A novel mechanism for stabilizing antiferroelectricity below Smectic-C A *. Europhysics Letters, 2007, 77, 36004.  | 3.0 | 13        |
| 117 | Experimental study for the conditions of analog switching in ferroelectric liquid crystal cells. Applied Physics Letters, 2007, 91, 052911.  | 2.0 | 16        |
| 118 | Solitary wave propagation in antiferroelectric liquid crystal cells and the quadrupolar term in the interlayer interaction. Physical Review E, 2007, 76, 011708.   | 3.3 | 10        |
| 119 | The Role of Spontaneous Polarization and the Thickness of Alignment Layers on the V-Shaped Switching in FLC Cells. Molecular Crystals and Liquid Crystals, 2007, 477, 223-231.   | 2.1 | 16        |
| 120 | Discontinuous change in the smectic layer thickness in ferroelectric liquid crystals. Physical Review E, 2007, 75, 042701.   | 0.9 | 1         |
| 121 | Molecular orientational properties of a high-tilt chiral smectic liquid crystal determined from its infrared dichroism. Physical Review E, 2007, 76, 051707.   | 2.1 | 3         |
| 122 | Sign reversals in the dielectric anisotropy as functions of temperature and frequency in SmA* phase. Applied Physics Letters, 2007, 91, .  | 3.3 | 3         |
| 123 | Comment on "Optical and Resonant X-Ray Diffraction Studies Confirm a SmCFI2* a SmC* Liquid Crystal Phase Sequence Reversal". Physical Review Letters, 2007, 98, 219801.  | 7.8 | 5         |
| 124 | Temperature-induced sign reversal of biaxiality observed by conoscopy in some ferroelectric SmC* liquid crystals. Physical Review E, 2007, 76, 011709.   | 2.1 | 12        |
| 125 | Interlayer interactions and the dependence of biaxiality of the chiral smectic-C* phase on electric field in the helical unwinding process. Physical Review E, 2007, 75, 051705.   | 2.1 | 10        |



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|-----|---|-----|-----------|
| 127 | Structure and Orientation of Molecules in Discotic Liquid Crystals Using Infrared Spectroscopy. <i>Advances in Chemical Physics</i> , 2007, , 341-486.  | 0.3 | 4         |
| 128 | The effect of ions on the permittivity and dielectric relaxation of an uncrystallizable heptanol. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 506208.  | 1.8 | 8         |
| 129 | The significance of polarizability in the analysis of liquid dielectric behaviour. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 234-241.   | 2.8 | 2         |
| 130 | Electric field-induced birefringence, optical rotatory power and conoscopic measurements of a chiral antiferroelectric smectic liquid crystal. <i>Liquid Crystals</i> , 2007, 34, 963-973.  | 2.2 | 12        |
| 131 | Structure-Dependent DC Conductivity and Relaxation Time in the Debye-Stokes-Einstein Equation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11201-11208.   | 2.6 | 17        |
| 132 | Advances in Microwave and Submillimeter-Wave Dielectric Spectroscopic Techniques and their Applications. <i>Advances in Chemical Physics</i> , 2007, , 775-837.   | 0.3 | 9         |
| 133 | Relaxations and nano-phase-separation in ultraviscous heptanol-alkyl halide mixture. <i>Journal of Chemical Physics</i> , 2007, 126, 034512.  | 3.0 | 26        |
| 134 | Theory of the intermediate tilted smectic phases and their helical rotation. <i>Physical Review E</i> , 2006, 74, 011705.   | 2.1 | 39        |
| 135 | Investigation of de Vries SmA* mesophases in low molecular weight organosiloxane compounds. <i>Journal of Materials Chemistry</i> , 2006, 16, 842-849.  | 6.7 | 30        |
| 136 | Dichroic Properties and the Molecular Tilt Angle of a Large-Tilt Angle Antiferroelectric Liquid Crystal Studied Using Polarized Infrared Spectroscopy. <i>Ferroelectrics</i> , 2006, 343, 167-175.  | 0.6 | 3         |
| 137 | Investigation into the orientation of the liquid-crystal mixture E7 in composite photonic crystals based on single-crystal silicon. <i>Physics of the Solid State</i> , 2006, 48, 384-391.  | 0.6 | 1         |
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