# Jagdish K Vij

List of Publications by Year
in descending order



| 329 | 6,877 | 87723 | 110170 |
|---|---|---|---|
| papers | citations | 38 h-index | 64 g-index |

| 344 | 344 | 344 | 2464 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nematic twist-bend phase with nanoscale modulation of molecular orientation. Nature Communications, 2013, 4, 2635. | 5.8 | 534 |
| 2 | Spontaneous Periodic Deformations in Nonchiral Planar-Aligned Bimesogens with a Nematic-Nematic Transition and a Negative Elastic Constant. Physical Review Letters, 2010, 105, 167801. | 2.9 | 307 |
| 3 | Thermotropic Biaxial Nematic Phase in Liquid Crystalline Organo-Siloxane Tetrapodes. Physical Review Letters, 2004, 93, 237801. | 2.9 | 194 |
| 4 | Microsecond linear optical response in the unusual nematic phase of achiral bimesogens. Applied Physics Letters, 2011, 99, . | 1.5 | 142 |
| 5 | The investigation of the relaxation processes in antiferroelectric liquid crystals by broad band dielectric and electro-optic spectroscopy. Liquid Crystals, 1998, 25, 241-252. | 0.9 | 123 |
| 6 | Nematic Phases in 1,2,4â€Oxadiazoleâ€Based Bentâ€Core Liquid Crystals: Is There a Ferroelectric Switching?. Advanced Functional Materials, 2012, 22, 1671-1683. | 7.8 | 108 |
| 7 | Fourier transform infrared study of poly (2-hydroxyethyl methacrylate) PHEMA. Colloid and Polymer Science, 1997, 275, 323-332. | 1.0 | 101 |
| 8 | Observation and investigation of the ferrielectric subphase with highqTparameter. Physical Review E, 1997, 55, 4345-4353. | 0.8 | 91 |
| 9 | Field-induced periodic chiral pattern in the Nx phase of achiral bimesogens. Applied Physics Letters, 2012, 101, . | 1.5 | 81 |
| 10 | Effects of induced steric hindrance on the dielectric behavior and H bonding in the supercooled liquid and vitreous alcohol. Journal of Chemical Physics, 2001, 114, 4634. | 1.2 | 79 |
| 11 | A Liquid Crystalline Phase with Uniform Tilt, Local Polar Order and Capability of Symmetry Breaking. Advanced Materials, 2013, 25, 2186-2191. | 11.1 | 79 |
| 12 | Hierarchical elasticity of bimesogenic liquid crystals with twist-bend nematic phase. Applied Physics Letters, 2015, 106, . | 1.5 | 78 |
| 13 | Far infrared spectroscopy of water at different temperatures: GHz to THz dielectric spectroscopy of water. Journal of Molecular Liquids, 2004, 112, 125-135. | 2.3 | 75 |
| 14 | The exponential dielectric relaxation dynamics in a secondary alcoholâ€™s supercooled liquid and glassy states. Journal of Chemical Physics, 2000, 112, 3262-3266. | 1.2 | 72 |
| 15 | The influence of surface structure on the discotic liquid crystalline alignment. an infrared spectroscopy study. Advanced Materials, 1995, 7, 919-922. | 11.1 | 69 |
| 16 | 1,2,4â€Oxadiazoleâ€Based Bentâ€Core Liquid Crystals with Cybotactic Nematic Phases. ChemPhysChem, 2014, 15, 1323-1335. | 1.0 | 66 |
| 17 | Elastic properties of bimesogenic liquid crystals. Liquid Crystals, 2013, 40, 681-688. | 0.9 | 64 |
| 18 | Spontaneous helix formation in non-chiral bent-core liquid crystals with fast linear electro-optic effect. Nature Communications, 2016, 7, 11369. | 5.8 | 64 |

| # | Article | IF | Citations |
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| 19 | The investigation of the relaxation processes in antiferroelectric liquid crystals by electro-optic spectroscopy. Applied Physics Letters, 1998, 72, 1667-1669. | 1.5 | 59 |
| 20 | Development of polar order in liquid crystalline phases of a banana compound with a unique sequence of three orthogonal phases. Chemical Communications, 2010, 46, 3702. | 2.2 | 59 |
| 21 | Localized relaxationâ€™s strength and its mimicry of glass-softening thermodynamics. Journal of Chemical Physics, 2002, 116, 5908-5909. | 1.2 | 58 |
| 22 | 1D photonic crystal fabricated by wet etching of silicon. Optical Materials, 2005, 27, 831-835. | 1.7 | 55 |
| 23 | Electric field induced biaxiality and the electro-optic effect in a bent-core nematic liquid crystal. Applied Physics Letters, 2010, 96, . | 1.5 | 55 |
| 24 | Infrared absorption study of hexapentyloxytriphenylene A discotic liquid crystal. Liquid Crystals, 1993, 14, 807-819. | 0.9 | 52 |
| 25 | Relaxation strength of localized motions in D-sorbitol and mimicry of glass-softening thermodynamics. Journal of Chemical Physics, 2003, 119, 435-442. | 1.2 | 52 |
| 26 | Dielectric response of surface stabilized ferroelectric liquid crystal cells. Physical Review E, 1994, 50, 4763-4772. | 0.8 | 51 |
| 27 | Optical confirmation of biaxial nematic (Nb) phase in a bent-core mesogen. Applied Physics Letters, 2009, 95, 183304. | 1.5 | 49 |
| 28 | Flexoelectric behavior of bimesogenic liquid crystals in the nematic phase â€“ observation of a new self-assembly pattern at the twist-bend nematic and the nematic interface. Journal of Materials Chemistry C, 2014, 2, 8179-8184. | 2.7 | 48 |
| 29 | Comparison of the characteristics of the chiral analog of the de Vries type of smectic-A*phase. Physical Review E, 2003, 67, 051709. | 0.8 | 47 |
| 30 | Discrete flexoelectric polarizations and biaxial subphases with periodicities other than three and four layers in chiral smectic liquid crystals frustrated between ferroelectricity and antiferroelectricity. Physical Review E, 2005, 72, 041705. | 0.8 | 47 |
| 31 | Dielectric and electro-optical studies of a ferroelectric copolysiloxane. Physical Review B, 1994, 50, 16346-16356. | 1.1 | 46 |
| 32 | Pyroelectric and electro-optical effects in the SmC* phase of a polysiloxane liquid crystal. Journal of Applied Physics, 1994, 75, 728-733. | 1.1 | 45 |
| 33 | Observation of a possible random ferroelectric liquid crystal phase. Journal of Materials Chemistry, 1999, 9, 2967-2969. | 6.7 | 44 |
| 34 | Two kinds of smectic-CÎ±*subphases in a liquid crystal and their relative stability dependent on the enantiomeric excess as elucidated by electric-field-induced birefringence experiment. Physical Review E, 2005, 71, 021711. | 0.8 | 44 |
| 35 | Liquid crystal display modes in a nontilted bent-core biaxial smectic liquid crystal. Applied Physics Letters, 2010, 97, . | 1.5 | 44 |
| 36 | Dielectric Response of Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1994, 33, 2648-2650. | 0.8 | 43 |

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| 37 | The orientational order parameters of a dendritic liquid crystal organo-siloxane tetrapode oligomer, determined using polarized infrared spectroscopy. Journal of Chemical Physics, 2004, 121, 5012-5021. | 1.2 | 42 |
| 38 | Hydration and plasticization effects in cellulose acetate: molecular motion and relaxation. Faraday Discussions, 1996, 103, 255. | 1.6 | 41 |
| 39 | Dynamics of Collective and Molecular Modes of a Ferroelectric Liquid Crystal in Confined Geometry Using Dielectric Spectroscopy. Physical Review Letters, 1997, 79, 249-252. | 2.9 | 41 |
| 40 | The pressure and temperature dependence of the static permittivity and density of heptanol isomers. Journal Physics D: Applied Physics, 1978, 11, 545-559. | 1.3 | 40 |
| 41 | Theory of the intermediate tilted smectic phases and their helical rotation. Physical Review E, 2006, 74, 011705. | 0.8 | 39 |
| 42 | Dielectric studies on charge hopping in melanin polymer. Journal of Molecular Structure, 2002, 606, 205-210. | 1.8 | 37 |
| 43 | Sequence of Four Orthogonal Smectic Phases in an Achiral Bent-Core Liquid Crystal: Evidence for theSmAPÎ±Phase. Physical Review Letters, 2011, 107, 247801. | 2.9 | 37 |
| 44 | The pressure and temperature dependence of the complex permittivity of heptanol isomers. Journal Physics D: Applied Physics, 1981, 14, 733-746. | 1.3 | 36 |
| 45 | Evidence for de Vries structure in a smectic-Aliquid crystal observed by polarized Raman scattering. Physical Review E, 2005, 71, 041705. | 0.8 | 36 |
| 46 | Localized relaxation in a glass and the minimum in its orientational polarization contribution. Journal of Chemical Physics, 2002, 117, 1714-1722. | 1.2 | 35 |
| 47 | Vertically etched silicon as 1D photonic crystal. Physica Status Solidi A, 2003, 197, 544-548. | 1.7 | 35 |
| 48 | Rotational bias of an antiferroelectric liquid crystal studied by polarized Fourier transform infrared spectroscopy. Physical Review E, 1999, 59, 551-555. | 0.8 | 34 |
| 49 | Field-induced transformations in the biaxial order of non-tilted phases in a bent-core smectic liquid crystal. Europhysics Letters, 2010, 92, 26002. | 0.7 | 34 |
| 50 | Study of the molecular tilt angle and the order parameter of a ferroelectric liquid crystal mixture using IR spectroscopy. Liquid Crystals, 1992, 12, 1005-1012. | 0.9 | 33 |
| 51 | Observation of an anchoring transition in a discotic liquid crystal. Europhysics Letters, 1998, 44, 198-204. | 0.7 | 33 |
| 52 | Kinetics of spontaneous change in the localized motions of D-sorbitol glass. Journal of Chemical Physics, 2006, 124, 074509. | 1.2 | 32 |
| 53 | Electro-optic and dielectric study of the de Vriesâ€"type smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>A</mml:mi><mml:mo>â^—</mml:mo></mml:msup></mml:mrow></mml:math>ph exhibiting transitions to smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mi>C</mml:mi><mml:mi>A</mml:mi><mml:mo>â^—</mml:mo></mml:msubsup> smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Ma. Physical Review E, 2008, 77, 041707. | 0.8 | 32 |
| 54 | Molecular model of biaxial ordering in nematic liquid crystals composed of flat molecules with four mesogenic groups. Physical Review E, 2010, 81, 061702. | 0.8 | 32 |

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| 55 | 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 |
| 56 | Wide-band dielectric spectroscopy of hydrated poly(hydroxyethyl methacrylate). Polymer, 1994, 35, 227-234. | 1.8 | 31 |
| 57 | Mechanism of the Major Orientation Polarization in Alcohols, and the Effects of Steric Hindrance-, and Dilution-Induced Decrease on H-Bonding. Journal of Physical Chemistry A, 2001, 105, 5061-5070. | 1.1 | 31 |
| 58 | Experimental demonstration, using polarized Raman and infrared spectroscopy, that both conventional and de Vries smectic-Aphases may exist in smectic liquid crystals with a first-orderAâ˜C*transition. Physical Review E, 2006, 74, 051706. | 0.8 | 31 |
| 59 | Effect of cybotactic clusters on the elastic and flexoelectric properties of bent-core liquid crystals belonging to the same homologous series. Physical Review E, 2013, 88, 032503. | 0.8 | 31 |
| 60 | Distortions in structures of the twist bend nematic phase of a bent-core liquid crystal by the electric field. Physical Review E, 2018, 98, 022704. | 0.8 | 31 |
| 61 | Millimeter and submillimeter laser spectroscopy of water. Chemical Physics Letters, 1989, 155, 153-156. | 1.2 | 30 |
| 62 | Order Parameter, Alignment and Anchoring Transition in Discotic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2003, 397, 231-244. | 0.4 | 30 |
| 63 | Investigation of de Vries SmA* mesophases in low molecular weight organosiloxane compounds. Journal of Materials Chemistry, 2006, 16, 842-849. | 6.7 | 30 |
| 64 | Orientational order and dynamics of the dendritic liquid crystal organo-siloxane tetrapodes determined using dielectric spectroscopy. Physical Review E, 2006, 73, 051702. | 0.8 | 30 |
| 65 | Effects of ions on the dielectric permittivity and relaxation rate and the decoupling of ionic diffusion from dielectric relaxation in supercooled liquid and glassy 1-propanol. Journal of Chemical Physics, 2002, 116, 4192-4201. | 1.2 | 29 |
| 66 | Degeneracy lifting near the frustration points due to long-range interlayer interaction forces and the resulting varieties of polar chiral tilted smectic phases. Liquid Crystals, 2009, 36, 1101-1118. | 0.9 | 29 |
| 67 | Molecular dynamics of methanol. Molecular Physics, 1983, 50, 935-947. | 0.8 | 28 |
| 68 | Infrared spectroscopic study of a phenyl benzoate side groupâ€”methacrylate main chain polymeric liquid crystal. Liquid Crystals, 1994, 16, 783-803. | 0.9 | 28 |
| 69 | Angular dependence of absorbance on the polarization angle of an IR beam in liquid crystals. Liquid Crystals, 1996, 21, 147-151. | 0.9 | 28 |
| 70 | Field-induced phase transitions in an antiferroelectric liquid crystal using the pyroelectric effect. Physical Review E, 2000, 62, 2279-2287. | 0.8 | 28 |
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| 72 | The dielectric polarizability of benzene as a function of temperature and pressure. Journal of Chemical Physics, 1976, 64, 2226-2228. | 1.2 | 27 |

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| 73 | Dielectric relaxation and libration spectroscopy of some aliphatic ketones and their molecular behavior. The Journal of Physical Chemistry, 1991, 95, 6142-6148. | 2.9 | 27 |
| 74 | An investigation of the field-induced ferrielectric subphases in antiferroelectric liquid crystals. Journal of Physics Condensed Matter, 1995, 7, L351-L360. | 0.7 | 27 |
| 75 | Orientational Order and Dynamics of Nematic Multipodes Based on Carbosilazane Cores Using Optical and Dielectric Spectroscopy. Macromolecules, 2002, 35, 8601-8608. | 2.2 | 27 |
| 76 | Study of the biaxiality in the nematic phase of liquid crystals in terms of orientational order parameters by infrared spectroscopy. Liquid Crystals, 2010, 37, 653-667. | 0.9 | 27 |
| 77 | Relaxations and nano-phase-separation in ultraviscous heptanol-alkyl halide mixture. Journal of Chemical Physics, 2007, 126, 034512. | 1.2 | 26 |
| 78 | Physical ageing and the Johariâ€“Goldstein relaxation in molecular glasses. Journal of Non-Crystalline Solids, 2011, 357, 783-792. | 1.5 | 26 |
| 79 | Brownian motion in a periodic potential: Application to dielectric relaxation. European Physical Journal B, 1985, 58, 187-198. | 0.6 | 25 |
| 80 | 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. Nano Letters, 2017, 17, 7515-7519. | 4.5 | 25 |
| 81 | Dielectric Study of the Intermolecular Association of Alcohols in Solutions of Benzene. Bulletin of the Chemical Society of Japan, 1976, 49, 1824-1828. | 2.0 | 24 |
| 82 | A graphical method for determining the parameters of a diffusion profile in silicon by infrared reflection spectroscopy. Solid-State Electronics, 1989, 32, 69-76. | 0.8 | 24 |
| 83 | Investigation of the TGBA* phase in a ferroelectric liquid crystal using dielectric spectroscopy. Journal of Physics Condensed Matter, 1995, 7, 7443-7452. | 0.7 | 24 |
| 84 | The concept of two stochastic processes in liquid water and analytical theory of the complex permittivity in the wavenumber range 0â€“1000 cmâ€“1. Physical Chemistry Chemical Physics, 2001, 3, 5173-5181. | 1.3 | 24 |
| 85 | Optical rotatory power of different phases of an antiferroelectric liquid crystal and implications for models of structure. Physical Review E, 2001, 63, 051708. | 0.8 | 24 |
| 86 | Johariâ€“Goldstein relaxation and crystallization of sorbitol to ordered and disordered phases. Journal of Chemical Physics, 2004, 120, 5455-5462. | 1.2 | 24 |
| 87 | Self-assembled uniaxial and biaxial multilayer structures in chiral smectic liquid crystals frustrated between ferro- and antiferroelectricity. Physical Review E, 2004, 69, 060701. | 0.8 | 24 |
| 88 | Investigations of nanoscale helical pitch in smectic-CÎ±*and smectic-C*phases of a chiral smectic liquid crystal using differential optical reflectivity measurements. Physical Review E, 2006, 74, 011701. | 0.8 | 23 |
| 89 | Short-range correlations seen in the nematic phase of bent-core liquid crystals by dielectric and electro-optic studies. Physical Review E, 2011, 84, 060701. | 0.8 | 23 |
| 90 | Stereochemical Rules Govern the Soft Selfâ€Assembly of Achiral Compounds: Understanding the Heliconical Liquidâ€Crystalline Phases of Bentâ€Core Mesogens. Chemistry - A European Journal, 2020, 26, 4714-4733. | 1.7 | 23 |

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| 91 | Nonlinear Budï¿½ model for dielectric relaxation: Comparison with new experimental data. European Physical Journal B, 1985, 61, 357-366. | 0.6 | 22 |
| 92 | 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 |
| 93 | A field-reversal method for measuring the parameters of a ferroelectric liquid crystal. Liquid Crystals, 2001, 28, 615-620. | 0.9 | 21 |
| 94 | Gradual phase transition between the smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>C</mml:mi><mml:mo>*</mml:mo></mml:msup></mml:math>and smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>C</mml:mi><mml:mi>A</mml:mi><mml:mo>*</mml:mo></mml:msubsup></mml:math>pha and the thresholdless antiferroelectricity. Physical Review E, 2008, 78, 041702. | 0.8 | 21 |
| 95 | Macroscopic biaxiality and electric-fieldâ€“induced rotation of the minor director in the nematic phase of a bent-core liquid crystal. Europhysics Letters, 2010, 91, 66002. | 0.7 | 21 |
| 96 | Molecular dynamics of iso-amyl bromide by dielectric spectroscopy, and the effects of a nonpolar solvent, 2-methylpentane, on the spectral features. Journal of Chemical Physics, 1999, 111, 10979-10985. | 1.2 | 20 |
| 97 | Effect of cell surfaces on the stability of chiral smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi></mml:math>phases. Physical Review E, 2008, 78, 021711. | 0.8 | 20 |
| 98 | Gold nanorods embedded discotic nanoribbons. Chemical Communications, 2013, 49, 978-980. | 2.2 | 20 |
| 99 | Development of polar order and tilt in lamellar liquid crystalline phases of a bent-core mesogen. Soft Matter, 2014, 10, 5003-5016. | 1.2 | 20 |
| 100 | Flexoelectric polarization studies in bent-core nematic liquid crystals. Physical Review E, 2015, 92, 022502. | 0.8 | 20 |
| 101 | Submillimetre laser and interferometric spectroscopy of the alkyl alcohols. Chemical Physics Letters, 1982, 92, 528-532. | 1.2 | 19 |
| 102 | Pressure, Temperature, and Frequency Dependence of the Dielectric Properties of Strontium Barium Niobate. Physica Status Solidi A, 1982, 74, 225-232. | 1.7 | 19 |
| 103 | Complex permittivity measurements of acetone in the frequency region 50â€“310 GHz. Molecular Physics, 1991, 72, 353-361. | 0.8 | 19 |
| 104 | Hierarchy of Periodic Patterns in the Twist-bend Nematic Phase of Mesogenic Dimers. Molecular Crystals and Liquid Crystals, 2015, 611, 180-185. | 0.4 | 19 |
| 105 | Discontinuous change in the smectic layer thickness in ferrielectric liquid crystals. Physical Review E, 2007, 75, 042701. | 0.8 | 18 |
| 106 | Antiferroelectric dielectric relaxation processes and the interlayer interaction in antiferroelectric liquid crystals. Applied Physics Letters, 2008, 93, 142903. | 1.5 | 18 |
| 107 | Some new FIR laser lines of optically pumped<sup>12</sup>CH<inf>3</inf><sup>16</sup>OH,<sup>12</sup>CH<inf>3< and<sup>12</sup>CH<inf>3</inf>I,<sup>12</sup>CH<inf>3</inf>Br,<sup>12</sup spectroscopy of water and acetonitrile. IEEE Journal of Quantum Electronics, 1986, 22, 1123-1130. | 1.0 | 17 |
| 108 | Polarization and dielectric properties of an antiferroelectric liquid crystal. Liquid Crystals, 1997, 23, 77-86. | 0.9 | 17 |

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| 109 | A comparison of the far-infrared and low-frequency Raman spectra of glass-forming liquids. Journal of Molecular Structure, 1999, 479, 111-122. | 1.8 | 17 |
| 110 | Ferrielectric liquid crystal subphase studied by polarized Fourier-transform infrared spectroscopy. Physical Review E, 2000, 62, 2269-2278. | 0.8 | 17 |
| 111 | Dielectric and optical rotatory power investigations of an antiferroelectric liquid crystal 12OF1M7 in a homeotropic cell: implications for models of the structure of ferrielectric phases. Liquid Crystals, 2001, 28, 1699-1704. | 0.9 | 17 |
| 112 | Structure-Dependent DC Conductivity and Relaxation Time in the Debyeâ^'Stokesâ^'Einstein Equation. Journal of Physical Chemistry B, 2007, 111, 11201-11208. | 1.2 | 17 |
| 113 | Experimental study of de Vries properties in antiferroelectric smectic liquid crystals. European Physical Journal E, 2008, 27, 397-405. | 0.7 | 17 |
| 114 | Sign reversal in the dielectric anisotropy as functions of temperature and frequency in the nematic phase of a bent-core mesogen. Applied Physics Letters, 2010, 97, . | 1.5 | 17 |
| 115 | Debye process and dielectric state of an alcohol in a nonpolar solvent. Journal of Chemical Physics, 2011, 134, 044525. | 1.2 | 17 |
| 116 | Effect of high hydrostatic pressure on the dielectric relaxation in a non-crystallizable monohydroxy alcohol in its supercooled liquid and glassy states. Journal of Chemical Physics, 2011, 135, 084507. | 1.2 | 17 |
| 117 | Inertia-corrected budÃ³ treatment of dielectric relaxation in polar molecules: Application to the fir spectrum of acetonttrile and hexanone-2. Chemical Physics Letters, 1986, 129, 375-381. | 1.2 | 16 |
| 118 | The dynamics of liquid water: Simulation and submillimeter spectroscopy. Journal of Molecular Liquids, 1987, 34, 285-306. | 2.3 | 16 |
| 119 | Modulated Hexatic-B* with giant electroclinic effect rather than anticlinic Hexatic-I A * â€"A novel mechanism for stabilizing antiferroelectricity below Smectic-C A *. Europhysics Letters, 2007, 77, 36004. | 0.7 | 16 |
| 120 | Solitary wave propagation in antiferroelectric liquid crystal cells and the quadrupolar term in the interlayer interaction. Physical Review E, 2007, 76, 011708. | 0.8 | 16 |
| 121 | Phase behavior and characterization of heptamethyltrisiloxane-based de Vries smectic liquid crystal by electro-optics, x rays, and dielectric spectroscopy. Physical Review E, 2017, 95, 032701. | 0.8 | 16 |
| 122 | Chiral smectic- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math> and smectic- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>C</mml:mi></mml:math> phases with de Vries characteristics. Physical Review E, 2017, 95, 062704. | 0.8 | 16 |
| 123 | Dielectric Relaxation and Molecular Structure. I. Dielectric Relaxation in Substituted Anilines. Bulletin of the Chemical Society of Japan, 1970, 43, 2307-2312. | 2.0 | 15 |
| 124 | Dielectric spectra of supercooled halogenobenzeneâ€decalin solutions: A single particle site model for relaxation and resonant behaviors. Journal of Chemical Physics, 1983, 79, 4624-4628. | 1.2 | 15 |
| 125 | Pyroelectric properties of ferroelectric liquid crystal cells with chevron, bookshelf, and helical structures. Journal of Applied Physics, 1995, 77, 1201-1206. | 1.1 | 15 |
| 126 | Observation of an SmCÎ±* phase in an antiferroelectric liquid crystal using pyroelectrics and dielectrics. Journal of Materials Chemistry, 1999, 9, 1383-1385. | 6.7 | 15 |

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| 128 | Optical rotatory power, biaxiality, and models of chiral tilted smectic phases. Physical Review E, 2003, 68, 021702. | 0.8 | 14 |
| 129 | Propagation of an electromagnetic wave in an absorbing anisotropic medium and infrared transmission spectroscopy of liquid crystals. Journal of Chemical Physics, 2005, 122, 174901. | 1.2 | 14 |
| 130 | Dielectric spectroscopy of the twist grain boundary phase and smecticâ€like behaviour in the Isotropic Phase. Liquid Crystals, 2005, 32, 1045-1051. | 0.9 | 14 |
| 131 | Orientation polarization from faster motions in the ultraviscous and glassy diethyl phthalate and its entropy. Journal of Chemical Physics, 2006, 124, 044513. | 1.2 | 14 |
| 132 | Dynamic Mechanism of the Ferroelectric to Antiferroelectric Phase Transition in Chiral Smectic Liquid Crystals. Physical Review Letters, 2008, 101, 097801. | 2.9 | 14 |
| 133 | Biaxial order parameter in the homologous series of orthogonal bent-core smectic liquid crystals. Physical Review E, 2013, 88, 012504. | 0.8 | 14 |
| 134 | Electrical and electro-optical parameters of 4Ê¹-octyl-4-cyanobiphenyl nematic liquid crystal dispersed with gold and silver nanoparticles. Liquid Crystals, 0, , 1-11. | 0.9 | 14 |
| 135 | Anomalous temperature dependence of layer spacing of de Vries liquid crystals: Compensation model. Applied Physics Letters, 2016, 108, 243301. | 1.5 | 14 |
| 136 | Development of ferroelectricity in the smectic phases of 4-cyanoresorcinol derived achiral bent-core liquid crystals with long terminal alkyl chains. Physical Review Materials, 2017, 1, . | 0.9 | 14 |
| 137 | de Vries liquid crystals based on a chiral 5-phenylpyrimidine benzoate core with a tri- and tetra-carbosilane backbone. Physical Review Materials, 2018, 2, . | 0.9 | 14 |
| 138 | Dielectric anomalies in barium strontium niobate. Ferroelectrics, 1981, 38, 865-868. | 0.3 | 13 |
| 139 | On the V-shaped switching in antiferroelectric liquid crystals. Ferroelectrics, 2000, 246, 35-42. | 0.3 | 13 |
| 140 | Dielectric relaxation and crystallization of nanophase separated 1-propanol-isoamylbromide mixture. Journal of Chemical Physics, 2007, 127, 094507. | 1.2 | 13 |
| 141 | Properties of the self-deforming Ntb phase in mesogenic dimers. Proceedings of SPIE, 2013, , . | 0.8 | 13 |
| 142 | The N<sub>TB</sub> phase in an achiral asymmetrical bent-core liquid crystal terminated with symmetric alkyl chains. Liquid Crystals, 0, , 1-10. | 0.9 | 13 |
| 143 | Design and investigation of de Vries liquid crystals based on 5-phenyl-pyrimidine and ( R,R) Tj ETQq1 1 0.784314 rgBT /Overloc | 0.8 | 13 |
| 144 | A fast linear electro-optical effect in a non-chiral bent-core liquid crystal. Journal of Materials Chemistry C, 2017, 5, 12585-12590. | 2.7 | 13 |

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| 146 | Dielectric Relaxation and Molecular Structure. III. Dielectric Relaxation Study of Some Anilines in Benzene Solutions at Different Temperatures. Bulletin of the Chemical Society of Japan, 1973, 46, 17-20. | 2.0 | 12 |
| 147 | Submillimetre wave spectroscopy of 4-n-alkyl-4â€²-cyano biphenyl liquid crystals. Liquid Crystals, 1989, 4, 529-542. | 0.9 | 12 |
| 148 | High-frequency dielectric behavior of a ferroelectric liquid crystal near the smectic-C*â€“smectic-Aphase transition. Physical Review A, 1992, 46, 4852-4858. | 1.0 | 12 |
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