

Цитирания на научните трудове
на гл. асист. Харитюн Маркар Нарадикян
б р о й и з в е с т н и ц и т и р а н и я : 74

Брой точки по Табл.3, показател Д11: 74x2 =148т.

B4

- 1.** H Naradikian, M Petrov, B Katranchev, T Milenov and S Tinchev, “Surface characterization and orientation interaction between diamond-like carbon layer structure and dimeric liquid crystals”, J. Phys.: Conf. Ser., 780 (2017) 012010, SJR =0.303, **10 т.**
- 2.** M Petrov, PM Rafailov, H Naradikian, B Katranchev, ND Todorov, Graphene-induced bi-tilted two-component smectic CG phase with bulk ferroelectricity in hydrogen-bonded dimer liquid crystals, Journal of Molecular Liquids, 272, 97-105,(2018).IF=4.5,**Q1=25т.**
- 3.** O Ivanov, M Petrov, H Naradikian, JL Perez-Diaz,” Phase transition detection by surface photo charge effect in liquid crystals”, Phase Transitions 91 (5), 449-460,(2018). I.F. =1,060, **Q3 =15 т.**
- 4.** M. Petrov, B. Katranchev and H. Naradikian, ‘Surface anchoring breaking in smectic C liquid crystals’, Journal of Optoelectronics and Advanced Materials, 9, 442-445, (2007). I.F. =1.140, **Q2 =20 т.**
- 5.** M. Petrov, B. Katranchev, H. Naradikian, T. Angelov, K. Panajotov and A. Zheltikov, ‘Electrically tunable chiral nematic liquid crystal photonic crystal fibers’, Journal of Optoelectronics and Advanced Materials, 9, 446-448, (2007).
I.F. =1.140, **Q2 =20 т.**
5.1: A. Corella-Madueño, A. Castellanos-Moreno, S. Gutiérrez-López, R. A. Rosas, and J. A. Reyes,” Threshold field for a nematic liquid crystal confined between two coaxial cylinders”,Phys. Rev. E 78, 022701 – Published 1 August 2008,
DOI:<https://doi.org/10.1103/PhysRevE.78.022701>
- 6.** B. Katranchev, H. Naradikian and M. Petrov, ‘The role of hydrogen bonding for initiation of chirality, dendrites and physical gel in nematic with short range smectic C order’, Journal of Optoelectronics and Advanced Materials, 7, 273-276, (2005). I.F. =1.140, **Q2 =20 т.**
6.1: A. Sparavigna, A. Mello & B. Montrucchio, “Texture transitions in the liquid crystalline alkyloxybenzoic acid 6OBAC”, Phase Transitions, 79:4-5, 293-303,
DOI: 10.1080/01411590600748132
6.2: Mustafa Okumuş & Şükrü Özgan (2014) Thermal and mesomorphic properties of ternary mixtures of some hydrogen-bonded liquid crystals, Liquid Crystals, 41:9, 1293-1302, DOI: 10.1080/02678292.2014.919669

6.3: Fengjin Chen, Jinbao Guo, Zhijian Qua and Jie Wei," Novel photo-polymerizable chiral hydrogen-bonded self-assembled complexes: Preparation, characterization and the utilization as a thermal switching reflective color film", Journal of Materials Chemistry 21(24):8574-8582 · June 2011 (2011), DOI: 10.1039/C0JM03810E

6.4: Mustafa Okumuş," Thermal characterisation of binary mixture of some supramolecular liquid crystals", J Therm Anal Calorim ,120: 1603. (2015) <https://doi.org/10.1007/s10973-015-4488-1>

6.5: A. Sparavigna, A. Mello & B. Montrucchio (2007) Texture transitions in binary mixtures of 6OBAC with compounds of its homologous series, Phase Transitions, 80:3, 191-201, DOI: 10.1080/01411590601007603

6.6: Maher A. Qaddoura and Kevin D. Belfield," Probing the Texture of the Calamitic Liquid Crystalline Dimer of 4-(4-Pentenoxy)benzoic Acid", Materials, 3(2), 827-840; (2010), <https://doi.org/10.3390/ma3020827>

6.7: Chen, F., Guo, J., Jin, O. et al," A TEMPERATURE AND pH DOUBLE SENSITIVE CHOLESTERIC POLYMER FILM FROM A PHOTOPOLYMERIZABLE CHIRAL HYDROGEN-BONDED ASSEMBLY", Chin J Polym Sci, Vol. 31, No. 4, 630–640, (2013), <https://doi.org/10.1007/s10118-013-1244-5>

6.8: Mustafa Okumuş, Şükrü Özgan, İhsan Kırıka, Süleyman Kerlic," Thermal and optical characterization of liquid crystal 4'-hexyl-4-biphenylcarbonitrile/4-hexylbenzoic acid mixtures" Journal of Molecular Structure, Volume 1120, Pages 150-155, (2016) <https://doi.org/10.1016/j.molstruc.2016.05.036>

6.9: Okumuş, M., Özgan, S. & Yılmaz, S.," Thermal and Optical Properties of Some Hydrogen-Bonded Liquid Crystal Mixtures", Braz J Phys, 44:326 (2014). <https://doi.org/10.1007/s13538-014-0217-7>

6.10: M. Muni Prasad, M.L.N.Madhu Mohan, PV Chalapathi, A.V.N. Ashok Kumar, D.M. Potukuchi, "Influence of spacer and flexible chain on polymorphism in complementary hydrogen bonded liquid crystal dimers, SA:nOBAs", Journal of Molecular Liquids, Volume 207, Pages 294-308, (2015), <https://doi.org/10.1016/j.molliq.2015.03.025>

6.11: T. MahalingamT. VenkatachalamR. JayaprakasamV. N. Vijayakumar, "Optical, Thermal Studies on Binary and Ternary Hydrogen-Bonded Liquid Crystal Complexes", Brazilian Journal of Physics, Volume 46, Issue 3, pp 273–281, June 2016, <https://doi.org/10.1007/s13538-016-0415-6>

6.12: Mustafa Okumuş , " Synthesis and characterization of hydrogen bonded liquid crystal complexes by 4-octyloxy benzoic acid and some dicarboxylic acids", Journal of

Molecular Liquids, Volume 266, Pages 529-534, (2018),

<https://doi.org/10.1016/j.molliq.2018.06.111>

6.13: N. V. Kalinin, A. V. Emelyanenko, L. A. Nosikova, Z. A. Kudryashova, and Jui-Hsiang Liu, "Recombination of dimers as a mechanism for the formation of several nematic phases", Phys. Rev. E 87, 062502 – Published 10 June 2013,

<https://doi.org/10.1103/PhysRevE.87.062502>

6.14: A. V. N. Ashok Kumar, M. Muniprasad, A. V. S. N. Krishna Murthy, P. V. Chalapathi & D. M. Potukuchi, "Relaxation behavior of supra-molecular hydrogen-bonded liquid crystal phase structures: SA:11OBA", Molecular Crystals and Liquid Crystals, 624:1, 28-43, (2016) ,

DOI: 10.1080/15421406.2015.1038884

6.15: S. Sundaram, T. Vasanthi, P. Subhasri, T. R. Rajasekaran, K. Baskar, R. Jayaprakasam, T. S. Senthil & V. N. Vijayakumar,"Thermal and optical studies on induced smectic phases of inter molecular hydrogen bonded liquid crystals between decyloxy benzoic acid and citric acid", Molecular Crystals and Liquid Crystals, 648:1, (2017) , 148-161, DOI: 10.1080/15421406.2017.1302051

6.16: Thamilarasan Ranjeeth Kumar, Sankaran Sundaram, Thangaiyan Chitravel, Ramasamy Jayaprakasam, Vellalapalayam Nallagounder Vijayakumar, "Design, Synthesis and Characterization of Hydrogen Bonded Binary Liquid Crystal Complex from 4-Methoxycinnamic Acid and 4-Hexyloxybenzoic Acid (4MCA:6OBA)", Zeitschrift für Physikalische Chemie, Volume 231, Issue 11-12, Pages 1875–1890, (2017) ISSN (Online) 2196-7156, ISSN (Print) 0942-9352,

DOI: <https://doi.org/10.1515/zpch-2016-0955>.

6.17: S. SundaramP. SubhasriT. R. RajasekaranR. JayaprakasamT. S. SenthilV. N. Vijayakumar," Induced Smectic X Phase Through Intermolecular Hydrogen-Bonded Liquid Crystals Formed Between Citric Acid and p-n-(Octyloxy)Benzoic Acid" Brazilian Journal of Physics, Volume 47, Issue 4, pp 382–392, (2017),

<https://doi.org/10.1007/s13538-017-0507-y>

6.18: T Mahalingam, T Venkatachalam, R Jayaprakasam, V N Vijayakumar, "Phase Behaviour Studies of Intermolecular Hydrogen Bonded Binary Liquid Crystal Complex", International Journal of Chem Tech Research, Vol.8, No.8, pp 325-332, (2015), ISSN: 0974-4290

6.19: Yuki Arakawa, YukitoSasaki, HidetoTsiji," Supramolecular hydrogen-bonded liquid crystals based on 4-n-alkylthiobenzoic acids and 4,4'-bipyridine: Their mesomorphic behavior with comparative study including alkyl and alkoxy counterparts",

Journal of Molecular Liquids, Volume 280, Pages 153-159, (15 April 2019)
<https://doi.org/10.1016/j.molliq.2019.01.119>

6.20: M. Okumus, "Thermal properties of liquid crystal hexylbenzoic acid/octyloxybenzoic acid mixture" AIP Conference Proceedings 1653, 020080 (2015);
<https://doi.org/10.1063/1.4914271>

6.21: S. Sundaram, P. Subhasri, T. Vasanthi, T. S. Senthil, R. Jayaprakasam & V. N. Vijayakumar , "Experimental investigation on the effect of mesogenic ratio in hydrogen-bonded liquid crystal complexes", Journal of Dispersion Science and Technology, 38:12, 1811-1816, (2017) , DOI: 10.1080/01932691.2017.1283514

6.22: Mustafa Okumuş, "Investigation of thermal and optical properties of some quartet mixed hydrogen-bonded liquid crystals", International Journal of Modern Physics B, Vol. 31, No. 29, 1750224 (2017),
<https://doi.org/10.1142/S0217979217502241>

6.23: Subhasri, P., Vasanthi, T., Vijayakumar, V.N. et al., " Investigation on Induced Non-Tilted Smectic A* and Thermochromic Effect in Tilted Smectic C* Phase of Linear Double Hydrogen Bonded Ferroelectric Liquid Crystals", J. Korean Phys. Soc., Volume 74, Issue 4, pp 368–373, (2019)

<https://doi.org/10.3938/jkps.74.368>

6.24: Mustafa Okumuş," Bazı Üçlü Karıştırılmış Hidrojen Bağlı Sıvı Kristallerin Termal özelliklerine 4-oktiloksi-4'-siyanobifenil (8OCB) mezojeninin etkisi", Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi, Volume 17 , Issue 1, Pages 101 – 108, Year 2017, e-ISSN 2149-3367 |

7. Diankov G., Naradikian H., Angelov T., "Polimer stabilized liquid crystal indicator used in thermometry," Journal of Materials Science: Materials in Electronics, 14, 831-832, (2003). <https://doi.org/10.1023/A:1026190228870>, I.F. =1.971, **Q2= 20 T.**

7.1: Timothy B. Roth, Ann M. Anderson," The Effects of Film Thickness, Light Polarization, and Light Intensity on the Light Transmission Characteristics of Thermochromic Liquid Crystals", J. Heat Transfer., 129(3): 372-378, (2007),
<https://doi.org/10.1115/1.2430724>

7.2: Roth, Timothy B., and Anderson, Ann M. "Light Transmission Characteristics of Thermochromic Liquid Crystals." Proceedings of the ASME 2005 International Mechanical Engineering Congress and Exposition. Heat Transfer, Part A. Orlando, Florida, USA. November 5–11, pp. 547-553. ASME (2005).
<https://doi.org/10.1115/IMECE2005-81812>

7.3: SHIKHA KAPILA and K. K. RAINA, "THERMOCHROMIC BEHAVIOR OF A NOVEL NEMATIC LIQUID CRYSTAL MIXTURE: EFFECTS OF CHIRAL

DOPING”, International Journal of Modern Physics B, Vol. 25, No. 18, pp. 2419-2426 (2011),
<https://doi.org/10.1142/S0217979211101600>

7.4: Pasquerella, Dean A., and Anderson, Ann M. "A Comparison of Chiral Nematic and Cholesteric Thermochromic Liquid Crystals for Use in a Light Transmission Based Temperature Sensing System." Proceedings of the ASME 2007 International Mechanical Engineering Congress and Exposition. Volume 8: Heat Transfer, Fluid Flows, and Thermal Systems, Parts A and B. Seattle, Washington, USA. November 11–15, 2007. pp. 599-607. ASME. <https://doi.org/10.1115/IMECE2007-41855>

8. J. P. Marcerou, M. P. Petrov, H. M. Naradikian, H. T. Nguyen, “Dendrite like texture growth in the nematic liquid crystal phase of 4-n-heptyl and 4-n-octyl-oxibenzoic acids aligned by a polyimide coating”, Liquid Crystals, 31, No.3, 311-316, (2004).
<https://doi.org/10.1080/02678290410001648624>, I.F. =1.959, **Q2 =20 Т.**

8.1: Matthew J. Abdy, Andrew Murdoch †, Alfonso Martínez-Felipe †, ”New insights into the role of hydrogen bonding on the liquid crystal behaviour of 4-alkoxybenzoic acids: a detailed IR spectroscopy study” Liquid Crystals, 43:13-15, 2191-2207, (2016),
<https://doi.org/10.1080/02678292.2016.1212119>

8.2: Yuki Arakawa, YukitoSasaki, HidetoTsuji,” Supramolecular hydrogen-bonded liquid crystals based on 4-n-alkylthiobenzoic acids and 4,4'-bipyridine: Their mesomorphic behavior with comparative study including alkyl and alkoxy counterparts”, Journal of Molecular Liquids, Volume 280, Pages 153-159, (15 April 2019)
<https://doi.org/10.1016/j.molliq.2019.01.119>

9. H. Naradikian, B.Katranchev, E. Keskinova, J.P.Marcerou and M.P. Petrov, ‘Thermal and elecroconvective dendrites in the nematic phase with short range smectic order of 4,n-heptyl and 4,n-octyloxybenzoic acids’, Bul. J. Phys., 31, 118-129 (2004). ISSN: 1310-0157, SJR: 0.161, **10 Т.**

10. H. Naradikian, B. Katranchev, T. Angelov, R. Ugrinov, ‘Optical properties in polymer stabilized liquid crystal indicator used in the thermometry’, Bul. J. Phys., 31, 130-134 (2004).

ISSN: 1310-0157, SJR: 0.161, **10 Т.**

Г7

1. L. D. Pramatarova, G. M. Minchev, H. Naradikian, L. M. Trendafilov, “GaAs and GaSb treatment for MBE,” Materials Science Forum, 69, 189-200, (1991).
<https://doi.org/10.4028/www.scientific.net/MSF.69.189>, S.J.R. =0.260, **Q2=20 Т.**

2. G. Minchev, M. Eddrief, L. M. Trendafilov, H. M. Naradikian, K. L. Trendafilov, “Investigation of Se molecular beams used for MBE,” Vacuum, 47, №2, 157-165, (1996)

DOI: 10.1016/0042-207X(95)00187-5, I.F. = 1.768, **Q2= 20 Т.**

2.1: A. N. Zavilopulo*, O. B. Shpenik, and A. M. Mylymko, "Examination of a Molecular Se Beam by Mass Spectrometry with Electron Ionization", Zhurnal Tekhnicheskoi Fiziki, Vol. 87, No. 3, pp. 335–340, (2017), ISSN 1063-7842, DOI: 10.1134/S106378421703029X

2.2: Allen J. Hall1, Damon Hebert, Amish B. Shah, Martin Bettge, and Angus A. Rockett, "Nanostructured light-absorbing crystalline CuIn(1-x)GaxSe2 thin films grown through high flux, low energy ion irradiation", Journal of Applied Physics 114, 153505 (2013); <https://doi.org/10.1063/1.4823987>

3. B. Katranchev, H. Naradikian, E. Keskinova, M. P. Petrov and J. P. Marcerou, 'The elektroconvective dendrites in nematics with short range smectic order liquid crystal – 4,n-alkyloxybezoic acids', Liq. Cryst. (UK), 31, No. 12, 1663–1676, (2004). I.F. =1.959, **Q2= 20 T.**

3.1: N. Éber, P. Salamon & Á. Buka "Electrically induced patterns in nematics and how to avoid them", Liquid Crystals Reviews, 4:2, 101-134, (2016) DOI: 10.1080/21680396.2016.1244020

3.2: M. Muni Prasad, M.L.N.Madhu Mohan, PV Chalapathi, A.V.N. Ashok Kumar, D.M. Potukuchi, "Influence of spacer and flexible chain on polymorphism in complementary hydrogen bonded liquid crystal dimers, SA:nOBAs", Journal of Molecular Liquids, Volume 207, Pages 294-308, July 2015, <https://doi.org/10.1016/j.molliq.2015.03.025>

3.3: S. Sundaram, T. Vasanthi, P. Subhasri, T. R. Rajasekaran, K. Baskar, R. Jayaprakasam, T. S. Senthil & V. N. Vijayakumar (2017) Thermal and optical studies on induced smectic phases of inter molecular hydrogen bonded liquid crystals between decyloxy benzoic acid and citric acid, Molecular Crystals and Liquid Crystals, 648:1, 148-161, DOI: 10.1080/15421406.2017.1302051

3.4: D. DIMOVA-MALINOVSKA*, O. ANGELOV, M. SENDOVA-VASSILEVA, V. MIKLIA, "Correlation between the UV-reflectance spectra and thestructure of poly-Si films obtained by Aluminium Induced Crystallization", JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 11, No. 9, p. 1079 – 1085, (2009)

4. Pavlova P., Avramov L., Naradikian H., Angelov T., Petrov A. G., "Temperature dependence of chromaticity in polymer-dispersed cholesteric liquid crystal: Reflection and transmission characterstics," Journal of Optoelectronics and Advanced Materials, 7 (1), 285 (2005). I.F. =1.140, **Q2 =20 T.**

4.1: Timothy B. Roth, Ann M. Anderson, " The Effects of Film Thickness, Light Polarization, and Light Intensity on the Light Transmission Characteristics of Thermochromic Liquid Crystals", J. Heat Transfer., 129(3): 372-378, (2007),

<https://doi.org/10.1115/1.2430724>

4.2: Roth, Timothy B., and Anderson, Ann M. "Light Transmission Characteristics of Thermochromic Liquid Crystals." Proceedings of the ASME 2005 International Mechanical Engineering Congress and Exposition. Heat Transfer, Part A. Orlando, Florida, USA. November 5–11, pp. 547-553. ASME (2005). <https://doi.org/10.1115/IMECE2005-81812>

4.3: Pasquerella, Dean A., and Anderson, Ann M. "A Comparison of Chiral Nematic and Cholesteric Thermochromic Liquid Crystals for Use in a Light Transmission Based Temperature Sensing System." Proceedings of the ASME 2007 International Mechanical Engineering Congress and Exposition. Volume 8: Heat Transfer, Fluid Flows, and Thermal Systems, Parts A and B. Seattle, Washington, USA. November 11–15, 2007. pp. 599-607. ASME. <https://doi.org/10.1115/IMECE2007-41855>

4.4: Rodrigo de Oliveira, Bruno H. G. Lourenço, João Sales Jr., Nadyara P. Andery4, Landulfo Silveira Jr.,” ESTUDO DAS PROPRIEDADES TERMOSENSÍVEIS DO CRISTAL LÍQUIDO COLESTÉRICO VISANDO O DESENVOLVIMENTO DE UM TERMÔMETRO CLÍNICO”, www.inicepg.univap.br › anais › INIC1142_02_A.

5. M. Petrov, B. Katranchev, E. Keskinova and H. Naradikian, ‘The electroconvection in dimeric nematic liquid crystals’, Journal of Optoelectronics and Advanced Materials, **9**, 438-441, (2007). I.F. =1.140, **Q2=20 T.**

5.1: N. Éber, P. Salamon & Á. Buka “Electrically induced patterns in nematics and how to avoid them”, Liquid Crystals Reviews, 4:2, 101-134, (2016)
DOI: 10.1080/21680396.2016.1244020

6. Petrov, M., Keskinova, E., Naradikian, H., Katranchev, B.,”Diffraction in smectic C and nematic with short range smectic C order for oblique incidence of coherent laser light”, Journal of Optoelectronics and Advanced Materials, 11 (9), pp. 1226-1229, (2009). I.F. =1.140, **Q2=20T.**

7. B. Katranchev, H. Naradikian, E. Keskinova and M. Petrov, “The electroconvection in nematic liquid crystals with short range smectic C order and negative electroconductivity anisotropy “, Journal of Physics: Conference Series, 253, 012062, (2010). SJR= 0.3, **10T.**

7.1: N. Éber, P. Salamon & Á. Buka “Electrically induced patterns in nematics and how to avoid them”, Liquid Crystals Reviews, 4:2, 101-134, (2016).
DOI: 10.1080/21680396.2016.1244020

8. Petrov, M., Keskinova, E., Katranchev, B., Naradikian, H., “Electroconvection in dimeric nematic liquid crystals with short-range smectic C order: dynamical characteristics“, Liquid Crystals, vol.38, No.1, p.41-52, January (2011).
I.F.=1.959, **Q2=20T.**

8.1: M. Muni Prasad, M.L.N.Madhu Mohan, PV Chalapathi, A.V.N. Ashok Kumar, D.M. Potukuchi, “Influence of spacer and flexible chain on polymorphism in complementary

hydrogen bonded liquid crystal dimers, SA:nOBAs”, Journal of Molecular Liquids, Volume 207, Pages 294-308, July 2015, <https://doi.org/10.1016/j.molliq.2015.03.025>

8.2: P Tadapatri, KS Krishnamurthy, “Competing Instability Modes in an Electrically Driven Bent-Core Nematic Liquid Crystal”, J. Phys. Chem. B, 116, 2, 782-793, (2012), <https://doi.org/10.1021/jp210383p>

8.3: S. Sundaram, T. Vasanthi, P. Subhasri, T. R. Rajasekaran, K. Baskar, R. Jayaprakasam, T. S. Senthil & V. N. Vijayakumar (2017) Thermal and optical studies on induced smectic phases of inter molecular hydrogen bonded liquid crystals between decyloxy benzoic acid and citric acid, Molecular Crystals and Liquid Crystals, 648:1, 148-161, DOI: 10.1080/15421406.2017.1302051

9. M Petrov, B Katranchev, P M Rafailov, H Naradikian, U Dettlaff-Weglikowska and E Keskinova, ‘Optical properties of dimeric liquid crystals doped with single-walled carbon nanotubes’, J. Phys.: Conf. Ser., 398, 012035, (2012). SJR= 0.3, **10T**.

9.1: Satya Prakash Yadav, Shri Singh,” Carbon nanotube dispersion in nematic liquid crystals: An overview”, Progress in Materials Science, 80, 38–76, (2016) <http://dx.doi.org/10.1016/j.pmatsci.2015.12.002>

9.2: Shivkumar Bale, Thilanga P. Liyana-Arachchi & Francisco R. Hung, “Molecular dynamics simulation of single-walled carbon nanotubes inside liquid crystals”, Molecular Simulation, 42:15, 1242-1248, (2016)

DOI: 10.1080/08927022.2016.1174859

9.3: Shivkumar Bale,” Torque transmitted by the nematic liquid crystal to the faceted nanoparticles”, World Journal of Modelling and Simulation, Vol. 12 ,No. 4, pp. 243-258, (2016), ISSN 1 746-7233, England, UK.

10. M. Petrov, B. Katranchev, P.M. Rafailov, H. Naradikian, U. Dettlaff-Weglikowska E., Keskinova and Spassov T., ‘Phases and properties of nanocomposites of hydrogen-bonded liquid crystals and carbon nanotubes’, Phys. Rev. E, **88**, 042503, (2013).

10.1: Achu Chandran,*^{a,b} Jai Prakash,^c Jitendra Gangwar,^{bd} Tilak Joshi,^b Avanish Kumar Srivastava,^b D. Haranathab and Ashok M. Biradar,” Low-voltage electro-optical memory device based on NiO nanorods dispersed in a ferroelectric liquid crystal†”, RSC Adv., 6, 53873–53881, (2016), DOI: 10.1039/c6ra04037c

10.2: Matthew J. Abdy, Andrew Murdoch & Alfonso Martínez-Felipe, “ New insights into the role of hydrogen bonding on the liquid crystal behaviour of 4-alkoxybenzoic acids: a detailed IR spectroscopy study”, Liquid Crystals, 43:13-15, 2191-2207, (2016)

DOI: 10.1080/02678292.2016.1212119

10.3: A.R. Yuvaraj, Wan Sinn Yam , Tze Nee Chan, Yit Peng Goh, Gurumurthy Hegde, “New para-substituted non-symmetric isoflavones for their fast photo-switching ability: Synthesis and their liquid crystal characterization”, Spectrochimica Acta Part A:

Molecular and Biomolecular Spectroscopy, 135, 1115–1122, (2015),
<http://dx.doi.org/10.1016/j.saa.2014.08.009>

10.4: Jai Prakash, Achu Chandran and Ashok M Biradar, “Scientific developments of liquid crystal-based optical memory: a review”, Rep. Prog. Phys., 80 016601, (2017)
<https://doi.org/10.1088/0034-4885/80/1/016601>

10.5: Shivkumar Bale, Thilanga P. Liyana-Arachchi & Francisco R. Hung, “Molecular dynamics simulation of single-walled carbon nanotubes inside liquid crystals”, Molecular Simulation, 42:15, 1242-1248, (2016)

DOI: 10.1080/08927022.2016.1174859

10.6: C.Denktaş, H.Ocakc, M.Okutan, A.Yıldız, B.Bilgin Eran, O.Köysal, “Effect of multi wall carbon nanotube on electrical properties 4-[4-((S)-Citronellyloxy)benzoyloxy]benzoic acid liquid crystal host”, Composites Part B: Engineering, Volume 82, Pages 173-177, (2015),
<https://doi.org/10.1016/j.compositesb.2015.08.021>

10.7: Murthynedi Hari Kishor, M.L.N. Madhu Mohan, Realization of Memory Effect in Smectic X* Phase, Journal of Molecular Structure (2018),
doi: 10.1016/j.molstruc. 2018.05.046

10.8: G Exner, Y Marinov and E Perez, “Investigation of the structure and thermal behaviour of polymer liquid crystal / single wall carbon nanotubes nanocomposite”, Journal of Physics: Conf. Series 780 (2017) 012011,
doi:10.1088/1742-6596/780/1/012011

10.9: Helen F. Gleeson, Series in Soft Condensed Matter Liquid Crystals with Nano and Microparticles, pp. 255-276 (2016), https://doi.org/10.1142/9789814619264_0007

10.10:A.Chaudhary, R.K.Shukla, P.Malik, R.Mehra, K.K.Raina,“ ZnO/FLC nanocomposites with low driving voltage and non-volatile memory for information storage applications”, Current Applied Physics, Volume 19, Issue 12, , Pages 1374-1378, (2019) <https://doi.org/10.1016/j.cap.2019.08.026>

11. M. Petrov, B. Katranchev, P.M. Rafailov, H. Naradikian, U. Dettlaff-Weglikowska and E. Keskinova, ‘Smectic C liquid crystal growth and memory effect through surface orientation by carbon nanotubes’, J. Mol. Liq., 180, 215–220, (2013).

11.1: Achu Chandran, Jai Prakash, Jitendra Gangwar, Tilak Joshi, Avanish Kumar Srivastava, D. Haranathab and Ashok M. Biradara,” Low-voltage electro-optical memory device based on NiO nanorods dispersed in a ferroelectric liquid crystal†”, RSC Adv., 6, 53873–53881, (2016), DOI: 10.1039/c6ra04037c

11.2: Matthew J. Abdy,^{†,‡}, Andrew Murdoch [†], Alfonso Martínez-Felipe [†], ”New insights into the role of hydrogen bonding on the liquid crystal behaviour of 4-alkoxybenzoic acids: a detailed IR spectroscopy study” Liquid Crystals, 43:13-15, 2191-2207, (2016),
<https://doi.org/10.1080/02678292.2016.1212119>

11.3: A.R. Yuvaraj, Wan Sinn Yam , Tze Nee Chan, Yit Peng Goh, Gurumurthy Hegde, “New para-substituted non-symmetric isoflavones for their fast photo-switching ability: Synthesis and their liquid crystal characterization”, Spectrochimica Acta Part A:

Molecular and Biomolecular Spectroscopy, 135, 1115–1122, (2015),
<http://dx.doi.org/10.1016/j.saa.2014.08.009>

11.4: Jai Prakash, Achu Chandran and Ashok M Biradar, “Scientific developments of liquid crystal-based optical memory: a review”, Rep. Prog. Phys., 80 016601, (2017)
<https://doi.org/10.1088/0034-4885/80/1/016601>

11.5: Shivkumar Bale, Thilanga P. Liyana-Arachchi & Francisco R. Hung, “Molecular dynamics simulation of single-walled carbon nanotubes inside liquid crystals”, Molecular Simulation, 42:15, 1242-1248, (2016)

DOI: 10.1080/08927022.2016.1174859

11.6: C.Denktaş, H.Ocakc, M.Okutan, A.Yıldız, B.Bilgin Eran, O.Köysal, “Effect of multi wall carbon nanotube on electrical properties 4-[4-((S)-Citronellyloxy)benzoyloxy]benzoic acid liquid crystal host”, Composites Part B: Engineering, Volume 82, Pages 173-177, (2015),
<https://doi.org/10.1016/j.compositesb.2015.08.021>

11.7: Murthynedi Hari Kishor, M.L.N. Madhu Mohan, Realization of Memory Effect in Smectic X* Phase, Journal of Molecular Structure (2018),
doi: 10.1016/j.molstruc. 2018.05.046

11.8: G Exner, Y Marinov and E Perez, “Investigation of the structure and thermal behaviour of polymer liquid crystal / single wall carbon nanotubes nanocomposite ”,Journal of Physics: Conf. Series 780 (2017) 012011,
doi:10.1088/1742-6596/780/1/012011

11.9: Helen F. Gleeson, Series in Soft Condensed Matter Liquid Crystals with Nano and Microparticles, pp. 255-276 (2016), https://doi.org/10.1142/9789814619264_0007

11.10: A.Chaudhary, R.K.Shukla, P.Malik, R.Mehra, K.K.Raina,“ ZnO/FLC nanocomposites with low driving voltage and non-volatile memory for information storage applications”, Current Applied Physics, Volume 19, Issue 12, , Pages 1374-1378, (2019) <https://doi.org/10.1016/j.cap.2019.08.026>

12. B Katranchev, M Petrov, E Keskinova, H Naradikian, P M Rafailov, U Dettlaff-Weglikowska and T. Spassov, ‘Liquid crystal nanocomposites produced by mixtures of hydrogen bonded achiral liquid crystals and functionalized carbon nanotubes’, J. Phys.: Conf. Ser., 558, 012024, (2014). SJR =0.303, **10 T.**

12.1: KaushikPal, XingxingYang, M.L.N.MadhuMohan, RomanaSchirhagl, Guoping Wang,” Switchable, self-assembled CdS nanomaterials embedded in liquid crystal cell for high performance static memory device”, Materials Letters,Volume 169, Pages 37-41, (2016), <https://doi.org/10.1016/j.matlet.2016.01.064>

12.2: Mahdi Roohnikan, Violeta Toader, Alejandro Rey, and Linda Reven, “Hydrogen-Bonded Liquid Crystal Nanocomposites”, Langmuir, 32 (33), 8442-8450, (2016), DOI: 10.1021/acs.langmuir.6b02256

12.3: Arkadiusz Rudzki, Sławomir Zalewski, Beata Suchodolska, Jan Czerwiec, Mirosława D. Ossowska-Chruściel, and Janusz Chruściel,” Phase Behavior and Dynamics of Binary and Multicomponent Thioester Liquid Crystal Mixtures”, The Journal of Physical Chemistry B, 121 (1), 273-286, (2017),
DOI: 10.1021/acs.jpcb.6b08370

12.4: Arwa Al-shargabi, Guan-Yeow Yeap, Wan Ahmad Kamil Mahmood, Chun-Chieh Han, Hong-Cheu Lin & Masato M Ito , “Liquid crystal dimers containing Cholesteryl and Triazole-containing mesogenic units”, Liquid Crystals,
DOI: 10.1080/02678292.2019.1641637

12.5: Ivan S. Lebedev, Ivan A. Filippov, Kseniya E. Bubnova, Nina I. Giricheva, Mikhail S. Fedorov, Svetlana A. Syrbu, “ИССЛЕДОВАНИЕ СТРУКТУРНОЙ ОРГАНИЗАЦИИ СИСТЕМ НА ОСНОВЕ π-н-ПРОПИЛОКСИКОРИЧНОЙ КИСЛОТЫ И НЕМЕЗОГЕНОВ ТИПА Ph-X-Ph.”, ИЗВЕСТИЯ ВЫСШИХ УЧЕБНЫХ ЗАВЕДЕНИЙ. СЕРИЯ «ХИМИЯ И ХИМИЧЕСКАЯ ТЕХНОЛОГИЯ», 62(4), 87-94. (2019).

<https://doi.org/10.6060/ivkkt.20196204.5973i>

13. B. Katranchev, M. Petrov, P. Rafailov, N. Todorov, E. Keskinova, H. Naradikian, T. Spasov, “Ferroelectric state induced in mixture of dimer liquid crystal and perfluorooctanoic acid,” Molecular Crystals and Liquid Crystals, 632, 21-28, (2016). I.F. =0.53, **Q3 =15 т.**

14. Julia Genova, Minko Petrov, Isak Bivas, Peter Rafailov, Haritun Naradikian, Boyko Katranchev,” Fourier-transform infrared and Raman characterization of bilayer membranes of the phospholipid SOPC and its mixtures with cholesterol.” Colloids and Surfaces A: Physicochemical and Engineering Aspects, 557, 85–93, (2018). <https://doi.org/10.1016/j.colsurfa.2018.04.044>, I.F. = 2.829, **Q2 =20 т.**