

## Списък на публикациите по показател **B-4**

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=25 т.**
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.**
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.**
7. Diankov G., Naradikian H., Angelov T., "Polymer 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 т.**
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.**
9. H. Naradikian, B. Katranchev, E. Keskinova, J.P. Marcerou and M.P. Petrov, 'Thermal and electroconvective 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.**

Общо точки по показател **B-4: 170 т.**

## Публикации по показател Г-7

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.**
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 т.**
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 characteristics," *Journal of Optoelectronics and Advanced Materials*, 7 (1), 285 (2005). I.F. =1.140, **Q2 =20 т.**
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 т.**
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=20т.**
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, **10т.**
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=20т.**
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, **10т.**

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). IF=2,313, **Q1=25т.**
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). IF=2.083, **Q1=25т.**
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 т.**
13. B. Katranchev, M. Petrov, P. Rafailov, N. Todorov, E. Keskinova, H. Naradikian, T. Spassov, “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.**

Точки съгласно Таблица 2, показател „Г7” Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд\* от ЗРАСБ: **Г-7: 255т.**

След добавяне на публикувана заявка за патент или полезен модел вх. No.112488/13.04.2017г. - „Г10” – **15т.**

Общо точките за показател „Г” от таблица 3 стават: **270 т.**