

Ministry of Education and Science of Russian Federation  
Lomonosov Moscow State University  
A.V. Shubnikov Institute of Crystallography of RAS  
Nanomaterials Research Institute of Ivanovo State University  
Physical and Colloid Chemistry Section of Mendeleev Russian Chemical Society  
International Liquid Crystals Society “The Commonwealth”  
“Degree and Profession” Regional Festival of Romualdo Del Bianco Foundation

***LLC’2009***

***VII International Conference  
“Lyotropic Liquid Crystals and Nanomaterials”  
&  
5<sup>th</sup> Chistyakov’s Readings  
“Achievements in Thermotropic  
Liquid Crystals Research”***



Ivanovo, Russia  
September 22 – 25, 2009

**P R O G R A M M E**

*Ivanovo State University  
2009*

## Organizational Committee Members

### Chairpersons:

RAS Corresponding Member, Prof. **Valeriy Shibaev** (MSU, Moscow)

Prof. **Nadezhda Usoltseva** (IvSU, Ivanovo)

### Scientific Secretary:

Dr. **Venera Bykova** (IvSU, Ivanovo)

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### Local organizational Committee:

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## CONFERENCE LOCATION

The registration and all sections of the *VII International Conference on “Lyotropic Liquid Crystals and Nanomaterials” & “Achievements in Thermotropic Liquid Crystals Research”* will be held at Ivanovo State University, building 1 (153025 Ivanovo, Ermak Str., 37/7).

## REGULATIONS AND INFORMATION FOR AUTHORS

The program of the conference will include oral and poster presentations, which may be presented both in English and in Russian.

*Oral presentations:* Each plenary lecture is 40 minutes long for presentation including discussion. Each section reports are limited to 15 minutes including discussion. The session room will be equipped with a laptop with a LCD projector. Presenters can load their presentation materials from their CD-ROM's or USB memory sticks before the beginning of the session.

*Poster presentations:* The posters are demonstrated according to the section schedule. The size of each poster panel is 75 cm wide and 90 cm high. Papers' numbering will be shown on the board. The presenter can display the posters on the board using adhesive tapes on the morning of the assigned day. The final discussions on poster sessions are held in the conference hall according to the schedule. The posters should be removed after the session.

Young scientists' reports taking part in the contest by Prof. I.G. Chistyakov are marked with an asterisk (\*).

All oral presentations of the conference and symposium are classified into sections:

- ✓ Micellar and disperse systems
- ✓ Lyotropic mesomorphism of low-molecular and high molecular compounds systems
- ✓ Achievements in LC polymers research
- ✓ Achievements in thermotropic liquid crystals research
- ✓ Liquid crystals, compositional and other nanomaterials application

Poster presentations are listed in the alphabetical order.

*The proceedings of the conference will be published in a special issue of “Liquid Crystals and their Practical Application”, 2009 – 2010.*

## CONFERENCE PROGRAMME

**Tuesday, September 22**

- 6.00-9.00 Arrival – Hotel «Tourist» (address: Naberezhnaya Str., 9)  
8.00-9.30 Conference Participants' Registration, IvSU, building 1, Assembly Hall (Ermak str., 37/7).

### **Conference opening**

*(Assembly Hall, IvSU building 1, floor 4)*

9.30 – 10.00

1. Opening Greetings – Prof. V.N. Egorov (Ivanovo, Russia)
2. Speech of welcome

### **Plenary Session and Young Scientists' School**

*Chairpersons: RAS Corresponding Member, Prof. Valeriy Shibaev (MSU, Russia),  
Prof. Nadezhda Usoltseva (IvSU, Russia)*

- 10.00-10.40 Praefcke K., Eckert A. (Berlin, Germany) – How spacious can a mesogenic molecule be?
- 10.40-11.20 Bellini T. (Milano, Italy) – DNA liquid crystals.
- 11.20-12.00 Dierking Ingo (Manchester, UK) – Liquid crystal – nanotube dispersions.
- 12.00-13.30 **Lunch**
- 13.30-14.10 Hanasaki T., Fukui K., Kawamura A., Shimada O. (Shiga, Japan) – Temperature dependence of dynamic viscoelastic properties for cholesteryl alkanooates and dicholesteryl alkanedioates.
- 14.10-14.40 Abdulhalim I., Aharon Ofir, Safrani Avner, Mor Shahr (Beer Sheva, Israel) – Biomedical optical imaging assisted by liquid crystal devices.
- 14.40-15.00 **Coffee-break**

## Evening Session

### **SECTION: MICELLE AND DISPERSE SYSTEMS**

*(Assembly Hall, building I, IvSU, floor 4)*

*Chairperson: Prof. V.N. Matveenko (Moscow, Russia),  
Dr. L.I. Mineev (Ivanovo, Russia)*

- 15.00-15.30 Bakeeva R.F., Gorbunova T.S., Razina I.S., Sopin V.F. (Kazan, Russia), Kuklin A.I. (Dubna, Russia) – Reagents' effects on micelle nanoreactor structure.
- 15.30-15.50 Pashirova T.N., Lukashenko S.S., Zhiltsova E.P., Zakharova L.Ya., Konovalov A.I. (Kazan, Russia) – Micelle formation and catalytic activity of systems on the basis of 4-aza-1-alkyl-1-azoniabicyclo-[2.2.2]octane bromides.
- 15.50-16.10 Melnikov A.B., Antonov E.A., Zorin I.M., Makarov I.A. (St. Petersburg, Russia) – Hydrodynamic properties of polymerized micelles.
- 16.10-16.30 Kuznetsov V.S., Usoltseva N.V., Blinov A.P., Bykova V.V. (Ivanovo, Russia) – Electrostatic ion micelle surface properties in ellipsoide rotation model.
- 16.30-16.50 Kirsanov E.A. (Kolomna, Russia) – Principles of structured systems' flow.
- 16.50-17.10 Zorin I.M., Ushakova T.S., Makarov I.A., Antonov E.A., Melnikov A.B., Bilibin A.Yu. (St. Petersburg, Russia) – Complex macromolecular systems' design with the use of micelle formation processes, ion and covalent interactions.
- 18.00 ***Welcome party***

## Wednesday, September 23

8.30-9.30 *Poster Presentations from № 1 to № 37 (lobby, floor 4)*

9.30 – 15.30

### **Plenary Session and Young Scientists' School**

*(Assembly hall, floor 4)*

*Chairpersons: Prof. A.V. Kaznacheev (Moscow, Russia),  
Dr. V.V. Bykova (Ivanovo, Russia)*

- 9.30-10.00 Evdokimov Yu.M. (Moscow, Russia) – Nanotechnology and nucleic acids.
- 10.00-10.30 Dadivanyan A.K., Chausov D.N., Ikonnikova V.V., Ryabova Yu.M. (Moscow, Russia) – Phase transitions in lyotropic liquid crystals.

- 10.30-11.00 Sonin A.S., Churochkina N.A. (Moscow, Russia) – Liquid crystals stabilized by polymeric nets.
- 11.00-11.30 Matveenko V.N. (Moscow, Russia) – Questions of classical colloid chemistry in Russia.
- 11.30-12.00 Skuridin S.G., Evdokimov Yu.M., Dubinskaya V.A., Bykov V.A. (Moscow, Russia) – Liquid crystal dispersions of linear double-stranded DNA molecule complexes with dendrimers.
- 12.00-13.30 **Lunch**

### Evening Session

#### **SECTION: LYOTROPIC MESOMORPHISM IN LOW-MOLECULAR AND HIGH MOLECULAR COMPOUNDS SYSTEMS** (Conference Hall, floor 2)

*Chairpersons: Prof. S.G. Skuridin (Moscow, Russia),  
Dr. N.V. Zharnikova (Ivanovo, Russia)*

- 13.30-13.50 Sonin A.S., Churochkina N.A., Golovanov A.V. (Moscow, Russia) – Composites with lyotropic liquid crystals.
- 13.50-14.10 Zaytsev V.V., Polskiy O., Zatseva N.B. (Moscow, Russia) – Ionizing radiation indication by the polarizing microscopy method.
- 14.10-14.30 Golovanov A.V. (Moscow, Russia), Shapovalov (Volgograd, Russia) – Maluse law modification for spinning deformation in lyotropic nematics on the basis of statistic approach.
- 14.30-14.50 Selivanov N.M., Nassar I.M., Galeva A.I., Galyametdinov Yu.G. (Kazan, Russia) – Lyotropic liquid crystal systems in the formation of well-ordered nanostructures.
- 14.50-15.10 Sonin A.A. (Moscow, Russia) – Porous films with low permittivity made with the use of lyotropic liquid crystals.
- 15.10-15.30 Safonova E.A., Smirnova N.A. (St. Petersburg, Russia), Gradzielski M. (Berlin, Germany) – Structural characteristics of aqueous solutions of sodium alkylsulfate (alkyl sulfonate) and alkyldimethylamine oxide mixtures according to the Photonic Correlation Spectroscopy, Rheometry and SANS Data.
- 15.30-16.00 **Coffee-break**

**Wednesday, September 23**

13.30 – 17.20

**Evening Parallel Session**

***SECTION: ACHIEVEMENTS IN THERMOTROPIC  
LIQUID CRYSTALS RESEARCH***

*(Assembly Hall, floor 4)*

*Chairpersons: Prof. E.I. Ryumtsev (St. Petersburg, Russia),  
Dr. M.A. Zharova (Ivanovo, Russia)*

- 13.30-13.50 Kaznacheev A.V., Smirnova I.Yu., Sonin A.S. (Moscow, Russia) – Electro-optics of nematic liquid crystals stabilized by polymer net (PNLC).
- 13.50-14.10 Aleksandrov A.I., Pashkova T.V., Pyatunin A.V. (Ivanovo, Russia) – Conformational crown ethers' flexibility and Langmuir-Blodgett films' structure.
- 14.10-14.30 Ibragimova A.R., Valeeva F.G., Zakharova L.Ya., Kazakova E.Kh., Syakaev V.V., Latypov Sh.K. (Kazan, Russia) – Supramolecular catalytic systems on the basis of amphiphilic calyxarenes immobilized on hydrophilic polymer matrix.
- 14.30-14.50 Shabatina T.I., Sergeev G.B. (Moscow, Russia) – Cryoformation of metal – mesogenic nanostructures.
- 14.50-15.10 Zharkova G.M. (Novosibirsk, Russia) – Nanostructuring of polymer-liquid crystal composites.
- 15.10-15.30 Sutormin V.S., Krakhalev\* M.N., Prischeva O.O., Zyryanov V.Ya. (Krasnoyarsk, Russia) – Temperature induced changes of director configuration in nematic drops dispersed in polymer matrix.
- 15.30-16.00 ***Coffee-break***
- 16.00-16.20 Gardymova\* A.P., Zyryanov V.Ya. (Krasnoyarsk, Russia) – Bistability effect in composite polymer films with cholesterol LC drops doped by ion surfactant.
- 16.20-16.40 Abdurasulov A.A., Salakhutdinov M.I. (Dushanbe, Tajikistan) – About dynamic transfer coefficients of nematic liquid crystal.
- 16.40-17.00 Chernyak\* K.G. (St.Petersburg) – Chevron smetic C\* in external electric field.
- 17.00-17.20 Shmeleva D.V., Voronov A.N., Semerenko D.A., Pasechnik S.V., Karpukhina A.V. (Moscow, Russia) – Rheology of nematic liquid crystal surface layer.
- 16.00-19.00 ***Poster presentations from № 1 to № 37 (lobby, floor 4)***

## Thursday, September 24

8.30-9.30 *Poster Presentations from № 38 to № 75 (lobby, floor 4)*

### Plenary Session and Young Scientists' School

*(Assembly Hall, floor 4)*

9.30 – 11.30

*Chairpersons: Prof. N.I. Boiko (Moscow, Russia),  
Prof. V.A. Burmistrov (Ivanovo, Russia)*

- 9.30-10.10 Shibaev V.P. (Moscow, Russia) – Achievements in the field of obtaining and research of liquid crystal comb-like polymers.
- 10.10-10.50 Sokolova E.P. – Simple models of the mesomorphic mixtures of hard attractive particles of the different form.
- 10.50-11.30 Polushin S.G., Ryumtsev E.I. (St. Petersburg, Russia) – Electro-optics of comb-like mesogenic polymer isotropic flux.
- 11.30-12.00 *Coffee-break*

### **SECTION: ACHIEVEMENTS IN LC POLYMERS RESEARCH**

*(Conference Hall, floor 2)*

*Chairpersons: RAS Corr. Memb. V.P. Shibaev (Moscow, Russia),  
Dr. O.V. Alekseeva (Ivanovo, Russia)*

- 12.00-12.30 Boiko N.I., Shibaev V.P. (Moscow, Russia) – Carbosilane liquid crystal dendrimers of different molecular architecture containing terminal photosensitive groups.
- 12.30-13.00 Makarova N.N., Petrova I.M., Kaznacheev A.V. (Moscow, Russia) – Synthesis of new comb-like LC cycloliner polymethylsiloxanes and research of siloxane matrix architecture influence on polyomesomorphism and packing type in LC state.
- 13.00-14.30 *Lunch*

## Evening Session

14.30 – 16.50

- 14.30-14.50 Ivanov\* M.G., Boiko N.I., Chernikova E.V., Shibaev V.P. (Moscow, Russia) – New fully liquid crystal symmetrical triblock-copolymers.
- 14.50-15.10 Taldrik\* A.V., Makarova N.N. (Moscow, Russia) – Influence of cycloliner methylsiloxane copolymers' stereoregularity on comb-like LC polymers' properties.
- 15.10-15.30 Ryabchun\* A.V., Medvedev A.S., Bobrovskiy .Yu., Shibaev V.P. (Moscow, Russia) – Research of self-organization and photooptical processes in photochromic polymeric LC systems' films.
- 15.30-15.50 Kirsanov E.A., Timoshin Yu.N. (Kolomna, Russia) – Shear viscosity of polymer fluxes.
- 15.50-16.10 Blokhina S.V., Olkhovich M.V., Sharapova A.V., Usoltseva N.V. (Ivanovo, Russia) – Individual and mixed stationary phases on the basis of liquid crystal dendrimers.
- 16.10-16.30 Myasoedova V.V., Lyusova L.R., Optov V.A., Schegolin A.N. (Moscow, Russia) – Cellulose polymorphism and thermotropic liquid crystals of ethyl cellulose/synthetic and natural polymer composites.
- 16.30-16.50 Shatalova A.M., Shandryuk G.A., Merekalov A.S., Bondarenko G.N., Talrose R.V., Vasilyev R.B., Matukhina E.V. (Moscow, Russia), Zubarev E. (Houston, TX, USA) – Stabilization and organization of semi-conducting nanoparticle in liquid crystal polymer matrixes.

## Thursday, September 24

### Parallel SESSION

12.00 – 17.30

#### **SECTION: ACHIEVEMENTS IN THERMOTROPIC LIQUID CRYSTALS RESEARCH**

*(Assembly Hall, floor 4)*

*Chairpersons: Prof. A.S. Sonin (Moscow, Russia),  
Dr. L.N. Lisetskiy (Kharkov, Ukraine)*

- 12.00-12.30 Pasechnik S.V., Dubtsov A.V., Shmeleva D.V., Tsetkov V.A. (Moscow, Russia) – Surface dynamics of nematic liquid crystals.
- 12.30-12.45 Pestov S.M., Kochetov A.N., Kuznima L.G. (Moscow, Russia) – About correlation of crystal and mesophase structures.
- 12.45-13.00 Pestov S.M. (Moscow, Russia) – Calamitic properties calculation.
- 13.00-14.30 **Lunch**

- 14.30-14.50 E.S. Pikina, V.E. Podnek (Moscow, Russia) – «Elastic» fluctuation-induced effects in smectic wetting film.
- 14.50-15.10 Maksimochkin G.I., Pasechnik S.V. (Moscow, Russia) – Acoustic and photon-correlation spectroscopy of thermotropic liquid crystal nanoemulsions.
- 15.10-15.30 Zharova M.A., Usoltseva N.V. (Ivanovo, Russia), Ungar G. (Sheffield, UK), Kholodkov I.V., Rybkin V.V. (Ivanovo, Russia) – Research of modified banana-like mesogen crystal phases using of synchrotron radiation and atomic force microscopy methods.
- 15.30-15.50 Nosikova L.A., Tsivadze A.Yu., Kudryashova Z.A., Timakova A.A. (Moscow, Russia) – Substituent nature influence on stability of phthalocyanine mesomorphic properties.
- 15.50-16.10 Kudryashova Z.A., Nosikova L.A., Tyutyunik L.L., Pronin I.A. (Moscow, Russia) – H-bond influence on thermodynamic equilibrium in mesogen systems.
- 16.10-16.30 Zakhlevnikh A.N., Makarov\* D.V. (Perm, Russia) – Ferronematic tricritical behavior at Frederick's transition.
- 16.30-16.50 Frolova T.V., Akopova O.B., Gruzdev M.S. (Ivanovo, Russia) – Mesomorphism and molecular parameters of triethanolamine derivatives.
- 16.50-17.10 Znoiko\* S.A., Maizlish V.E., Shaposhnikov G.P., Ananyeva G.A., Bykova V.V., Usoltseva N.V. (Ivanovo, Russia) – Synthesis and research of physicochemical properties of heterosubstituted phthalocyanines and their metal complexes.
- 17.10-17.30 Aleksandriyskii V.V., Burmistrov V.A. (Ivanovo, Russia) – H-complexes mesogen – H-donating structure on NMR data and quantum chemical calculations.
- 17.30 ***Poster Session: presentations from № 38 to № 75.***
- 18.30 ***Banquet***

## Friday, September 25

9.30 – 15.00

### Plenary session

(Assembly Hall, floor 4)

Chairpersons: Prof. V.V. Rumyantsev (Donetsk, Ukraine),  
Prof. V.A. Godlevskiy (Ivanovo, Russia)

- 9.30-10.00 Pikin S.A. (Moscow, Russia) – Physical aspects of structure and functioning helicase as molecular nanomotors.
- 10.00-10.30 Zharkova G.M., Petrov A.P., Khachatryan V.M. (Novosibirsk, Russia) – Optical properties of reflecting polymer – liquid crystal cells.
- 10.30-11.00 Levchenko V.A., Matveenko V.N., Buyanovskiy I.A., Ignatyeva Z.V. (Moscow, Russia) – Nanotechnologies: nanostructured carbonic covering-orientants and their interaction with ELC lubricant layers.

### SECTION: LIQUID CRYSTALS, COMPOSITIONALS AND OTHER NANOMATERIALS APPLICATION

(Assembly Hall, floor 4)

Chairpersons: Prof. M.I. Salakhutdinov (Dushanbe, Tajikistan),  
Prof. O.B. Akopova (Ivanovo, Russia)

- 11.00-11.20 Onuchak L.A., Zhosan A.I., Platonov V.I., Mukhanova I.M. (Samara, Russia) – Chiral gas-mesophase chromatography on capillary columns.
- 11.20-11.40 Blokhina S.V., Olkhovich M.V., Sharapova A.V. (Ivanovo, Russia) – Sorption and selective properties of fullerene modified by liquid crystalline *p,p'*-azoxyphenetole.
- 11.40-12.00 Krakhalev\* M.N., Prischepa O.O., Shabanov A.V., Zyryanov V.Ya. (Krasnoyarsk, Russia) – Electro-controlled ion modification effect of interphase boundary in nematic drops.
- 12.00-13.30 **Lunch**
- 13.30-13.50 Rumyantsev V.V., Fedorov S.A., Gumennik K.V. (Donetsk, Ukraine) – Optical activity of non-ideal LC-super lattices.
- 13.50-14.10 Kuznetsov S.A. (Ivanovo, Russia) – Molecular modeling of border lubricant layers.

- 14.10-14.25 Kuvshinova S.A., Burmistrov V.A., Koifman O.I. (Ivanovo, Russia) – Highly selective stationary phases for a gas chromatography based on supramolecular liquid crystals.
- 14.25-14.40 Kuvshinova S.A., Burmistrov V.A., Koifman O.I. (Ivanovo, Russia) – Thermodynamic analysis of structural selectivity factors of some supramolecular mesogenic solvents.
- 14.40-15.00 Shilov\* M.A. (Ivanovo, Russia) – Hydrodynamic characteristics modeling of Neonol in Gromacs software.
- 15.00-15.30 *Coffee-break*

**15.30-16.30 – Final SESSION**  
(*Assembly Hall, floor 4*)

1. Section Chairpersons' Presentations
2. General Discussion
3. *Summing up of the results of the young scientists' contest*
4. Awarding
5. Conference Closing.

## Poster Session

1. Akopova O.B., Frolova T.V., Gruzdev M.S. (Ivanovo), Senchikhin I.N., Kiselev M.R. (Moscow) – Synthesis and Analysis of Triphenylene Chiral Derivatives with the Predictable Type of Mesomorphism.
2. Akopova O.B. (Ivanovo), Logacheva N.M., Baulin V.E., Tsivadze A.Yu. (Moscow), Terentyev V.V., Subbotin K.V. (Moscow) – Analysis of the Tribological Properties of Discotic Mesogens – Phthalocyanine Derivatives Including Crown Ether Fragments.
3. Akopova O.B., Gvozdev A.A., Lapshin V.B. (Ivanovo) – Lubricant Composition on the basis of Liquid Crystals Hydroquinone Derivatives.
4. Alekseeva O.V., Bagrovskaya N.A., Bykova V.V., Usoltseva N.V. (Ivanovo) – Bioactive Compositions on the basis of Cellulose Triacetate and Phthalocyanine.
5. Aleksandrov A.I., Pashkova T.V., Pyatutin A.V. (Ivanovo) – Biaxial Langmuir-Blodgett Films on the basis of Crown Ether – Fullerene Complexes.
6. Aleksandriyskiy V.V., Burmistrov V.A., Bobritskaya E.V., Novikov I.V. (Ivanovo) – Physical-Chemical Properties of Liquid Crystal – Imidazole Binary Systems.
7. Bayramov G.M., Ibragimov T.D., Imamaliev A.R. (Baku) – Influence of Small Silver Particles on the Electrohydrodynamic Instability Barrier of Nematic Liquid Crystal.
8. Bayramov G.M., Imamaliev A.R., Ibragimov T.D. (Baku) – Colloid Liquid Crystalline Composite with Double-frequency Control.
9. Belyaev A.A., Shabatina T.I., Sergeev G.B. (Moscow), Akopova O.B. (Ivanovo) – Nanosized Silver Aggregates with Thiocholesterine.
10. Beloborodov I.V., Polushin S.G., Ryumtsev E.I. (St. Petersburg) – Influence of the Main Chain on the Dynamic of Induced Orientation Order in Isotropic Melt of Comb-like LC Polymers.
11. Beryozina E.V., Bykova V.V., Usoltseva N.V., Korsakov\* M.N., Pavlov\* A.S. (Ivanovo) – Polarizing microscopy Analysis of Plastic Lubricant Materials.
12. Borovkov N.Yu., Blokhina S.V. (Ivanovo) – Specific Interaction in Fullerene – Naphthalene – Thiophene System.
13. Bumbina N.V. (Ivanovo) – Dimers on the basis of Cholesterol.
14. Bykova V.V., Ananyeva G.A., Zharnikova N.V., Usoltseva N.V. (Ivanovo) – Mesomorphism of Polycyclic Diamines with 2,3,4-trialkyloxybenzene.
15. Bykova V.V., Ananyeva G.A., Usoltseva N.V. (Ivanovo) – Influence of Bulky Substituents on the Mesomorphic Properties of Esters on the basis of Malonic Acid.
16. Voronin M.A., Ibragimova A.R., Valeeva F.G., Zakharova L.Ya., Semyonov V.E., Reznik V.S. (Kazan) – Dimeric Surface Active Substances with Heteroaromatic Spacer – New Building Blocks for Supramolecular Catalyst Formation.
17. Gabdulsadykova\* G.F., Zharova M.A., Usoltseva N.V. (Ivanovo) – Influence of Chiral Acceptor Electrons ((-)-TAPA) Addition on Mesogeneity of Substituted Benzeneamine Derivatives.
18. Glazunov A.V., Syrbu S.A., Semeykin A.S., Lubimova T.V. (Ivanovo, Russia) – Synthesis of Alkoxy Derivatives of *meso*-Phenyl substituted Porphyrines.

19. Golovanov A.V. (Moscow) – Elastic Properties of Nematic in Tetrapalladium organyl – Pentadecane System.
20. Golovanov A.V. (Moscow) – Viscous Properties of Nematic in Tetrapalladium organyl – Pentadecane System.
21. Golovanov A.V. (Moscow, Russia), Shapovalov V.I. (Volgograd) – Inclusion Times of Torsional Deformation of Lyotropic Nematic in Magnetic Fields of Free Orientation.
22. Gunyakov V.A., Myslivets S.A., Parshin A.M., Zyryanov V.Ya., Arkhipkin V.G., Shabanov V.F. (Krasnoyarsk) – Management of 1-D Photon Crystal Transmission Spectrum under the Reorientation of Nematic Layer from Homeotropic to Planar State.
23. Dadivanyan\* N.A., Finkelmann H. (Freiberg) – Synthesis and Properties of LC Elastomers with Local “Oblate” Conformation.
24. Delyev V.A., Timirov Yu.I., Skaldin O.A. (Ufa) – Domain Autosynchronizers Synchronization at Electroconvection in NLC.
25. Draginda\* Yu.A., Palto S.P., Yudin S.G. (Moscow) – Langmuir-Blodgett Heterostructures on the basis of Multimolecular Layers.
26. Drokin N.A., Belyaev B.A. (Krasnoyarsk), Kumatov A.M. (Moscow) – Orientational Order Study of Liquid Crystals Molecules in Polycapillary Matrixes by Dielectric Method.
27. Elnikova L.V. (Moscow) – The Method of Life Time Positron Spectroscopy and Lipid Membranes’ Combined Irradiation.
28. Zharnikova N.V., Bykova V.V., Ananyeva G.A., Usoltseva N.V., Mayzlish V.E., Shaposhnikov G.P. (Ivanovo) – Thermotropic and Lyotropic Mesomorphism of N-acetylated Copper Phthalocyanines.
29. Zavora L.N., Serbina M.I., Kasyan N.A., Lisetskiy L.N. (Kharkov) – Spectral-luminescent Properties of Pyrene and *o*-POPOP in Liquid Crystalline Solvents.
30. Znoyko\* S.A., Mayzlish V.E., Shaposhnikov G.P., Ananyeva G.A., Bykova V.V., Usoltseva N.V. (Ivanovo) – Synthesis and Mesomorphic Properties of Benzotriazolyl Substituted Phthalocyanines and their Metal Complexes.
31. Kazak\* A.V., Usoltseva N.V., Bykova V.V., Aleksandrov A.I., Semeykin A.S. (Ivanovo) – Supramolecular Organization Model of Porphyrine Derivative.
32. Kazantseva A.I., Bulgakov S.A., Jones M.M., Stepanov E.V. (Nizhniy Novgorod) – Memory Effect in Liquid Crystals Capsulated by Acryl Copolymer after External Electric Field Application.
33. Komolkim A.V., Neverov V.S. (St. Petersburg), Mine Ilk Capar, Emine Cebe (Ege, Turkey), Zakharov A.V. (St. Petersburg) – Molecular Translational and Rotational Dynamics of Nematic Liquid Crystals as Studied by Computer Simulation.
34. Kuvatov Z.Kh. (Ufa) – Liquid Crystals Properties with Intermolecular Hydrogen Bond.
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