

17th EUROPEAN CONFERENCE ON LIQUID CRYSTALS

MONDAY, JUNE 2, 2025

MONDAY 17:20 - 20:00	POSTER SESSION I
1	Design and Synthesis of Liquid Crystals
P 01	Helical network phases of bent-shaped polycatenar dimers <u>M. Alaasar</u> , Y. Cao, Y. Zaho, T. Tan, F. Liu
P 02	Synthesis and characterization of high birefringence liquid crystals containing thieno[3,2-b]thiophene core <u>M. Bakiera</u> , J. Herman, J. Karcz, J. Dziaduszek, P. Perkowski, P. Harmata
P 03	The effect of lateral substitution far from the chiral centre for photo-active self-assembling materials <u>A. Bubnov</u> , M. Cigl, S. Mironov, T. Suchánek, J. Marhoul, P. Tomášková, Z. Böhmová, V. Hamplová
P 04	Influence of lateral substituents and long terminal flexible chains on the mesomorphic properties of seven-ring symmetrical bent-shaped derivatives <u>I. Carlescu</u> , R. Avram, A. M. Gheorghita, D. Zaharia, A. Simion, I. Berladean, C. I. Ciobanu, G. Lisa
P 05	Novel liquid crystalline fluorene and fluorenone MIDA boronates: influence of alkyl vs alkoxy side chains on the mesomorphic properties <u>F. Feucht</u> , C. Schilling, A. Zens, S. Laschat
P 06	Synthesis, chiral separation and physical properties of the cinnamic acid derivatives exhibiting short-pitch cholesteric and TGB phases T. Jurkovičová, P. Vaňkátová, M. Cigl, V. Novotná, <u>V. Hamplová</u> , D. Pociecha, N. Podoliak
P 07	Chiral photo-active liquid crystalline symmetric dimers laterally substituted by ethyl and methyl groups <u>V. Hamplová</u> , M. Cigl, Z. Böhmová, P. Tomášková, A. Ruzsová, S. Mironov, A. Bubnov
P 08	Fluorophores as guests in crowded star-shaped host mesogens <u>F. N. Chalamukath</u> , T. Bauer, S. Maier, M. Lehmann
P 09	Synthesis and properties of liquid crystalline organic semiconductors based on metalloporphyrin <u>J.-W. Ka</u> , M. Choi
P 10	Synthesis and characterization of non-symmetrical dimers exhibiting twist-bend nematic phase <u>J. Karcz</u> , J. Herman, P. Kula
P 11	First azulene de Vries materials, a smectic re-entrance phase and further tailoring of liquid crystalline self-assembly <u>B. Lutz</u> , F. Schulz, B. Wank, D. Rück, D. Batman, P. Nacke, W. Frey, S. Laschat
P 12	Pyridine scaffold in focus: towards designing ionic and zwitterionic bent-core liquid crystals <u>A. Mašulović</u> , M. B. Ros
P 13	New self-organised benzo[b]thiophene-based materials for GHz applications <u>A. Mieczkowska</u> , J. Herman, N. Rychłowicz, M. Zając, P. Harmata
P 14	Effect of the lactate group number and lateral substitution by methyl group on mesomorphic and photosensitive behaviour for chiral liquid crystals <u>S. Mironov</u> , M. Sanginov, J. Knop, M. Cigl, P. Tomášková, Z. Böhmová, V. Hamplová, A. Bubnov
P 15	Chiral, photosensitive and luminescent ligands for magnetic nanoparticles <u>M. Novák</u> , M. Šmahel, M. Kohout
P 16	Synthesis, mesomorphic and gelation property of semi-fluoroalkylated compounds containing a phenyl benzoate core <u>H. Okamoto</u> , K. Matsumoto, Y. Suzuki, S. Mutaguchi, Y. Morita
P 17	Synthesis of deuterated chiral and luminescent dopants for materials with circularly polarized luminescent properties <u>J. Poláková</u> , V. Domenici, F. Zinna, M. Cifelli, A. Bubnov, J. Svoboda, M. Kohout
P 18	Liquid crystalline self-assembly of azulene–thiophene hybrids and their applications as OFET materials <u>D. Rück</u> , F. Schulz, S. Takamaru, T. Bens, J. Hanna, B. Sarkar, S. Laschat, H. Iino
P 19	Supercritical fluid chromatography for separation of ferroelectric nematics <u>P. Vaňkátová</u> , M. Cigl, K. Kalíková
P 20	Highly-polar nematic materials from the group of cyano-diester containing 1,3-dioxane unit N. Komínek, <u>J. Žukowska</u> , D. Pociecha, J. Herman, P. Kula

2	Polar and Ferroelectric Nematics
P 21	Hybrid colloids based on ferroelectric nematics and barium hexaferrite magnetic nanoplatelets P. Golub , V. Novotná, V. Hamplová, Z. Böhmová, N. Podoliak, M. Cigl, T. Landovský, N. Podoliak, J. Trucl, D. Lisjak
P 22	Colossal dielectric permittivity and superparaelectricity in phenyl pyrimidine-based liquid crystals W. Jiang , Yu. P. Panarin, N. Yadav, M. Sahai, Y. Tang, X. Zeng, O. E. Panarina, J. K. Vij, G. H. Mehl
P 23	Halogen substituents in design of new compounds exhibiting ferroelectric nematic phase M. Cigl , V. Novotná, P. Golub, N. Podoliak, D. Repčák
P 24	On the study of half-integer topological defects in the ferroelectric nematic phase with the help of photoalignment patterning B. de Vries , M. Li, K. Neyts, I. Nys
P 25	Design and synthesis of polar LC materials: On the way to ferroelectric nematic mesophase A. Pospíšil , M. Kohout, J. Poláchová, D. Fardis, V. Novotná, N. Podoliak
P 26	Synthesis and characterisation of highly fluorinated ferroelectric nematogens S. Ramsay , M. Juodka, J. Spieß, C. T. Imrie, J. M. D. Storey, R. Walker
P 27	Ferroelectric nematic liquid crystal mixtures for enhanced liquid crystal device performance S. Sanni , A. Saxena, N. Collings, R. J. Mandle, H. F. Gleeson, M. Nagaraj
P 28	What is the role of local electric fields in shaping defects in ferroelectric nematics? A. Sterle , N. Sebastián, N. Osterman, R. Mandle, C. J. Gibb, J. Hobbs, A. Mertelj
P 29	Mechanical and magneto-optical behaviour of a room-temperature nematic phase with polar symmetry E. E. Zavvou , A. Jarosik, H. Nádasi, C. A. Krontiras, P. K. Karahaliou, A. Eremin
P 30	Vibration dynamics of ferroelectric fibres in oscillating electric fields A. Jarosik , H. Nádasi, A. Eremin
P 31	Intrinsic relaxor-like nature in single-component polar nematics F. Ye , S. Aya, M. Huang
P 32	Experimental and theoretical explorations of relaxor ferroelectric fluids Y. Zou , X. Zhang, M. Huang, S. Aya
P 33	Liquid crystals as new tunable sources of entangled photon pairs A. Kavčič , V. Sultanov, E. Kokkinakis, N. Sebastian, M. V. Chekhova, M. Humar
P 34	Controlled photon entanglement from FNLCs S. Klopčič , A. Kavčič, N. Sebastián, M. Humar
5	Photonic, Electro- and Photo-Responsive Systems
P 35	Directional laser emission from 3D Blue Phase photonic crystals E. Oton, M. Muszyński, K. Cyprych, P. Kapuściński, P. Morawiak , M. Popławska, J. Myśliwiec, J. Szczytko, W. Piecek
P 36	Whispering gallery modes as a tool to probe phase transitions A. Neogi , I. Muševič
P 37	Reusable UVA/UVB radiation dosimeter based on the spiropyran-doped liquid crystal polymer film G. Petriashvili , A. Chanishvili, K. Chubinidze, N. Ponjavidze, E. Kalandia, T. Makharadze, A. Petriashvili
P 38	Change in inner structure of azo-doped 8OCB liquid crystal droplets by blue light irradiation D. Sato , Y. Sumino, T. Yamamoto, I. Muševič, Y. Takenaka
P 39	Azobenzene-enhanced photocontrol of B4 morphologies in bent-core liquid crystals B. Sezgin , T. Hegmann
P 40	Generation of chiral nematic solitonic structures promoted by dye-induced orientational nonlinearity S. Shvetsov , D. Darmoroz, T. Orlova, M. Rafayelyan
P 41	Third-order nonlinear optical phenomena in photo-active chiral liquid crystalline materials A. Szukalski , K. Kamiński, K. Cyprych, J. Myśliwiec, S. Mironov, M. Cigl, V. Hamplová, A. Bubnov
P 42	Carbon nanotube-reinforced photonic cholesteric liquid crystals for enhanced calcium ion detection A. Singh , B. P. Singh, S.-J. Hwang
P 43	Synergistic effects of various dimensional nanomaterials on PDLCs for energy-efficient smart windows Y.-Ch. Xiao , B. P. Singh, S.-J. Hwang

P 44	Smectic and soap bubble optofluidic lasers <u>Z. Korenjak</u> , M. Humar
7	Theory and Simulation of Liquid Crystals
P 45	Bent-shaped mesogens can give rise to a splay-twist modulated nematic phase G. Barbero, L. R. Evangelista, <u>I. Lelidis</u>
10	Hybrid and Nanostructured Systems
P 46	Polarity and charge transport in liquid crystals formed by self-assembled umbrella-shaped subphthalocyanine mesogens: Doping vs. covalent binding of fullerenes M. Baumann, M. Lehmann, <u>A. Eremin</u>
P 47	Novel swimming behavior of microrod under electric field <u>S. J. Selvin Robert</u> , M. Ravnik, I. Mušević
P 48	Hybrid doping of nematic liquid crystals with methyl red dye and silver nanowires: A route to enhanced multifunctional properties <u>S. Sharma</u> , R. Manohar

TUESDAY, JUNE 3, 2025

TUESDAY 17:20 - 20:00	POSTER SESSION II
3	Mesophase Structure and Behaviour
P 49	High-resolution AC calorimetric and optical study along the N-NS-NF phase sequence of RM734 liquid crystal M. Lavrič, N. Sebastian, C.J. Gibb, R.J. Mandle, A. Mertelj, N. Novak, <u>G. Cordoyiannis</u>
P 50	Polarization switching in ferroelectric smectic phases, orthogonal and tilted <u>K. Kwiatkowska</u> , G. J. Strachan, E. Górecka, D. Pociecha
P 51	Spontaneous helix formation in polar smectic C phase E. Gorecka, <u>M. Majewska</u> , L. Fekete, J. Karcz, J. Żukowska, J. Herman, P. Kula, D. Pociecha
P 52	The twist-bend smectic phases: On the role of lateral substituents <u>A. Pearson</u> , G. Strachan, D. Pociecha, E. Gorecka, J. M. D. Storey, C. T. Imrie, R. Walker
P 53	Investigation of spontaneous polarization-tilt angle coupling as a method for determining dominant interactions in polar smectics <u>W. Piecek</u>
P 54	The effect of dipolar associations on the static dielectric response of cyanobiphenyl-based liquid crystal dimers <u>E. E. Zavvou</u> , W. Jiang, C. Welch, G. H. Mehl, C. A. Krontiras, A. G. Vanakaras, P. K. Karahaliou
4	Complex and Chiral Phases
P 55	Tunable self-assembled structures in cholesteric liquid crystal under external fields <u>V. Lackova</u> , D. Petrov, D. V. Makarov, K. Konyova, N. Tomasovicova, P. Kopcansky
P 56	Comparative study of the optical and dielectric anisotropy of laterally fluorinated liquid crystalline oligomers with two nematic phases <u>E. E. Zavvou</u> , C. Welch, G. H. Mehl, A. G. Vanakaras, P. K. Karahaliou
6	Light-emitting Materials and Light-steering Systems
P 57	Laser emission from a large area of a cholesteric liquid crystal layer <u>A. Chanishvili</u> , K. Chubinidze, G. Petriashvili, N. Ponjavidze, Z. Wardosanidze, Ts. Zurabishvili
P 58	Synthesis and spectral non-linear optical properties of chosen BODIPY dyes in liquid crystals and thin films <u>P. Leśniak</u> , N. Rychłowiec, A. Szukalska, P. Wójcicka, A. Szukalski, J. Myśliwiec, P. Kula

P 59	MR-TADF liquid crystals: Towards self assembling host–guest mixtures showing narrowband emission from the mesophase F. Müller, J. A. Knöller, T. Matulaitis, J. M. dos Santos, A. Kumar Gupta, E. Zysman-Colman, S. Laschat
P 60	Cone-shaped emission from a dye-doped cholesteric liquid crystal layer N. Ponjavidze, A. Chanishvili, K. Chubinidze, G. Petriashvili, Z. Wardosanidze, Ts. Zurabishvili
P 61	Rod-like organic emitters in liquid crystals: Synthesis and characterization of novel dyes for luminescent LC materials N. Rychtówicz, P. Kula
P 62	From liquids to light: SPLASH device for tunable optical amplification and white light emission A. Szukalska, M. Czajkowski, J. Cybińska, J. Myśliwiec
P 63	Bis-thiophenes: Newly synthesized materials as laser dyes in liquid crystalline matrices P. Wójcicka, N. Rychtówicz, J. Karcz, P. Kula, A. Szukalska, J. Myśliwiec
9	Polymers, Elastomers, Colloids and Gels
P 64	Design, self-assembling and structural behaviour of multifunctional selectively deuterated reactive mesogens targeted for photo-active liquid crystalline elastomers M. Cigl, S. Mironov, O. Pasolini, D. Pociecha, A. Rešetič, V. Hamplova, V. Domenici, A. Bubnov
P 65	Polymer composites with Aligned MXene nanosheets for enhanced humidity-driven actuation S. Jeon, C. Lee, D. K. Yoon
P 66	Liquid crystal elastomers: Lowering actuation temperature through network optimization H. Kim, D. S. Kim
P 67	Structural properties of graphene oxide colloidal nematics M. Lanciotti, M. Hegde, T. Dingemans, H. Adenusi, F. Vita, O. Francescangeli
P 68	Stress-driven mechanochromic behaviors in cholesteric liquid crystal elastomer films embedded in PDMS H. J. Lee, S.-U. Kim, H. S. Oh, J. Hyun, Y.-S. Kim, D. S. Kim
P 69	Ferronematic in electric and magnetic fields: coupling mechanisms D. Miakota, V. Lacková, K. Kónyová, M. Jarošová, A. Juríková, P. Kopčanský, N. Tomašovičová
P 70	Shape change of liquid crystal elastomer films containing dual frequency liquid crystalline groups M. Sawada, K. Kaneko, K. Kaneko, T. Hanasaki
P 71	Synergistic effects of doping nanoparticles of conjugating polymer on electrical conduction properties of nematic liquid crystal D. Verma, A. Sinha
12	Polar and Ferroelectric Nematics - Confined Systems, Topology and Defects
P 72	Nanoconfinement-induced orientation change of azobenzene-based liquid crystalline block co-oligomer J. Kim, Y. Kang, H. Park, D.-G. Kang, Ch. Lee, D. K. Yoon
P 73	Dynamic engineering of photonic potentials through size tuning of toron photonic traps in liquid crystal microcavities J. Medrzycka, M. Muszyński, P. Kapuściński, P. Oliwa, E. Oton, P. Morawiak, R. Mazur, W. Piecek, B. Piętko, J. Szczytko
P 74	Fluctuating dynamics and structure of torons in confined chiral liquid crystals I. Nurlu, G. Poy, M. Nobili
13	Hydrodynamics and Microfluids
P 75	Dynamics of swimming algae in soap films A. Jarosik, A. Eremin
P 76	Magnetic dynamics in ferromagnetic liquid crystal emulsions C. Klopp, H. Nádas, D. Lisjak, A. Eremin
14	Applications of Liquid Crystals
P 77	Optimization of Via-Hole Processing for Performance Improvement of Liquid Crystal-Based Antenna I.-J. Bae, H. Yang, S. H. Yoon, M. Kim
P 78	Functional supramolecular materials based on bent-core amphiphiles N. Cruz-Navarro, C. Auría-Soro, A. Concellón, M. B. Ros
P 79	Fast-response liquid crystal device with three-electrode design and improved transmission for virtual reality (VR) applications W.-K. Choi, B.-K. Tseng, Ch.-H. Tung

P 80	A novel 3D hexagonal electrode design for blue phase liquid crystal display <u>W.-K. Choi</u> , Y.-Ch. Liao
P 81	Thermo and mechanical optical sensors based on cholesteric liquid crystals in cellulosic matrices A. Bracco, J.P. Santos, A.P. Almeida, J.P. Canejo, M.H. Godinho, A.P. Duarte, <u>P. L. Almeida</u>
P 82	Fabrication of homogeneous liquid crystal phase modulators <u>O. Niculescu</u> , T.D. Wilkinson
P 83	Hyperspectral imaging device based on temperature tunable cholesteric liquid crystal mirror <u>G. Petriashvili</u> , A. Chanishvili, K. Chubinidze, N. Ponjavidze
P 84	Unravelling the dynamics of liquid crystal-protein interactions: A multi-technique investigation for biosensing <u>A. Satya</u> , A. Bhattacharjee
P 85	An innovative cholesteric liquid crystal biosensor for label-free, high-sensitivity detection based on haze measurement <u>T.-H. Peng</u> , M.-J. Lee, W. Lee
P 86	Liquid crystal materials for water harvesting inspired in ingenious nature's designs F. Sousa, J. Malta, M. Silva, J. Santos, P. L. Almeida, M. H. Godinho, A. P. C. Almeida
P 87	Flexoelectric liquid crystal diffraction gratings for beam steering technologies <u>Q. Han</u> , S. J. Elston, W. Kamal, L. Xue, S. M. Morris
P 88	Liquid crystal polarization converter arrays for radial and azimuthal polarization conversion <u>M. Iqbal</u> , Ch. J. Hsu, Ch. Y. Huang
P 89	Impact of nanoparticle doping on the electrocaloric performance of ferroelectric liquid crystals E. Bsaibess, <u>D. P. Singh</u> , A. Slimani, B. Duponchel, S. Longuemart, V. Laux-Le Guyon
P 90	Flexoelectric liquid crystal diffraction gratings for beam steering technologies <u>Q. Han</u> , S. J. Elston, W. Kamal, L. Xue, S. M. Morris
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P 92	Liquid crystal polarization converter arrays for radial and azimuthal polarization conversion <u>M. Iqbal</u> , Ch. J. Hsu, Ch. Y. Huang
15	Other Topics Related to Liquid Crystals
P 93	Multilayer photo-aligned thin-film structure for polarizing photonics using water-soluble alignment material <u>F. Abbasi</u> , J. Beeckman, K. Neyts, I. Nys
P 94	Dynamic processes in oriented nematic liquid crystal systems during phase transitions <u>L. Bezhanova</u>
P 95	Attraction and coalescence of water droplets on porous and microstructured liquid-crystal-infused surfaces <u>F. Ferš</u> , X. Wang, U. Tkalec