Emerging Liquid Crystal Technologies XV

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Contents

SESSION 1  LIQUID CRYSTAL LENSES AND MICROLENS ARRAYS

11303 04  Modeling liquid crystal lenses (Invited Paper) [11303-3]

SESSION 2  PHASE AND SPATIAL LIGHT MODULATORS

11303 08  Finite element method for 3D optical modeling of liquid crystal on silicon spatial light modulator [11303-7]

11303 0B  Controlling light with hyperbolic metamaterial director profiles [11303-10]

SESSION 3  POLYMER AND LIQUID CRYSTAL COMPOSITES

11303 0C  Simple-structure thermoresponsive PNLCs for smart windows (Invited Paper) [11303-11]

SESSION 4  PHOTO-PATTERNING AND PHOTOALIGNMENT

11303 0F  Shaping and positioning of topological defects in nematic liquid crystal cells equipped with patterned electrodes (Invited Paper) [11303-14]

11303 0I  Novel photo-vertical alignment materials for low pre-tilt angle and low temperature cure process application [11303-17]

11303 0J  Bistable liquid crystal phase grating device for smart window and window display applications (Invited Paper) [11303-18]

SESSION 5  LASERS, FILTERS, AND OTHER OPTICAL COMPONENTS

11303 0K  Electric field tuning of ferroelectric liquid crystal microlaser (Invited Paper) [11303-19]

11303 0L  Influence of liquid crystal molecular stacking structure on in-plane, out-of-plane retardation switching (Invited Paper) [11303-20]
SESSION 6  DIFFRACTIVE, LIGHT-FIELD, CHIRAL, AND HOLOGRAPHIC OPTICAL ELEMENTS

11303 0M  Improved terahertz phase sensing by using liquid crystal phase shifter (Invited Paper) [11303-21]

11303 0N  Advanced antenna design using radio frequency liquid crystals and LCD manufacturing (Invited Paper) [11303-22]

11303 0O  Near zero laser speckle liquid crystal device (Invited Paper) [11303-23]

11303 0S  Tunable liquid crystal beam steering device based on Pancharatnam phase [11303-27]

POSTER SESSION

11303 0V  All-optical cryptography through metasurface based on phase changeable nanoantenna [11303-30]

11303 0W  Mechano-thermo-chromic device with supersaturated salt hydrate crystal for next-generation smart window applications [11303-31]

11303 0X  Fabrication of self-assembled nanoparticle cluster array using the surface affinity difference of isotropic droplets in nematic medium [11303-32]

11303 12  Enhanced flexoelectric anisotropy of nematic liquid crystal with hydrogen bonded dimer [11303-37]
The aim of the International Liquid Crystal Society is to unite scientists, engineers and students working in the broad field of liquid crystals. Event List. On this page we briefly summarize all upcoming events that we are aware of that may be of interest to liquid crystal researchers, around the world. Only title, date and location are provided, together with a link to the event homepage. You are encouraged to inform us about additional events that you believe should be included here. 2020. March. 24 - 27: 47th German Liquid Crystal Conference, Magdeburg, Germany. April. 6 - 8: the British Liquid Crystal Conference, Aberdeen, Scotland. July. 26 - 31: 28th International Liquid Crystal Conference - ILCC2020, Faculty of Sciences of the U PROCEEDINGS VOLUME 11303. Emerging Liquid Crystal Technologies XV. Editor(s): Liang-Chy Chien; Dirk J. Broer. For the purchase of this volume in printed format, please visit Proceedings.com. Liquid crystal based lenses with variable focal length are of broad interest due to their wide area of applications ranging from techniques to medicine. We present the modeling approaches and results for a couple of tunable liquid crystal based lenses, namely: curved electrode lens, lens with hole patterned electrode and high resistivity layer, lens based on modulated anchoring and contact lens. We also discuss the current challenges associated with the modeling of LC lenses and possible ways to overcome them. E. Lueder, Liquid Crystal Displays (John Wiley, Chichester, 2001)Google Scholar. 3. D.K. Yang, S.T. Wu, Fundamentals of Liquid Crystal Devices (John Wiley, Chichester, 2006)CrossRefGoogle Scholar. 4. P. Yeh, C. Gu, Optics of Liquid Crystal Displays (John Wiley, Chichester, 1999)Google Scholar. 5. M. Schadt, W. Helfrich, Voltage-dependent optical activity of a twisted nematic liquid crystal. Appl. Phys. Cheng KT. (2015) Liquid Crystal Display Present Status and Emerging Technology. In: Lee CC. (eds) The Current Trends of Optics and Photonics. Topics in Applied Physics, vol 129. 10941, Emerging Liquid Crystal Technologies XIV. KEYWORDS: Thin films, Refractive index, Femtosecond phenomena, Nanoparticles, X-rays, Light scattering, Magnetism, Picosecond phenomena, Liquids, Absorption. Read Abstract +. Magnetic fluids or ferrofluids (FF) are colloidal suspension of magnetic nanoparticles in a liquid carrier. When a material is illuminated with a high-intensity light, typically nanosecond, picosecond and femtosecond pulsed laser beam, its refractive index n2 and absorption coefficient β depend on the light intensity I. The Z-Scan (ZS) nonlinear optical and the Small-Angle X Use the Advanced Search Close. Emerging Liquid Crystal Technologies XV. View all articles. Journal Information.Â by SPIE-Intl Soc Optical Eng. in Emerging Liquid Crystal Technologies XV. Emerging Liquid Crystal Technologies XV, Volume 11303; doi:10.1117/12.2546233. Show/hide abstract. The publisher has not yet granted permission to display this abstract.