

Selected Papers On Liquid Crystals For Optics

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Jacobs SD. Selected Papers on Liquid Crystals for Optics. Washington, DC: SPIE Optical Engineering Press Bellingham; 1992.

Numerical Recipes: The Art of Scientific Computing. This effect enables the tuning of optical properties of opals as a prototype tunable photonic crystal. This phenomenon can also be used as a measurement method for the refractive index. © 1999 American Institute of Physics. View. Show abstract. Electrically controlled optical bandgap in a twisted photonic liquid crystal. Article. Jun 2011. An optical 1x3 multiplexer in addition with polymer optical fiber allows the application of three different wavelengths to the device under test without setup modification: 495 nm, 650 nm and 850 nm.... In this work, a novel structure for optical characterization is proposed. An optical 1x3 multiplexer in addition with polymer optical fiber allows the application of three different wavelengths to the device under test without setup modification: 495 nm, 650 nm and 850 nm. Insertion losses less than 4 dB, an isolation better than 23 dB and a switching time better than 30 ms have been measured at 650 nm.

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High-Birefringence Nematic Liquid Crystals Mixtures (HBNLCM) recently developed in the Military University of Technology (Poland) are presented in this paper. Dielectric, refractometric, viscosimetric and elastomeric characteristic were determined. The properties are discussed in terms of their applicability to electro-optical devices. Applying HBNLCM of LCM to space mission (Phobos Ground) applications for a space-borne laser rangefinder was developed, manufactured and tested under cooperation between Military University of Technology (MUT) in Poland and Vavilov State Optical Institute (Vavil