

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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We have infiltrated photonic crystal fibers with liquid crystals, thus creating, to our knowledge for the first time, what we call Liquid Crystal Photonic BandGap (LCPBG) fibers. We have demonstrated thermal, electrical and all-optical tunability of the optical transmission properties of these fibers, thus providing broadband spectral switching and filtering functionalities which may be operated linearly as well as nonlinearly. This paper gives a basic overview of the optics and the materials involved in LCPBG fibers, in particular "tuning in" on how the optical transmission properties of these fibers depend on various liquid crystal aspects, such as mesomorphism, optical and electrical parameters, and the alignment of liquid crystals in cylindrical geometry. Selected type: Hardcover. Quantity: \$212.25. Basic physics and optical properties of liquid crystals. Nematics, as well as other mesophases such as smectics, ferroelectrics, and cholesterics. Fundamentals of liquid crystals for electro-optics, and display and non-display related applications. Various theoretical and computational techniques used in describing optical propagation through liquid crystals and anisotropic materials. Nonlinear optics of liquid crystals, including updated literature reviews and fundamental discussions. Photo-switchable chiral liquid crystal with optical tristability enabled by a photoresponsive azo-chiral dopant. Yu-Cheng Hsiao, Kuan-Chung Huang, and Wei Lee Opt. Express 25(3) 2687-2693 (2017). F. Castles, S. M. Morris, and H. J. Coles, "Flexoelectro-optic properties of chiral nematic liquid crystals in the uniform standing helix configuration," Phys. Rev. E Stat.