Special Issue

Light Beams in Liquid Crystals

Message from the Guest Editors

This Issue is intended to collect current research on the propagation of optical wavepackets in liquid crystals, in either linear or nonlinear regimes. The papers submitted to this Issue should deal with the physics, mathematics, engineering, or material science involved with the propagation and interaction of optical wavepackets in liquid crystals, that is: · Structured light beam propagation and evolution;· Optical pulse propagation and evolution;· Nonlinear-nonlocal optics/photonics;· Synergy and competition of nonlinear optical responses;· Beam self-localization and solitary waves;· Pancharatnam–Berry phase and polarization evolution;· Random lasing;· Electro-optical, acousto-optical, thermo-optical, magneto-optical effects with light beams;· Light modulation/switching;· Spontaneous/stimulated symmetry breaking;· Spatio-temporal dynamics;· Guided-wave optics and applications;· Light-induced phase transformations;· Liquid crystal light valves.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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