Structure of Organic Optical Couplers

Microcrystalline organic optical components are crucial to construct miniature devices. However, the design and fabrication of such organic photonic components with multifunctional capabilities remains ...

This thesis involved the design, fabrication, modeling, and optical characterization of directional couplers fabricated from optically nonlinear organic polymers.

In this section, we discuss the current high-mobility organic semiconductors from the standpoint of molecular structure and elucidate the relationship among molecular structures, packing ...

In this review, progress in organic magnetoelectric and optomagnetic couplings is presented, and the mechanisms behind the phenomena are also briefly summarized.

The article reviews the current understanding of the physical mechanisms that determine the (opto)electronic properties of high-performance organic materials. The focus of the review is on ...

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We applied a line-shaped band of laser illumination to both the unilaminar and bilaminar configurations (insets of Fig. 3b) to investigate the influence of optical coupling.

Abstract The intimate connection between stacking modes and optoelectronic properties of organic conjugated materials has been discussed from the viewpoints of developing microscopic ...

This review comprehensively examines the critical intermolecular interactions between organic dyes and their impact on optical properties. We explore the range of changes in absorption ...

In this study, we propose three types of structure: an SU-8/Cytop grating coupler, a metal grating coupler, and a modified metal grating coupler with a metal mirror and an SU-8/Cytop ...

This review has systematically summarized recent advances in photodetectors coupled with advanced optical structures, including optical waveguides, SPR, optical microcavities, gratings, ...

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