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研究興趣: 光學元件開發 鏡片光學設計

開課學科: 普通物理、光學、生理光學、近代光學、普通物理實驗、光學實驗

期刊論文 (五年內)

1. Lee, Chia-Rong; Lin, Jia-De; Mo, Ting-Shan; Horng, Chi-Ting; Sun, Han-Ying; Huang, Shuan-Yu (2015, Apr). Performance evolution of color cone lasing emissions in dye-doped cholesteric liquid crystals at different fabrication conditions. *Optics Express*.
2. Jia-De Lin, Shuan-Yu Huang, Hong-Sheng Wang, Shih-Hung Lin, Ting-Shan Mo, Chi-Ting Horng, Hui-Chen Yeh, Lin-Jer Chen, Hong-Lin Lin, and Chia-Rong Lee (2014, Sep). Spatially tunable photonic bandgap of wide spectral range and lasing emission based on a blue phase wedge cell. *OPTICS EXPRESS*.
3. Bing-Yau Huang, Kai-Yu Yu, Shuan-Yu Huang, and Chie-Tong Kuo (2014, Jan). The investigation of the two-dimensional surface relief grating on dyedoped polymer film. *OPTICAL MATERIALS EXPRESS*, 4(2), 308-314.
4. Lin-Jer Chen; Jia-De Lin; Shuan-Yu Huang; Ting-Shan Mo; Chia-Rong Lee (2013, Sep). Thermally and Electrically Tunable Lasing Emission and Amplified

Spontaneous Emission in a Composite of Inorganic Quantum Dot Nanocrystals and Organic Cholesteric Liquid Crystals. *Adv. Opt. Mater.*, 1, 637–643.

5. Jia-De Lin; Meng-Hung Hsieh; Guan-Jhong Wei; Ting-Shan Mo; Shuan-Yu Huang; Chia-Rong Lee (2013, Jun). Optically tunable/switchable omnidirectionally spherical microlaser based on a dye-doped cholesteric liquid crystal microdroplet with an azo-chiral dopant. *Opt. Express*, 21, 15765-15776.

6. Shuan-Yu Huang, He-Yi Zheng, Kai-Yu Yu, Bing-Yau Huang, Hong-Ren Lin, Chia-Rong Lee, and Chie-Tong Kuo (2012, Dec). Electrically tunable prism grating based on a liquid crystal film with a photoconductive layer. *OPTICAL MATERIALS EXPRESS*, 2(12), 1791-1796.

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8. C.-R. Lee · S.-C. Huang · S.-H. Lin · Z.-Y. Lin · (2011, Nov). Distributed feedback laser with optoelectronic tunability. *Applied Physics B*, 105, 689-695..

9. Hui-Chen Yeh, Yi-Chieh Kuo, Shih-Hung Lin, Jia-De Lin, 2 Ting-Shan Mo, and Shuan-Yu Huang (2011, Mar). Optically controllable and focus-tunable Fresnel lens. *Optics Letter*, 36, 1311-1313.

10. Chia-Rong Lee, Jia-De Lin, Bo-Yuang Huang, Shih-Hung Lin, Ting-Shan Mo, Shuan-Yu Huang, Chie-Tong Kuo, and Hui-Chen Yeh (2011, Jan). Electrically controllable liquid crystal random lasers below the Freedericksz transition threshold. *Optics Express*, 19, 2391-2400.

11. Chia-Rong Lee, Jia-De Lin, 1 Bo-Yuang Huang, 1 Ting-Shan Mo, and Shuan-Yu Huang (2010, Dec). All-optically controllable random laser based on a dyedoped liquid crystal added with a photoisomerizable dye. *OPTICS EXPRESS*, 25896-25905.

12. Shuan-Yu Huang, Bing-Yau Huang, Wen-Chi Hung, Kai-Yu Yu, Wen-Shou Cheng, Chie-Tong Kuo* (2010, Oct). Temperature and orientation dependence of surface relief gratings based on dye-doped polymer film with the interface of nematic liquid crystals. *Optics Communication*, 284, 934-937.