



Reflection spectra of photonic structures under magnetic fields with varying direction with respect to the direction of light.

ADVANTAGES

The novel aspects of their invention are:

- ▶ The diffraction properties of the structure are strongly dependent on the field direction.
- ▶ A wide range of tuning in the diffraction spectrum can be achieved.
- ▶ Instantaneous tuning and fully reversible diffraction properties.
- ▶ Aid the creation of photonic patterns under magnetic fields with non-uniform field directions.

SUGGESTED USES

- ▶ Structural colors for presentation and displays
- ▶ Pigments, dyes and adaptive camouflage fabrics
- ▶ Optical switches
- ▶ Anti-reflective or low reflective surfaces

RELATED MATERIALS

- ▶ [Magnetic Assembly and Field Tuning of Ellipsoidal Nanoparticle Based Colloidal Photonic Crystals](#)

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