

Photonic Structures Inspired By Nature

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Self-assembly techniques, combined with scalable nanofabrication methods, were used to create complex artificial photonic structures inspired by those found in nature. In particular, the colour effect of a *Papilio* butterfly was mimicked and, by variation of its design motive, enhanced.

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Photonic Structures in Nature and Bio-mimetic Materials. Nature's most vivid colours rely on ordered, quasi-ordered, and disordered structures with lattice constants or scattering elements whose sizes are on the order of the wavelength of visible radiation. Knowledge of the interplay between the morphology, composition, and optical appearance of biological photonic systems can provide inspiration for novel artificial photonic materials.

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