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Unlike most natural colours that are based on pigment absorption, the striking iridescent and intense colouration of many butterflies, birds or beetles stems from the interaction of light with periodic sub-micrometer surface or volume patterns, so called "photonic structures". These "structural colours" are increasingly well understood, but they are difficult to create artificially and exploit technologically.

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Self-assembly techniques, combined with scaleable 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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