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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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