

NANOPATTERNS WITH A (CHIRAL) TWIST

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Soft materials self-assemble into complex functional nanopatterns as they contain the chemical information necessary to 'know' what to do. What happens when self-assembly takes place on an interface that is patterned and periodic? And, what if the periodicity of the self-assembled structure is incommensurate with the underlying interface, as is the case with many optoelectronic devices and integrated circuits that integrate different materials? To lower the global energy, self-assembled 2D lattices can get frustrated, or more interestingly, they 'find' other twisty means.

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