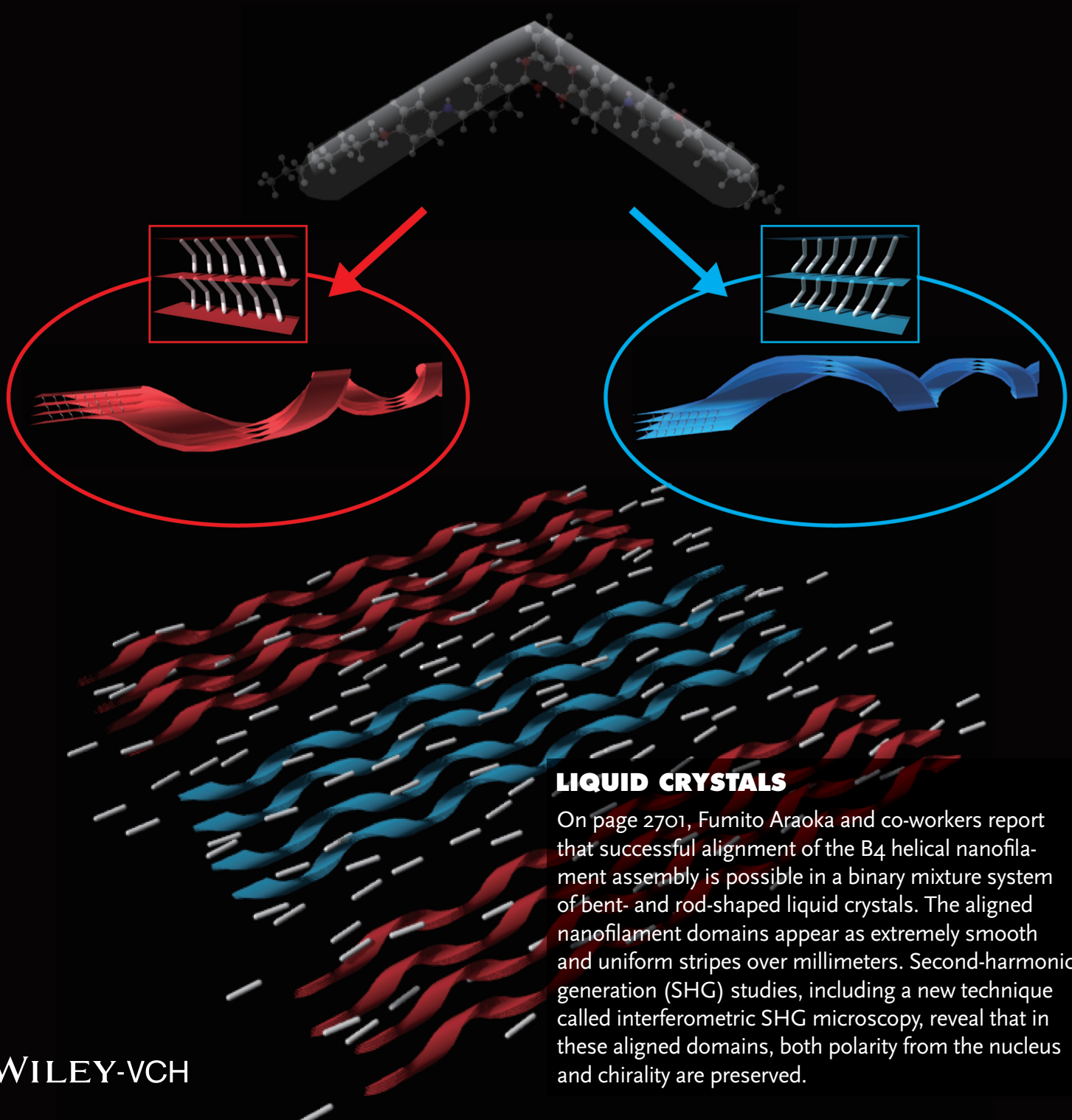
ADVANCED FUNCTIONAL MATERIALS



LIQUID CRYSTALS

On page 2701, Fumito Araoka and co-workers report that successful alignment of the B4 helical nanofilament assembly is possible in a binary mixture system of bent- and rod-shaped liquid crystals. The aligned nanofilament domains appear as extremely smooth and uniform stripes over millimeters. Second-harmonic generation (SHG) studies, including a new technique called interferometric SHG microscopy, reveal that in these aligned domains, both polarity from the nucleus and chirality are preserved.

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