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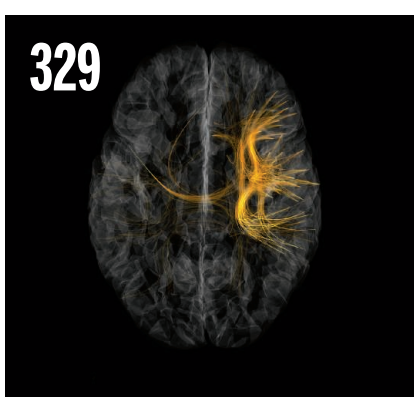

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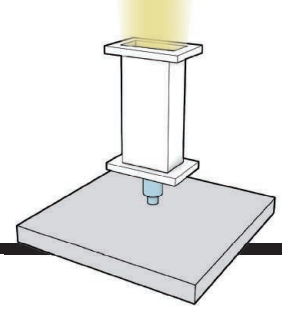

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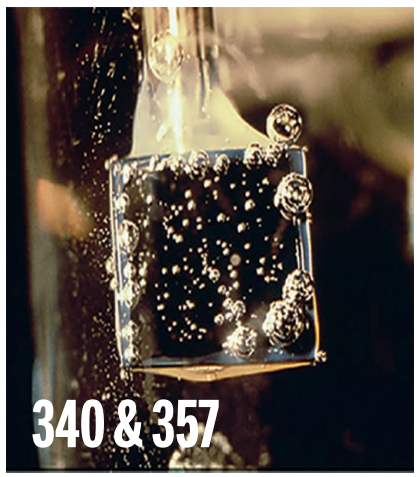

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ON THE COVER

Illustration of woven molecular fabric. Interlacing threads to create woven patterns is among the oldest methods of making fabric, but until now, this technique has not been duplicated in complex chemical structures. Liu *et al.* used threads made from organic molecules linked together by strong covalent bonds to weave a three-dimensional covalent organic framework with unusual dynamical and mechanical properties. This molecular weaving method will enable the production of materials with increased precision and functionality. See pages 336 and 365. *Illustration: C. Bickel*/Science

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