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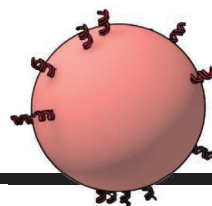
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Artistically rendered segment of a synthetic macromolecular ladder scaffold, inspired by a natural product structure, that unzips through ring-opening in response to mechanical force. The ensuing

mechanochemical metamorphosis of the insulating poly ladderene structure into semiconducting polyacetylene nanowires rapidly transforms the material's intrinsic properties and functions. See page 475.
Illustration: Valerie Altounian/Science

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