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ON THE COVER

Heat from two carbon strips surrounding an oxide mixture sinters the particles into a dense ceramic composite. Conventional ceramic sintering techniques are limited by long processing times and poor compositional control. To overcome these constraints, an ultrafast high-temperature sintering method has been developed to fabricate ceramic materials from oxide precursors in ~10 seconds, enabling rapid screening and discovery of high-performance ceramics. See page 521. Image: Jiaqi Dai and Liangbing Hu

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