

Accepted Manuscript

Texture Mediated Grain Boundary Network Design in Three Dimensions

Oliver K. Johnson, Christopher A. Schuh

PII: S0167-6636(17)30625-7
DOI: [10.1016/j.mechmat.2017.12.001](https://doi.org/10.1016/j.mechmat.2017.12.001)
Reference: MECMAT 2825



To appear in: *Mechanics of Materials*

Received date: 7 September 2017
Revised date: 1 December 2017
Accepted date: 7 December 2017

Please cite this article as: Oliver K. Johnson, Christopher A. Schuh, Texture Mediated Grain Boundary Network Design in Three Dimensions, *Mechanics of Materials* (2017), doi: [10.1016/j.mechmat.2017.12.001](https://doi.org/10.1016/j.mechmat.2017.12.001)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Theory developed to design and optimize grain boundary network structure for mechanical and kinetic properties
- Envelope of physically realizable properties combinations computed for yield strength, elastic compliance, and grain boundary network diffusivity in polycrystals
- Optimal microstructure predicted to be stronger and more resistant to electromigration

ACCEPTED MANUSCRIPT

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات