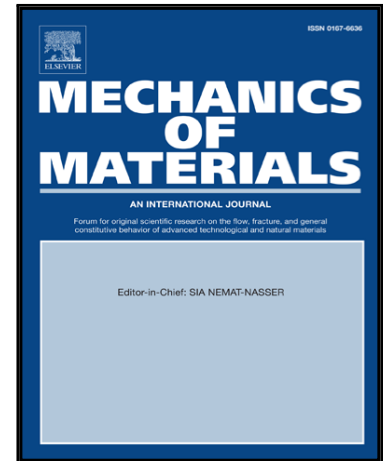


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Texture Mediated Grain Boundary Network Design in Three Dimensions

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**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

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