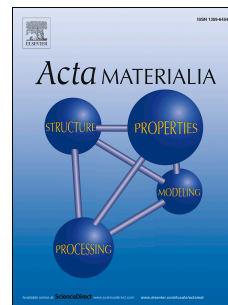


# Accepted Manuscript

Shock engineering the additive manufactured graphene-metal nanocomposite with high density nanotwins and dislocations for ultra-stable mechanical properties

Dong Lin, Maithilee Motlag, Mojib Saei, Shengyu Jin, Raheleh Mohammad Rahimi, David Bahr, Gary J. Cheng



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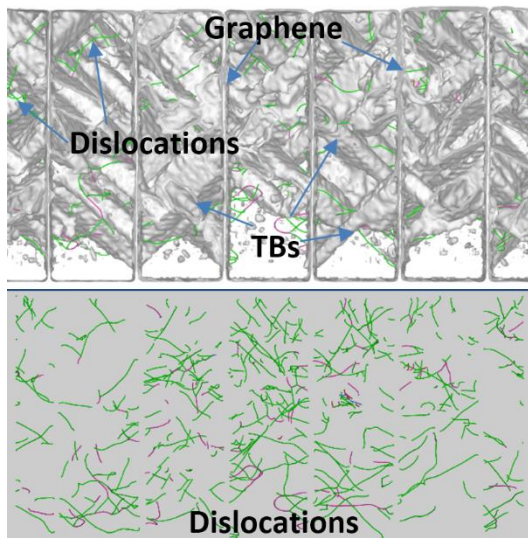
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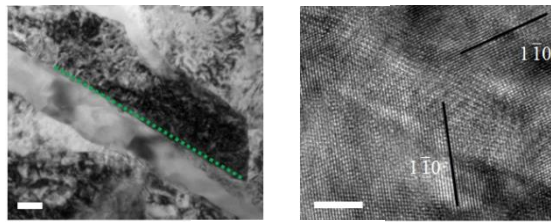
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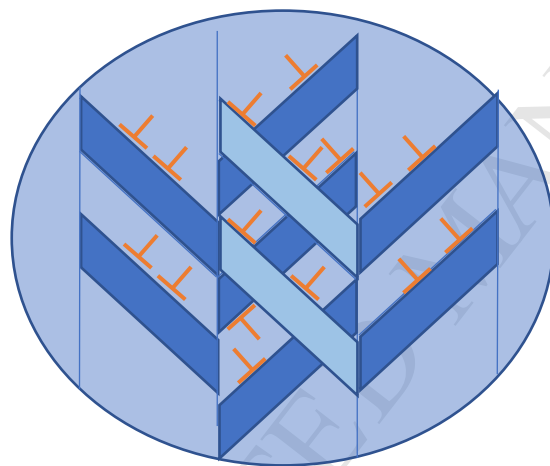
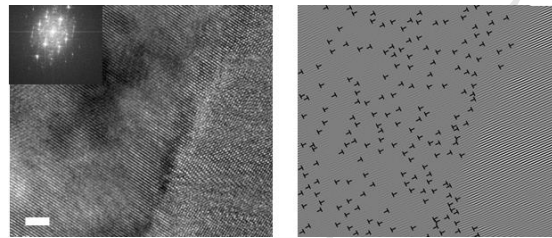
Structure



Nanotwins

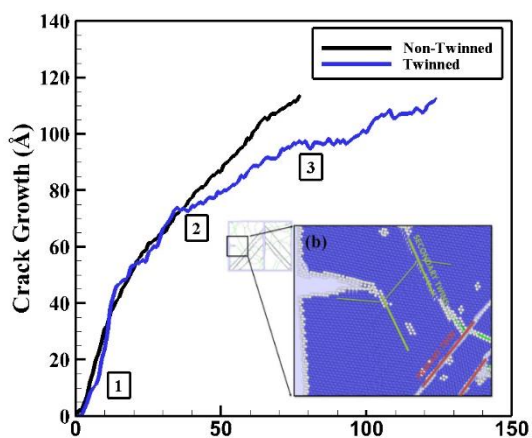


Dislocation

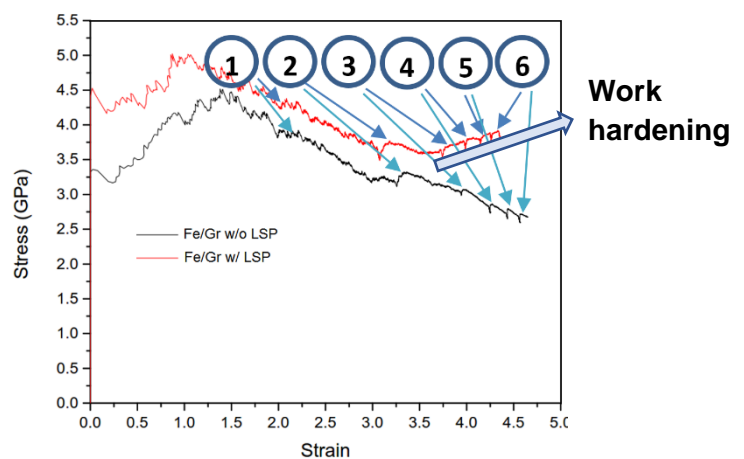


**Hybrid Nanostructured  
2D Materials/Metal  
Composite**

Property



Crack propagation



Cyclic indentation stress/strain

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