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Temperature dependent strain hardening and fracture behavior of TWIP steel

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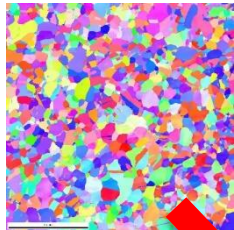
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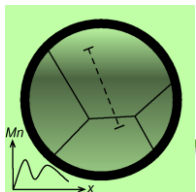
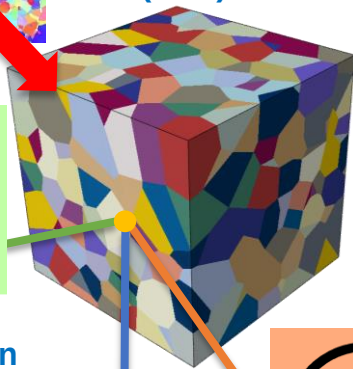
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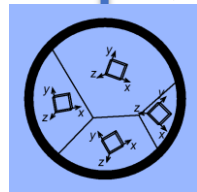
Microstructure (EBSD)



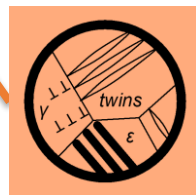
Representative
Volume Element
(RVE)



Chemical
Composition
(SFE)



Orientations

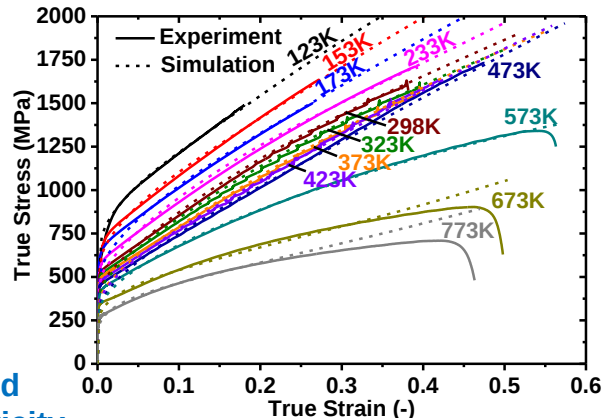


TWIP/TRIP Constitutive
Material Model

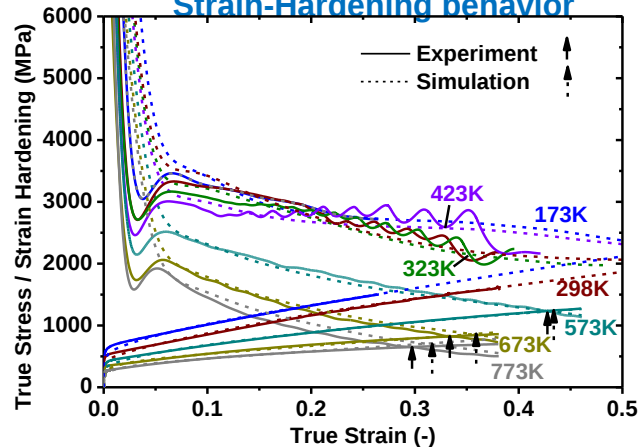


FFT based
crystal plasticity
simulations

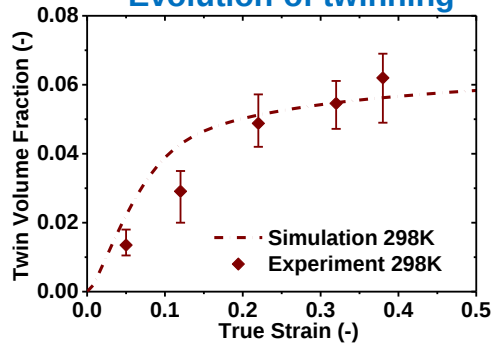
Stress-strain behavior



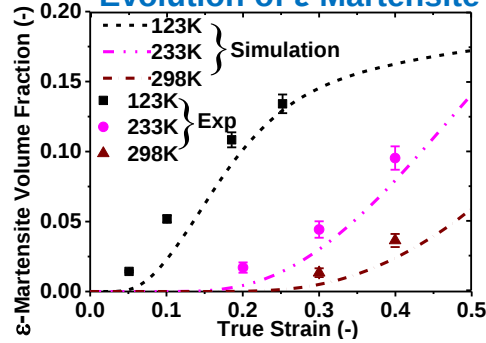
Strain-Hardening behavior



Evolution of twinning



Evolution of ϵ -Martensite



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