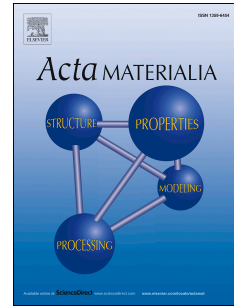


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Micromechanistic study of textured multiphase polycrystals for resisting cold dwell fatigue

Zhen Zhan



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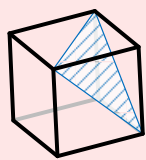
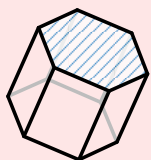
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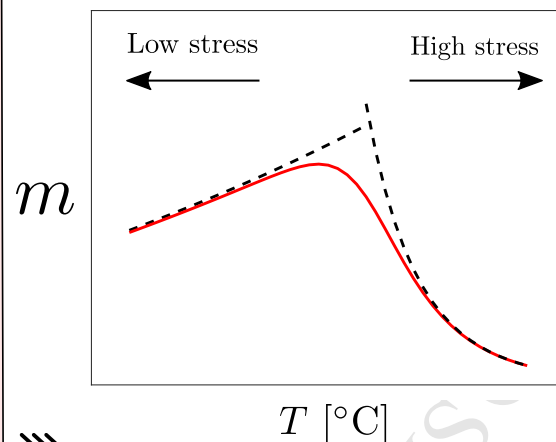
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Single Crystal

HCP α phase BCC β phase



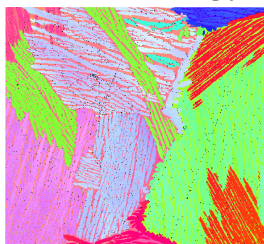
Micro deformation mechanism



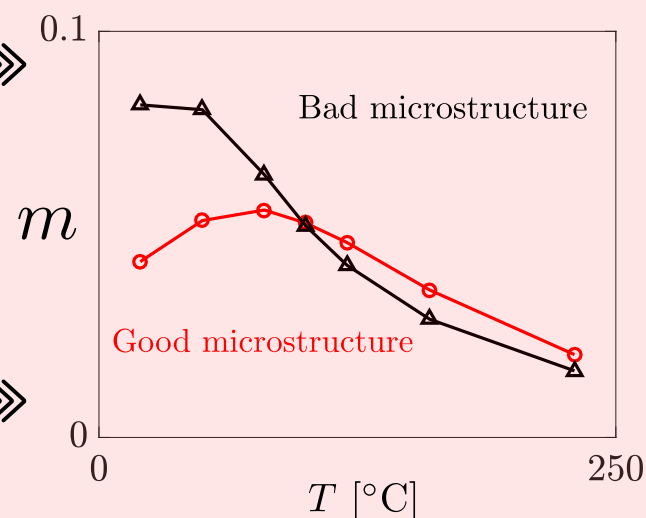
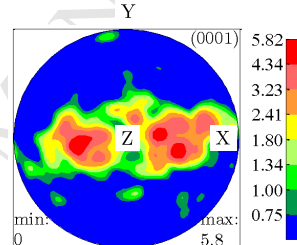
Component

Material processing route

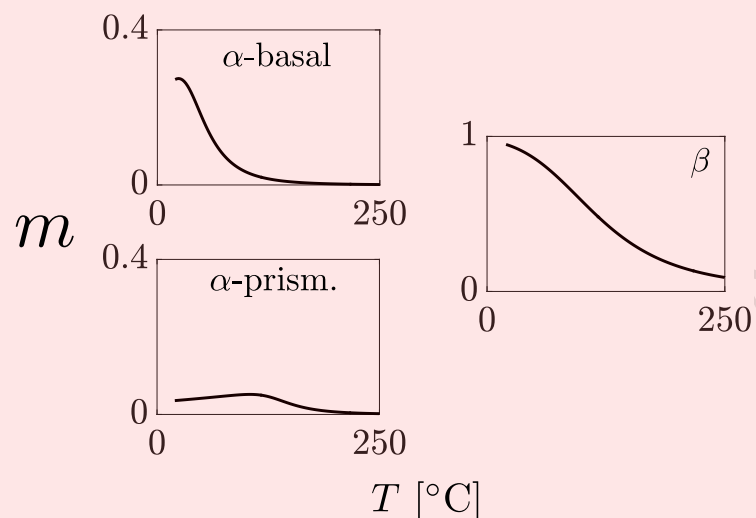
Morphology



Texture

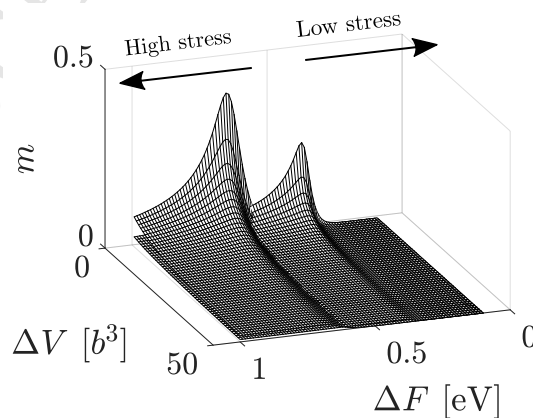


Structural strain rate sensitivity



Material intrinsic strain rate sensitivity

Stress dependent peak shifting



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