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Structure response characteristics and surface nanocrystallization mechanism of alpha phase in Ti-6Al-4V subjected to high energy shot peening

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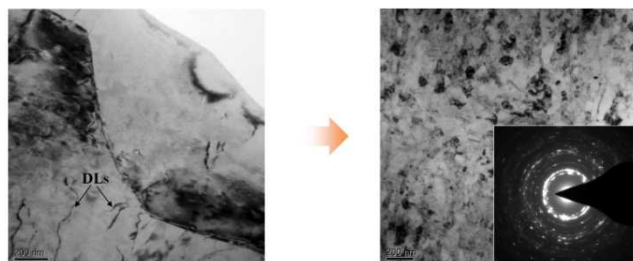
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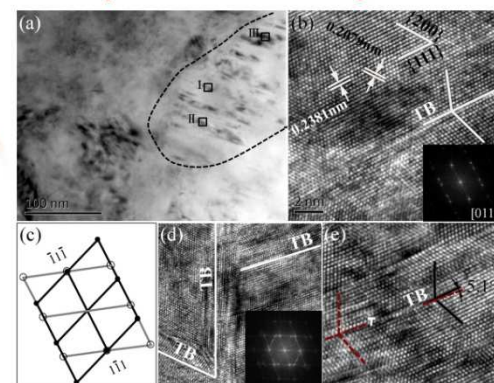
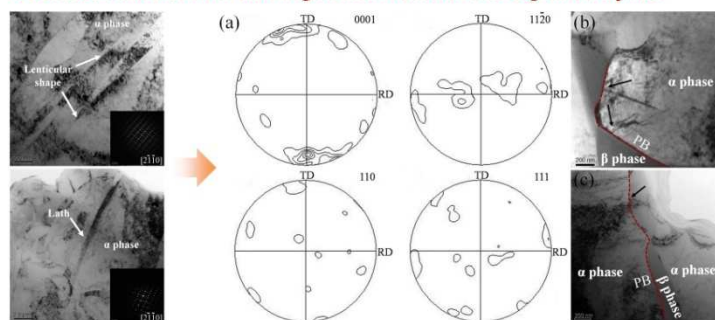
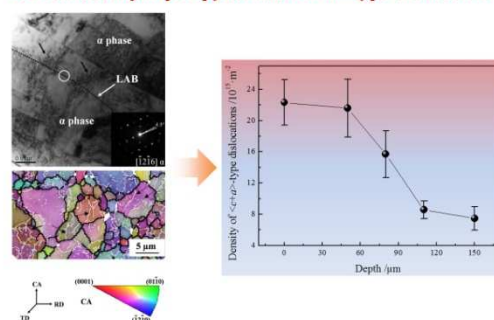
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Graphical Abstract

◆ Nanocrystalline surface induced by HESP



◆ Unusual phase transformation from hcp to fcc structure

◆ Reduced contribution of twinning to deformation of coarse-grained α phase◆ Dramatical jump of pyramidal $\langle c+a \rangle$ -type dislocations

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