

Deformation twinning in nanocrystalline materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Revisiting the intra-granular dislocation extension model for flow stress in nanocrystalline metals. Philosophical Magazine Letters, 2012, 92, 111-121.	0.5	4
2	Correlation between defect structure and mechanical properties of nanocrystalline materials. , 2012, , 167-230.		1
3	Applied stress controls the production of nano-twins in coarse-grained metals. Applied Physics Letters, 2012, 101, 231903.	1.5	23
4	Screw-rotation twinning through helical movement of triple-partials. Applied Physics Letters, 2012, 101, 121901.	1.5	14
5	Atomistic investigation of scratching-induced deformation twinning in nanocrystalline Cu. Journal of Applied Physics, 2012, 112, .	1.1	21
6	Grain Boundary Rotations in Solids. Physical Review Letters, 2012, 109, 175501.	2.9	29
7	Grain-size-dependent zero-strain mechanism for twinning in copper. Physical Review B, 2012, 86, .	1.1	35
8	Layer thickness dependent tensile deformation mechanisms in sub-10 ⁶ nm multilayer nanowires. Journal of Applied Physics, 2012, 111, .	1.1	21
9	NANOSCALE DEFORMATION ANALYSIS OF TWIN BOUNDARY DISLOCATIONS IN NANOCRYSTALLINE ALUMINUM. Modern Physics Letters B, 2012, 26, 1250181.	1.0	0
10	Investigation of grain boundary activity in nanocrystalline Al under an indenter by using a multiscale method. Chinese Physics B, 2012, 21, 083101.	0.7	4
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12	Shock response of nanotwinned copper from large-scale molecular dynamics simulations. Physical Review B, 2012, 86, .	1.1	34
13	In situ observation of structural rearrangement of a Cu nanotwin particle. Micro and Nano Letters, 2012, 7, 676.	0.6	2
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15	<i>In situ</i> TEM study of mechanical behaviour of twinned nanoparticles. Philosophical Magazine, 2012, 92, 4437-4453.	0.7	24
16	Quantitative Evidence of Crossover toward Partial Dislocation Mediated Plasticity in Copper Single Crystalline Nanowires. Nano Letters, 2012, 12, 4045-4049.	4.5	108
17	Development of ultrahigh strength and high ductility in nanostructured iron alloys with lattice softening and nanotwins. Scripta Materialia, 2012, 67, 511-514.	2.6	24
18	Effect of temperature on the processing of a magnesium alloy by high-pressure torsion. Journal of Materials Science, 2012, 47, 7796-7806.	1.7	34

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20	Nanotwins only. <i>Nature Nanotechnology</i> , 2012, 7, 551-552.	15.6	5
21	Determining the minimum grain size in severe plastic deformation process via first-principles calculations. <i>Acta Materialia</i> , 2012, 60, 4506-4513.	3.8	35
22	Mechanical properties and nanostructures in a duplex stainless steel subjected to equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 551, 154-159.	2.6	42
24	Effect of stacking fault and temperature on deformation behaviors of nanocrystalline Mg. <i>Journal of Applied Physics</i> , 2012, 112, 054322.	1.1	26
25	Deformation twinning mechanisms from bimetal interfaces as revealed by in situ straining in the TEM. <i>Acta Materialia</i> , 2012, 60, 5858-5866.	3.8	94
26	Microstructure and strengthening mechanisms in Cu/Fe multilayers. <i>Acta Materialia</i> , 2012, 60, 6312-6321.	3.8	104
27	Deformation twins in nanocrystalline body-centered cubic Mo as predicted by molecular dynamics simulations. <i>Acta Materialia</i> , 2012, 60, 6421-6428.	3.8	36
28	Electrodeposition of nanocrystalline Ni-W coatings strengthened by ultrafine alumina particles. <i>Surface and Coatings Technology</i> , 2012, 211, 62-66.	2.2	71
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41	Enhanced strength-ductility synergy in nanostructured Cu and Cu-Al alloys processed by high-pressure torsion and subsequent annealing. <i>Scripta Materialia</i> , 2012, 66, 227-230.	2.6	140
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131	Mechanical properties and precipitate behavior of Mg-9Al-1Zn alloy processed by equal-channel angular pressing and aging. <i>Journal of Alloys and Compounds</i> , 2014, 594, 182-188.	2.8	46
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494	Revealing the local lattice strains and strengthening mechanisms of Ti alloys. <i>Computational Materials Science</i> , 2018, 152, 169-177.	1.4	29
495	Evolution of twinning systems and variants during sequential twinning in cryo-rolled titanium. <i>International Journal of Plasticity</i> , 2019, 112, 52-67.	4.1	54
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497	Phase transformation induced plasticity in high-strength hexagonal close packed Co with stacking faults. <i>Scripta Materialia</i> , 2019, 173, 32-36.	2.6	23
498	A eutectic high-entropy alloy with good high-temperature strength-plasticity balance. <i>Materials Research Letters</i> , 2019, 7, 460-466.	4.1	23
499	Study of uniaxial deformation behavior of 50nm-thick thin film of gold single crystal using in situ X-ray pole figure measurements. <i>Surface and Coatings Technology</i> , 2019, 377, 124878.	2.2	3
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511	Gradient structure regulated plastic deformation mechanisms in polycrystalline nanotwinned copper. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 365304.	1.3	10
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