

Indranil Basu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,359
citations

516710

16
h-index

839539

18
g-index

24
all docs

24
docs citations

24
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Triggering rare earth texture modification in magnesium alloys by addition of zinc and zirconium. <i>Acta Materialia</i> , 2014, 67, 116-133.	7.9	237
2	Twin recrystallization mechanisms in magnesium-rare earth alloys. <i>Acta Materialia</i> , 2015, 96, 111-132.	7.9	193
3	Shear band-related recrystallization and grain growth in two rolled magnesium-rare earth alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 579, 50-56.	5.6	141
4	Strengthening mechanisms in high entropy alloys: Fundamental issues. <i>Scripta Materialia</i> , 2020, 187, 148-156.	5.2	131
5	The role of atomic scale segregation in designing highly ductile magnesium alloys. <i>Acta Materialia</i> , 2016, 116, 77-94.	7.9	126
6	BCC-FCC interfacial effects on plasticity and strengthening mechanisms in high entropy alloys. <i>Acta Materialia</i> , 2018, 157, 83-95.	7.9	113
7	Local Stress States and Microstructural Damage Response Associated with Deformation Twins in Hexagonal Close Packed Metals. <i>Crystals</i> , 2018, 8, 1.	2.2	81
8	Size dependent plasticity and damage response in multiphase body centered cubic high entropy alloys. <i>Acta Materialia</i> , 2018, 150, 104-116.	7.9	69
9	Competitive twinning behavior in magnesium and its impact on recrystallization and texture formation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 232-244.	5.6	37
10	Size effects on plasticity in high-entropy alloys. <i>Journal of Materials Research</i> , 2018, 33, 3055-3076.	2.6	37
11	Effect of pulse scheme on the microstructural evolution, residual stress state and mechanical performance of resistance spot welded DP1000-GI steel. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 649-658.	3.1	31
12	Twinning effects in deformed and annealed magnesium-neodymium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 647, 91-104.	5.6	27
13	Stacking-fault mediated plasticity and strengthening in lean, rare-earth free magnesium alloys. <i>Acta Materialia</i> , 2021, 211, 116877.	7.9	26
14	Segregation-driven exceptional twin-boundary strengthening in lean Mg-Zn-Ca alloys. <i>Acta Materialia</i> , 2022, 229, 117746.	7.9	25
15	Measurement of spatial stress gradients near grain boundaries. <i>Scripta Materialia</i> , 2017, 136, 11-14.	5.2	19
16	Determination of grain boundary mobility during recrystallization by statistical evaluation of electron backscatter diffraction measurements. <i>Materials Characterization</i> , 2016, 117, 99-112.	4.4	16
17	High Entropy Alloys: Ready to Set Sail?. <i>Metals</i> , 2020, 10, 194.	2.3	16
18	Hierarchical Twinning Induced Texture Weakening in Lean Magnesium Alloys. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	14

#	ARTICLE	IF	CITATIONS
19	Recrystallization and Grain Growth Related Texture and Microstructure Evolution in Two Rolled Magnesium Rare-Earth Alloys. Materials Science Forum, 0, 765, 527-531.	0.3	12
20	EXPERIMENTAL DETERMINATION AND THEORETICAL ANALYSIS OF LOCAL RESIDUAL STRESS AT GRAIN SCALE. , 2017, , .		4
21	Process-Structure-Property Relationships for Magnesium Alloys. Materials Science Forum, 0, 706-709, 1273-1278.	0.3	3
22	Effect of Process Variables on Microstructural Features during Solidification of AM60B Magnesium Alloy. Materials Science Forum, 0, 706-709, 1279-1284.	0.3	1
23	Deformation, Recrystallization and Grain Growth Behavior of Large-Strain Hot Rolled Binary Mg-1Dy Alloy. , 2014, , 133-138.		0