

Indranil Basu

List of Publications by Year in descending order

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23
papers

1,359
citations

516710

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839539

18
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24
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24
docs citations

24
times ranked

1047
citing authors

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

#	ARTICLE	IF	CITATIONS
19	Deformation, Recrystallization and Grain Growth Behavior of Large-Strain Hot Rolled Binary Mg-1Dy Alloy. , 2014, , 133-138.		0
20	Shear band-related recrystallization and grain growth in two rolled magnesium-rare earth alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 50-56.	5.6	141
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	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