

Somjeet Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

1,249
citations

471371

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38
all docs

38
docs citations

38
times ranked

1000
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Recrystallization and its Effect on Microstructure and Texture Evolution in Magnesium Alloys. , 2022, , 476-481.		2
2	Effect of ECAP temperature on the microstructure, texture evolution and mechanical properties of pure magnesium. Materials Today: Proceedings, 2021, 44, 2914-2918.	0.9	13
3	Microstructure and texture evolution during multi-direction forging of titanium. Materials Today: Proceedings, 2021, 44, 3102-3105.	0.9	2
4	Twin induced Strain Hardening, Grain Fragmentation, and Texture Evolution during Cold Compression of CP-Ti. IOP Conference Series: Materials Science and Engineering, 2021, 1121, 012026.	0.3	0
5	Fracture toughness of hot rolled pure magnesium: Correlation with microstructure and texture. IOP Conference Series: Materials Science and Engineering, 2021, 1121, 012028.	0.3	1
6	Improving Ductility in Dual-Phase Steel by Cold Rolling and Intercritical Annealing. IOP Conference Series: Materials Science and Engineering, 2021, 1121, 012025.	0.3	1
7	On the possibility to reduce ECAP deformation temperature in magnesium: Deformation behaviour, dynamic recrystallization and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141103.	2.6	26
8	Multiaxial plane-strain forging and rolling of biomedical grade titanium: Evolution of microstructure, texture, and mechanical properties. Materials Letters, 2021, 291, 129540.	1.3	5
9	High tensile strength-ductility combination in cold multiaxial plane-strain forged and rolled nanostructured Titanium. Materialia, 2020, 11, 100698.	1.3	13
10	Evolution of microstructure and crystallographic texture in $\hat{1}\pm\hat{1}^2$ Brass during equal channel angular pressing. Materials Characterization, 2020, 163, 110270.	1.9	11
11	Strain hardening, twinning and texture evolution in magnesium alloy using the all twin variant polycrystal modelling approach. International Journal of Plasticity, 2020, 128, 102660.	4.1	42
12	An Overview on the Texture Evolution of Cold Rolled IF Steels and Zn Coating During Galvanizing and Galvannealing. , 2019, , .		1
13	An analytical model to predict strain-hardening behaviour and twin volume fraction in a profoundly twinning magnesium alloy. International Journal of Plasticity, 2019, 119, 273-290.	4.1	33
14	On the Strain-Hardening Behavior and Twin-Induced Grain Refinement of CP-Ti Under Ambient Temperature Compression. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2169-2188.	1.1	18
15	Microstructure, Texture Evolution and Dynamic Recrystallization in Magnesium. , 2019, , .		0
16	Deformation Behavior and Evolution of Microstructure and Texture During Hot Compression of AISI 304LN Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 864-880.	1.1	21
17	Effect of composition and thermo-mechanical processing schedule on the microstructure, precipitation and strengthening of Nb-microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 690, 158-169.	2.6	47
18	Twinning-Induced Elasticity in NiTi Shape Memory Alloys. Shape Memory and Superelasticity, 2016, 2, 145-159.	1.1	29

#	ARTICLE	IF	CITATIONS
19	Thermal Response on the Microstructure and Texture of ECAP and Cold-Rolled Pure Magnesium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2598-2613.	1.1	29
20	Role of deformation temperature on the evolution and heterogeneity of texture during equal channel angular pressing of magnesium. Materials Characterization, 2015, 102, 98-102.	1.9	31
21	Relationship Between the 3D Porosity and $\hat{\epsilon}^2$ -Phase Distributions and the Mechanical Properties of a High Pressure Die Cast AZ91 Mg Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4391-4403.	1.1	33
22	Notes on representing grain size distributions obtained by electron backscatter diffraction. Materials Characterization, 2013, 84, 67-71.	1.9	35
23	Evolution of texture and microstructure during hot torsion of a magnesium alloy. Acta Materialia, 2013, 61, 5263-5277.	3.8	107
24	Evolution of sub-micron grain size and weak texture in magnesium alloy Mg-3Al-0.4Mn by a modified multi-axial forging process. Scripta Materialia, 2012, 66, 89-92.	2.6	101
25	Asymmetric and symmetric rolling of magnesium: Evolution of microstructure, texture and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 19-30.	2.6	117
26	Analysis of texture evolution in pure magnesium and the magnesium alloy AM30 during rod and tube extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3722-3729.	2.6	75
27	Room-temperature equal channel angular extrusion of pure magnesium. Acta Materialia, 2010, 58, 3247-3261.	3.8	237
28	Analysis of microstructure and texture evolution in pure magnesium during symmetric and asymmetric rolling. Acta Materialia, 2009, 57, 5061-5077.	3.8	123
29	Evolution of Grain-Boundary Microstructure and Texture in Interstitial-Free Steel Processed by Equal-Channel Angular Extrusion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2729-2742.	1.1	37
30	Deformation characterization of superplastic AA7475 alloy. Transactions of the Indian Institute of Metals, 2009, 62, 149-152.	0.7	3
31	Ultra-fine Grain Materials by Severe Plastic Deformation: Application to Steels. , 2009, , 325-344.		9
32	Grain Growth in ECAE Processed Pure Magnesium. , 2009, , 465-473.		3
33	Evolution of Crystallographic Texture During Equal Channel Angular Extrusion (ECAE) of ($\hat{\epsilon}^2 + \hat{\epsilon}^2$) Brass. , 2009, , 457-464.		0
34	Study of Texture Evolution of Pure Magnesium during ECAE Using EBSD. Materials Science Forum, 2008, 584-586, 343-348.	0.3	16
35	Texture and Grain Boundary Character Distribution during Equal Channel Angular Extrusion of some Two-Phase Copper Alloys. Materials Science Forum, 2008, 584-586, 585-590.	0.3	4
36	Load history effect on FCGR behaviour of 304LN stainless steel. International Journal of Fatigue, 2007, 29, 786-791.	2.8	15

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37	Microstructure and Texture Evolution in Interstitial-Free (IF) Steel Processed by Multi-Axial Forging. Materials Science Forum, 0, 702-703, 774-777.	0.3	9
38	Corrosion Behavior of Ultra Fine Grain Pure Magnesium for Automotive Applications. SAE International Journal of Materials and Manufacturing, 0, 6, 99-104.	0.3	0