Somjeet Biswas

List of Publications by Year in descending order

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38 papers	1,249 citations	471371 17 h-index	477173 29 g-index
38 all docs	38 docs citations	38 times ranked	1000 citing authors

#	Article	IF	Citations
1	Room-temperature equal channel angular extrusion of pure magnesium. Acta Materialia, 2010, 58, 3247-3261.	3.8	237
2	Analysis of microstructure and texture evolution in pure magnesium during symmetric and asymmetric rolling. Acta Materialia, 2009, 57, 5061-5077.	3.8	123
3	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
4	Evolution of texture and microstructure during hot torsion of a magnesium alloy. Acta Materialia, 2013, 61, 5263-5277.	3.8	107
5	Evolution of sub-micron grain size and weak texture in magnesium alloy Mgâ€“3Alâ€“0.4Mn by a modified multi-axial forging process. Scripta Materialia, 2012, 66, 89-92.	2.6	101
6	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
7	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
8	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
9	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
10	Notes on representing grain size distributions obtained by electron backscatter diffraction. Materials Characterization, 2013, 84, 67-71.	1.9	35
11	Relationship Between the 3D Porosity and Î²-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
12	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
13	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
14	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
15	Twinning-Induced Elasticity in NiTi Shape Memory Alloys. Shape Memory and Superelasticity, 2016, 2, 145-159.	1.1	29
16	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
17	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
18	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

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19	Study of Texture Evolution of Pure Magnesium during ECAE Using EBSD. Materials Science Forum, 2008, 584-586, 343-348.	0.3	16
20	Load history effect on FCGR behaviour of 304LN stainless steel. International Journal of Fatigue, 2007, 29, 786-791.	2.8	15
21	High tensile strength-ductility combination in cold multiaxial plane-strain forged and rolled nanostructured Titanium. Materialia, 2020, 11, 100698.	1.3	13
22	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
23	Evolution of microstructure and crystallographic texture in Î±-Î² Brass during equal channel angular pressing. Materials Characterization, 2020, 163, 110270.	1.9	11
24	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
25	Ultra-fine Grain Materials by Severe Plastic Deformation: Application to Steels. , 2009, , 325-344.		9
26	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
27	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
28	Deformation characterization of superplastic AA7475 alloy. Transactions of the Indian Institute of Metals, 2009, 62, 149-152.	0.7	3
29	Grain Growth in ECAE Processed Pure Magnesium. , 2009, , 465-473.		3
30	Dynamic Recrystallization and its Effect on Microstructure and Texture Evolution in Magnesium Alloys. , 2022, , 476-481.		2
31	Microstructure and texture evolution during multi-direction forging of titanium. Materials Today: Proceedings, 2021, 44, 3102-3105.	0.9	2
32	An Overview on the Texture Evolution of Cold Rolled IF Steels and Zn Coating During Galvanizing and Galvannealing. , 2019, , .		1
33	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
34	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
35	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
36	Microstructure, Texture Evolution and Dynamic Recrystallization in Magnesium. , 2019, , .		0

#	Article	IF	Citations
37	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
38	Evolution of Crystallographic Texture During Equal Channel Angular Extrusion (ECAE) of (Î±+Î²) Brass. , 2009, , 457-464.		0