

Barna Roy

List of Publications by Year in descending order

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papers

272
citations

1039880

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1125617

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221
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of cryorolling on the microstructure and tensile properties of bulk nano-austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 631, 241-247.	2.6	62
2	Mechanism of lamellae deformation and phase rearrangement in ultrafine $\hat{1}^2$ -Ti/FeTi eutectic composites. <i>Acta Materialia</i> , 2015, 97, 170-179.	3.8	39
3	Effect of twin spacing, dislocation density and crystallite size on the strength of nanostructured $\hat{1}^{\pm}$ -brass. <i>Journal of Alloys and Compounds</i> , 2015, 618, 139-145.	2.8	34
4	High temperature oxidation response of Al/Ce doped Mo $\hat{1}^{\pm}$ Si $\hat{1}^{\pm}$ B composites. <i>Intermetallics</i> , 2017, 83, 101-109.	1.8	28
5	Transient stage oxidation behavior of Mo76Si14B10 alloy at 1150 $\hat{1}^{\pm}$ C. <i>Corrosion Science</i> , 2013, 68, 231-237.	3.0	25
6	Strengthening face centered cubic crystals by annealing induced nano-twins. <i>Scientific Reports</i> , 2017, 7, 17512.	1.6	20
7	Evolution and interaction of twins, dislocations and stacking faults in rolled $\hat{1}^{\pm}$ -brass during nanostructuring at sub-zero temperature. <i>AIP Advances</i> , 2014, 4, .	0.6	19
8	Hybrid thermal stabilization of Zr doped nanocrystalline Cu. <i>Materials and Design</i> , 2019, 164, 107564.	3.3	15
9	Improvement of oxidation resistance of arc-melted Mo 76 Si 14 B 10 by microstructure control upon minor Fe addition. <i>Intermetallics</i> , 2017, 88, 28-30.	1.8	12
10	Tuning of nanostructure by the control of twin density, dislocation density, crystallite size, and stacking fault energy in Cu 100 $\hat{1}^{\pm}$ x Zn x (0 $\hat{1}^{\pm}$ % x $\hat{1}^{\pm}$ %30 wt%). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 672, 203-215.	2.6	9
11	Effect of Oxygen Partial Pressure on the Cyclic Oxidation Behavior of Mo76Si14B10. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2910-2913.	1.1	4
12	Micro-texture regions in rolled Ti-6Al-4V under polarized light. <i>Scripta Materialia</i> , 2022, 213, 114588.	2.6	3
13	Enhanced thermal stability of nanocrystalline Cu-Al alloy by nanotwin and nanoprecipitate. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166273.	2.8	2