

Kumar Babu Surreddi

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44
papers

1,526
citations

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h-index

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45
ext. papers

1,730
ext. citations

3.7
avg, IF

4.22
L-index

#	Paper	IF	Citations
44	Microstructure and mechanical properties of Al ₂ Si produced by selective laser melting: Effect of heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 590, 153-160	5.3	481
43	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. <i>Acta Materialia</i> , 2009 , 57, 2029-2039	8.4	194
42	Powder metallurgy of Al-based metal matrix composites reinforced with Al ₃ Mg ₂ intermetallic particles: Analysis and modeling of mechanical properties. <i>Acta Materialia</i> , 2009 , 57, 4529-4538	8.4	128
41	Significant tensile ductility induced by cold rolling in Cu _{47.5} Zr _{47.5} Al ₅ bulk metallic glass. <i>Intermetallics</i> , 2011 , 19, 1394-1398	3.5	75
40	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. <i>Journal of Materials Science</i> , 2008 , 43, 4518-4526	4.3	74
39	Ductile bulk metallic glasses produced through designed heterogeneities. <i>Scripta Materialia</i> , 2011 , 65, 815-818	5.6	64
38	Mechanical alloying and milling of AlMg alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 2-7	5.7	62
37	Effect of cold rolling on compressive and tensile mechanical properties of Zr _{52.5} Ti ₅ Cu ₁₈ Ni _{14.5} Al ₁₀ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S128-S130	5.7	48
36	Crystallization behavior and consolidation of gas-atomized Al ₈₄ Gd ₆ Ni ₇ Co ₃ glassy powder. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 137-142	5.7	36
35	Microstructure and mechanical properties of Laves phase-reinforced Fe ₂ Zr ₃ Cr alloys. <i>Intermetallics</i> , 2009 , 17, 532-539	3.5	29
34	Grain and crystallite size evaluation of cryomilled pure copper. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S343-S347	5.7	24
33	High-strength Al ₈₇ Ni ₈ La ₅ bulk alloy produced by spark plasma sintering of gas atomized powders. <i>Journal of Materials Research</i> , 2009 , 24, 2909-2916	2.5	24
32	Enhanced plastic deformation of Zr _{41.2} Ti _{13.8} Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass by the optimization of frictional boundary restraints. <i>Scripta Materialia</i> , 2010 , 62, 750-753	5.6	21
31	Phase evolution during the reactive sintering of ternary Al ₃ Ni ₃ powder compacts. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 294-305	5.7	20
30	Crystallization kinetics of Zr ₆₅ Ag ₅ Cu _{12.5} Ni ₁₀ Al _{7.5} glassy powders produced by ball milling of pre-alloyed ingots. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 279-285	5.3	20
29	Strain-induced structural transformation of single-phase Al ₁₀ Cu ₈ Be icosahedral quasicrystal during mechanical milling. <i>Philosophical Magazine</i> , 2011 , 91, 2482-2490	1.6	20
28	Mechanical properties of cold-rolled Zr ₆₀ Ti ₅ Ag ₅ Cu _{12.5} Ni ₁₀ Al _{7.5} metallic glass. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1118-1121	1.6	20

27	Microstructure and mechanical properties of partially amorphous Al ₈₅ Y ₈ Ni ₅ Co ₂ plate produced by spray forming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2747-2758	5.3	15
26	Improved Room Temperature Plasticity of Zr _{41.2} Ti _{13.8} Cu _{12.5} Ni ₁₀ Be _{22.5} Bulk Metallic Glass by Channel-Die Compression. <i>Advanced Engineering Materials</i> , 2010 , 12, 1123-1126	3.5	14
25	Formation of oxide layers on tungsten at low oxygen partial pressures. <i>Journal of Nuclear Materials</i> , 2018 , 506, 26-34	3.3	14
24	Shear band morphology and fracture behavior of cold-rolled Zr _{52.5} Ti ₅ Cu ₁₈ Ni _{14.5} Al ₁₀ bulk metallic glass under tensile loading. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 722-727	5.7	13
23	Enhanced Densification of PM Steels by Liquid Phase Sintering with Boron-Containing Master Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 255-263	2.3	12
22	Consolidation and mechanical properties of ball milled Zr ₅₀ Cu ₅₀ glassy ribbons. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 227-230	5.7	12
21	Formation of Nanocrystalline Matrix Composite during Spray Forming of Al ₈₃ La ₅ Y ₅ Ni ₅ Co ₂ . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 450-461	2.3	11
20	Pressure-assisted sintering of Al ₇₀ Co ₃₀ amorphous alloy powders. <i>Materialia</i> , 2018 , 2, 157-166	3.2	10
19	Deformation at ambient and high temperature of Laves phases-ferrite composites. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 034801	7.1	9
18	Solid-state processing of Al-Mg alloys. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012019	0.3	9
17	Structure and mechanical properties of AlMg alloys produced by copper mold casting. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S483-S486	5.7	8
16	Structural and Mechanical Characterization of ZrTiCuNiAl Bulk Metallic Glass. <i>Materials</i> , 2011 , 5, 1-11	3.5	8
15	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012154	0.3	8
14	Study of heavy ion beam induced damage in tungsten for high power target applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 439, 7-16	1.2	8
13	Microstructural characteristics of spray formed and heat treated Al _(Y, La) Ni ₁₀ Co system. <i>Journal of Alloys and Compounds</i> , 2013 , 578, 471-480	5.7	5
12	Spark plasma sintering of gas atomized Al ₈₇ Ni ₈ La ₅ amorphous powder. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012079	0.3	5
11	Effect of stress concentration on plastic deformation of Zr _{41.2} Ti _{13.8} Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass under compressive loading. <i>Materials Letters</i> , 2016 , 179, 202-205	3.3	5
10	Microstructure analysis of martensitic low alloy carbon steel samples subjected to deformation dilatometry. <i>Materials Characterization</i> , 2019 , 157, 109926	3.9	4

9	In-situ X-ray diffraction of mechanically milled Al_3Mg_2 powders. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 272-274	2.5	4
8	Spray forming of bulk $\text{Al}_{85}\text{Y}_8\text{Ni}_5\text{Co}_2$ with co-existing amorphous, nano- and micro-crystalline structures. <i>Transactions of the Indian Institute of Metals</i> , 2009 , 62, 331-335	1.2	3
7	Tool wear by dissolution during machining of alloy 718 and Waspaloy: a comparative study using diffusion couples. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 1431-1440	3.2	3
6	Solidification of Alloy 718, ATI 718Plus \square and Waspaloy 2014 , 181-192		2
5	Production of high-strength $\text{Al}_{85}\text{Y}_8\text{Ni}_5\text{Co}_2$ bulk alloy by spark plasma sintering. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012155	0.3	2
4	Stress-induced martensitic transformation in a $\text{Ti}_{45}\text{Zr}_{38}\text{Al}_{17}$ cast rod. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012090	0.3	1
3	Microstructure and properties of in-situ high entropy alloy/tungsten carbide composites by mechanical alloying.. <i>Material Design and Processing Communications</i> , 2020 ,	0.9	1
2	Consolidation and mechanical properties of mechanically alloyed Al-Mg powders. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 54601		
1	Powder metallurgy of high-strength $\text{Al}_{90.4}\text{Y}_{4.4}\text{Ni}_{4.3}\text{Co}_{0.9}$ gas-atomized powder 2012 , 1017-1022		