Kumar Babu Surreddi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microstructure and mechanical properties of Al–12Si produced by selective laser melting: Effect of heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 153-160.	2.6	649
2	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. Acta Materialia, 2009, 57, 2029-2039.	3.8	229
3	Powder metallurgy of Al-based metal matrix composites reinforced with β-Al3Mg2 intermetallic particles: Analysis and modeling of mechanical properties. Acta Materialia, 2009, 57, 4529-4538.	3.8	165
4	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. Journal of Materials Science, 2008, 43, 4518-4526.	1.7	88
5	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. Intermetallics, 2011, 19, 1394-1398.	1.8	83
6	Ductile bulk metallic glasses produced through designed heterogeneities. Scripta Materialia, 2011, 65, 815-818.	2.6	76
7	Mechanical alloying and milling of Al–Mg alloys. Journal of Alloys and Compounds, 2009, 483, 2-7.	2.8	67
8	Effect of cold rolling on compressive and tensile mechanical properties of Zr52.5Ti5Cu18Ni14.5Al10 bulk metallic glass. Journal of Alloys and Compounds, 2011, 509, S128-S130.	2.8	56
9	Crystallization behavior and consolidation of gas-atomized Al84Gd6Ni7Co3 glassy powder. Journal of Alloys and Compounds, 2010, 491, 137-142.	2.8	50
10	Microstructure and mechanical properties of Laves phase-reinforced Fe–Zr–Cr alloys. Intermetallics, 2009, 17, 532-539.	1.8	39
11	Grain and crystallite size evaluation of cryomilled pure copper. Journal of Alloys and Compounds, 2011, 509, S343-S347.	2.8	33
12	High-strength Al ₈₇ Ni ₈ La ₅ bulk alloy produced by spark plasma sintering of gas atomized powders. Journal of Materials Research, 2009, 24, 2909-2916.	1.2	28
13	Enhanced plastic deformation of Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass by the optimization of frictional boundary restraints. Scripta Materialia, 2010, 62, 750-753.	2.6	25
14	Phase evolution during the reactive sintering of ternary Al–Ni–Ti powder compacts. Journal of Alloys and Compounds, 2016, 661, 294-305.	2.8	25
15	Strain-induced structural transformation of single-phase Al–Cu–Fe icosahedral quasicrystal during mechanical milling. Philosophical Magazine, 2011, 91, 2482-2490.	0.7	23
16	Formation of oxide layers on tungsten at low oxygen partial pressures. Journal of Nuclear Materials, 2018, 506, 26-34.	1.3	22
17	Crystallization kinetics of Zr65Ag5Cu12.5Ni10Al7.5 glassy powders produced by ball milling of pre-alloyed ingots. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 279-285.	2.6	21
18	Mechanical properties of coldâ€rolled Zr ₆₀ Ti ₅ Ag ₅ Cu _{12.5} Ni ₁₀ Al _{7.5} metallic glass. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1118-1121.	0.8	21

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19	Shear band morphology and fracture behavior of cold-rolled Zr52.5Ti5Cu18Ni14.5Al10 bulk metallic glass under tensile loading. Journal of Alloys and Compounds, 2017, 708, 722-727.	2.8	19
20	Consolidation and mechanical properties of ball milled Zr50Cu50 glassy ribbons. Journal of Alloys and Compounds, 2009, 483, 227-230.	2.8	17
21	Enhanced Densification of PM Steels by Liquid Phase Sintering with Boron-Containing Master Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 255-263.	1.1	17
22	Microstructure and mechanical properties of partially amorphous Al85Y8Ni5Co2 plate produced by spray forming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2747-2758.	2.6	16
23	Improved Room Temperature Plasticity of Zr _{41.2} Ti _{13.8} Cu _{12.5} Ni ₁₀ Be _{22.5} Bulk Metallic Glass by Channelâ€Die Compression. Advanced Engineering Materials, 2010, 12, 1123-1126.	1.6	14
24	Pressure-assisted sintering of Al–Gd–Ni–Co amorphous alloy powders. Materialia, 2018, 2, 157-166.	1.3	13
25	Formation of Nanocrystalline Matrix Composite during Spray Forming of Al83La5Y5Ni5Co2. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 450-461.	1.1	12
26	Structure and mechanical properties of Al–Mg alloys produced by copper mold casting. Journal of Alloys and Compounds, 2010, 504, S483-S486.	2.8	11
27	Deformation at ambient and high temperature of <i>in situ</i> Laves phases-ferrite composites. Science and Technology of Advanced Materials, 2014, 15, 034801.	2.8	11
28	Solid-state processing of Al-Mg alloys. Journal of Physics: Conference Series, 2009, 144, 012019.	0.3	10
29	Structural and Mechanical Characterization of Zr58.5Ti8.2Cu14.2Ni11.4Al7.7 Bulk Metallic Glass. Materials, 2012, 5, 1-11.	1.3	10
30	Effect of stress concentration on plastic deformation of Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass under compressive loading. Materials Letters, 2016, 179, 202-205.	1.3	10
31	Microstructure analysis of martensitic low alloy carbon steel samples subjected to deformation dilatometry. Materials Characterization, 2019, 157, 109926.	1.9	10
32	Study of heavy ion beam induced damage in tungsten for high power target applications. Nuclear Instruments & Methods in Physics Research B, 2019, 439, 7-16.	0.6	9
33	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. Journal of Physics: Conference Series, 2010, 240, 012154.	0.3	8
34	Spark plasma sintering of gas atomized Al ₈₇ Ni ₈ La ₅ amorphous powder. Journal of Physics: Conference Series, 2009, 144, 012079.	0.3	7
35	Microstructural characteristics of spray formed and heat treated Al–(Y, La)–Ni–Co system. Journal of Alloys and Compounds, 2013, 578, 471-480.	2.8	7
36	Inâ€situ Xâ€ray diffraction of mechanically milled βâ€Al ₃ Mg ₂ powders. Physica Status Solidi - Rapid Research Letters, 2008, 2, 272-274.	1.2	4

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37	Spray forming of bulk Al85Y8Ni5Co2 with co-existing amorphous, nano- and micro-crystalline structures. Transactions of the Indian Institute of Metals, 2009, 62, 331-335.	0.7	4
38	Tool wear by dissolution during machining of alloy 718 and Waspaloy: a comparative study using diffusion couples. International Journal of Advanced Manufacturing Technology, 2020, 106, 1431-1440.	1.5	4
39	Production of high-strength Al85Y8Ni5Co2bulk alloy by spark plasma sintering. Journal of Physics: Conference Series, 2010, 240, 012155.	0.3	2
40	Stress-induced martensitic transformation in a Ti ₄₅ Zr ₃₈ Al ₁₇ cast rod. Journal of Physics: Conference Series, 2009, 144, 012090.	0.3	1
41	Microstructure and properties of inâ€situ high entropy alloy/tungsten carbide composites by mechanical alloying Material Design and Processing Communications, 2021, 3, .	0.5	1
42	Consolidation and Mechanical Properties of Mechanically Alloyed Al-Mg Powders. Materials Research Society Symposia Proceedings, 2008, 1128, 54601.	0.1	0
43	Powder metallurgy of high-strength Al90.4Y4.4Ni4.3Co0.9 gas-atomized powder. , 2012, , 1017-1022.		ο