# Bs S Murty

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#	Paper	IF	Citations
397	Grain refinement of aluminium and its alloys by heterogeneous nucleation and alloying. <i>International Materials Reviews</i> , <b>2002</b> , 47, 3-29	16.1	609
396	Decomposition in multi-component AlCoCrCuFeNi high-entropy alloy. <i>Acta Materialia</i> , <b>2011</b> , 59, 182-19	08.4	509
395	Novel materials synthesis by mechanical alloying/milling. <i>International Materials Reviews</i> , <b>1998</b> , 43, 101-	-14611	466
394	Alloying behavior in multi-component AlCoCrCuFe and NiCoCrCuFe high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 534, 83-89	5.3	250
393	Tensile and wear behaviour of in situ AllISi/TiB2 particulate composites. Wear, 2008, 265, 134-142	3.5	237
392	Synthesis and characterization of nanocrystalline AlFeTiCrZnCu high entropy solid solution by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 253-257	5.7	224
391	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. <i>Acta Materialia</i> , <b>2009</b> , 57, 2029-2039	8.4	194
390	Bulk tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Acta Materialia</i> , <b>2018</b> , 146, 211-2	2844	186
389	Processing and properties of nanocrystalline CuNiCoZnAlTi high entropy alloys by mechanical alloying. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1027-1030	5.3	178
388	Development of ultrafine grained high strength Altu alloy by cryorolling. <i>Scripta Materialia</i> , <b>2006</b> , 54, 2013-2017	5.6	177
387	High-Entropy Alloys <b>2014</b> , 13-35		168
386	Development of an efficient grain refiner for All Si alloy and its modification with strontium. <i>Materials Science &amp; Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 283, 94-104	5.3	162
385	Ni tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 994-1001	5.7	157
384	Influence of oxygen on the crystallization behavior of Zr65Cu27.5Al7.5 and Zr66.7Cu33.3 metallic glasses. <i>Acta Materialia</i> , <b>2000</b> , 48, 3985-3996	8.4	151
383	Effect of TiB2 particles on sliding wear behaviour of AlaCu alloy. Wear, 2007, 262, 160-166	3.5	150
382	Alloying, thermal stability and strengthening in spark plasma sintered AlxCoCrCuFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 583, 419-426	5.7	146
381	Direct evidence for oxygen stabilization of icosahedral phase during crystallization of Zr65Cu27.5Al7.5 metallic glass. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 55-57	3.4	132

## (2008-2019)

380	High-entropy alloys by mechanical alloying: A review. Journal of Materials Research, 2019, 34, 664-686	2.5	131
379	On the HallPetch relationship in a nanostructured Al©u alloy. <i>Materials Science &amp; Description on the HallPetch relationship in a nanostructure and Processing</i> , <b>2010</b> , 527, 7821-7825	5.3	128
378	On the parameters to assess the glass forming ability of liquids. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 1366-1371	3.9	125
377	Aluminum-Based Cast In Situ Composites: A Review. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 2185-2207	1.6	118
376	Development of Allīilī grain refiners and study of their grain refining efficiency on Al and AllīSi alloy. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 396, 143-150	5.7	118
375	Atomic-scale compositional characterization of a nanocrystalline AlCrCuFeNiZn high-entropy alloy using atom probe tomography. <i>Acta Materialia</i> , <b>2013</b> , 61, 4696-4706	8.4	112
374	Phase formation in mechanically alloyed AlxCoCrCuFeNi (x\(\begin{align*} \bar{\textbf{0}}\).45, 1, 2.5, 5(\textbf{mol}) high entropy alloys. <i>Intermetallics</i> , <b>2013</b> , 32, 119-126	3.5	109
373	Sliding wear behaviour of T6 treated A356IIiB2 in-situ composites. <i>Wear</i> , <b>2009</b> , 266, 865-872	3.5	108
372	Plasma-Sprayed High Entropy Alloys: Microstructure and Properties of AlCoCrFeNi and MnCoCrFeNi. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 791-800	2.3	98
371	Nanocomposites and an extremely hard nanocrystalline intermetallic of Al <b>E</b> e alloys prepared by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2370-2378	5.3	95
370	Solid state amorphization in binary Ti?Ni, Ti?Cu and ternary Ti?Ni?Cu system by mechanical alloying. <i>Materials Science &amp; Microstructure and Processing</i> , <b>1992</b> , 149, 231-240	5.3	92
369	Effect of grain size on dielectric and ferroelectric properties of nanostructured Ba0.8Sr0.2TiO3 ceramics. <i>Journal of Advanced Ceramics</i> , <b>2015</b> , 4, 46-53	10.7	91
368	Local structure of amorphous Zr70Pd30 alloy studied by electron diffraction. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 485-487	3.4	91
367	Investigation of intrinsic defects in core-shell structured ZnO nanocrystals. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113712	2.5	90
366	Hot consolidation and mechanical properties of nanocrystalline equiatomic AlFeTiCrZnCu high entropy alloy after mechanical alloying. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 5158-5163	4.3	87
365	Ageing behaviour of A356 alloy reinforced with in-situ formed TiB2 particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2008</b> , 489, 220-226	5.3	87
364	Effect of grain refinement on wear properties of Al and All Si alloy. Wear, 2004, 257, 148-153	3.5	87
363	Microstructural characterization and corrosion behavior of multipass friction stir processed AA2219 aluminium alloy. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 4057-4068	4.4	86

362	Milling maps and amorphization during mechanical alloying. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 2443-2450		85
361	Effect of processing parameters on the corrosion behaviour of friction stir processed AA 2219 aluminum alloy. <i>Solid State Sciences</i> , <b>2009</b> , 11, 907-917	3.4	83
360	Formation and Stability of Equiatomic and Nonequiatomic Nanocrystalline CuNiCoZnAlTi High-Entropy Alloys by Mechanical Alloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 2703-2709	2.3	83
359	Glass forming ability: Miedema approach to (Zr, Ti, Hf)(Cu, Ni) binary and ternary alloys. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 465, 163-172	5.7	81
358	Nanoquasicrystallization of binary ZrPd metallic glasses. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1102-1104	3.4	80
357	Phase Evolution and Densification Behavior of Nanocrystalline Multicomponent High Entropy Alloys During Spark Plasma Sintering. <i>Jom</i> , <b>2013</b> , 65, 1797-1804	2.1	77
356	Development of an efficient grain refiner for All Si alloy. <i>Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development of an efficient grain refiner for All Si alloy. Materials Science &amp; Development grain refiner for All Si alloy. Materials Science &amp; Development grain for all Si alloy. Development grain for alloy. Development grain for all Si alloy. Development grain for alloy. Development grain for all Si alloy. Development grain for alloy. Develo</i>	5.3	76
355	Mechanism of mechanical alloying in NiAl and CuZn systems. <i>Materials Science &amp; Description A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 214, 146-152	5.3	76
354	On sinterability of nanostructured W produced by high-energy ball milling. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1200-1206	2.5	71
353	Optimization of bulk metallic glass forming compositions in ZrtuAl system by thermodynamic modeling. <i>Intermetallics</i> , <b>2007</b> , 15, 716-721	3.5	66
352	Phase formation and thermal stability of CoCrFeNi and CoCrFeMnNi equiatomic high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 856-864	5.7	65
351	Thermal Spray High-Entropy Alloy Coatings: A Review. <i>Journal of Thermal Spray Technology</i> , <b>2020</b> , 29, 857-893	2.5	64
350	Radioactive isotopes reveal a non sluggish kinetics of grain boundary diffusion in high entropy alloys. <i>Scientific Reports</i> , <b>2017</b> , 7, 12293	4.9	63
349	Analysis of phase formation in multi-component alloys. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 544, 15	2 <del>-</del> 4. <del>5</del> 8	62
348	Influence of in situ formed TiB2 particles on the abrasive wear behaviour of Al\(\textit{A}\)Cu alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 465, 160-164	5.3	61
347	Ferroelectric phase transition in Pb0.92Gd0.08(Zr0.53Ti0.47)0.98O3 nanoceramic synthesized by high-energy ball milling. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 6091-6096	2.5	60
346	Nanoquasicrystalline phase formation in binary ZrPd and ZrPt alloys. <i>Acta Materialia</i> , <b>2001</b> , 49, 3453-34	- <b>62</b> .4	60
345	Novel materials synthesis by mechanical alloying/milling		60

## (2006-2005)

344	Prediction of grain size of Allasi Alloy by neural networks. <i>Materials Science &amp; Discourse amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 391, 131-140	5.3	59
343	Milling criteria for the synthesis of nanocrystalline NiAl by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 429, 204-210	5.7	58
342	Structure and thermal stability of nanocrystalline materials. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2003</b> , 28, 23-45	1	57
341	Influence of sequence of elemental addition on phase evolution in nanocrystalline AlCoCrFeNi: Novel approach to alloy synthesis using mechanical alloying. <i>Materials and Design</i> , <b>2017</b> , 126, 37-46	8.1	54
340	High temperature wear behavior of AlaCulliB2 in situ composites. Wear, 2010, 268, 1266-1274	3.5	54
339	Icosahedral phase formation by the primary crystallization of a Zr-Cu-Pd metallic glass. <i>Scripta Materialia</i> , <b>2000</b> , 43, 103-107	5.6	53
338	Study of microstructure and magnetic properties of AlNiCo(CuFe) high entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 746, 194-199	5.7	52
337	On Joule heating during spark plasma sintering of metal powders. <i>Scripta Materialia</i> , <b>2014</b> , 93, 52-55	5.6	51
336	Grain refinement response of LM25 alloy towards Allīil and Allīil grain refiners. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 472, 112-120	5.7	50
335	Effect of Sc addition on the microstructure and wear properties of A356 alloy and A356 liB2 in situ composite. <i>Materials &amp; Design</i> , <b>2015</b> , 78, 85-94		49
334	Wear behaviour of near eutectic AlBi alloy reinforced with in-situ TiB2 particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 506, 27-33	5.3	49
333	Mechanical and electrical properties of Culla nanocomposites prepared by high-energy ball milling. <i>Acta Materialia</i> , <b>2007</b> , 55, 4439-4445	8.4	49
332	Synthesis of copperBlumina nanocomposite by reactive milling. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 393, 382-386	5.3	49
331	Al[L12)Al3Ti nanocomposites prepared by mechanical alloying: Synthesis and mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 492, 128-133	5.7	48
330	Phase evolution and stability of nanocrystalline CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 1004-1015	5.7	47
329	Characterization of Oxide Dispersed AlCoCrFe High Entropy Alloy Synthesized by Mechanical Alloying and Spark Plasma Sintering. <i>Transactions of the Indian Institute of Metals</i> , <b>2013</b> , 66, 369-373	1.2	47
328	Nanoquasicrystallization of Zr-based metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 312, 253-261	5.3	47
327	Microstructural and wear behavior of hypoeutectic AlBi alloy (LM25) grain refined and modified with AlTiCBr master alloy. <i>Wear</i> , <b>2006</b> , 261, 133-139	3.5	46

326	Manufacture of Allīi <b>B</b> master alloys by the reaction of complex halide salts with molten aluminium. <i>Journal of Materials Processing Technology</i> , <b>1999</b> , 89-90, 152-158	5.3	46
325	Effect of Temperature on the Wear Behavior of Al-7Si-TiB2 In-Situ Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 223-231	2.3	45
324	Influence of process parameters on the synthesis of nano-titania by solgel route. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 758-	7 <del>5</del> 2	43
323	Effect of Sc addition and T6 aging treatment on the microstructure modification and mechanical properties of A356 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 674, 438-450	5.3	43
322	Large-scale green synthesis of Cu nanoparticles. <i>Environmental Chemistry Letters</i> , <b>2013</b> , 11, 183-187	13.3	42
321	A statistical analysis on erosion wear behaviour of A356 alloy reinforced with in situ formed TiB2 particles. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 476, 333-340	5.3	42
320	Effect of hot rolling and heat treatment of AlBTiBB master alloy on the grain refining efficiency of aluminium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 301, 180-186	5.3	42
319	Understanding the microstructural evolution of high entropy alloy coatings manufactured by atmospheric plasma spray processing. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144117	6.7	42
318	Effect of aggregation of methylene blue dye on TiO2 surface in self-cleaning studies. <i>Catalysis Communications</i> , <b>2010</b> , 11, 518-521	3.2	41
317	Enhanced mangnetoelectric voltage in multiferroic particulate Ni0.83Co0.15Cu0.02Fe1.9O4IPbZr0.52Ti0.48O3 composites Idielectric, piezoelectric and magnetic properties. <i>Current Applied Physics</i> , <b>2009</b> , 9, 1134-1139	2.6	41
316	Effect of scandium additions on microstructure and mechanical properties of AlanMg alloy welds. <i>Materials Science &amp; Discourse and Processing</i> , <b>2007</b> , 467, 132-138	5.3	41
315	Crystallization kinetics and consolidation of mechanically alloyed Al70Y16Ni10Co4 glassy powders. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 171-177	5.7	40
314	Tribological behaviour of Cu60Zr30Ti10 bulk metallic glass. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 458, 290-294	5.3	40
313	Influence of silicon and magnesium on grain refinement in aluminium alloys. <i>Materials Science and Technology</i> , <b>1999</b> , 15, 986-992	1.5	40
312	Electrochemical behavior of multicomponent amorphous and nanocrystalline Zr-based alloys in different environments. <i>Corrosion Science</i> , <b>2006</b> , 48, 2212-2225	6.8	39
311	Formation of Nanocrystalline Particles in Glassy Matrix in Melt-Spun Mg–Cu–Y Based Alloys. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 1538-1544		39
310	Three-dimensional visualization of the microstructure development of Sr-modified Al¶5Si casting alloy using FIB-EsB tomography. <i>Acta Materialia</i> , <b>2010</b> , 58, 6600-6608	8.4	38
309	Multiscale mechanical performance and corrosion behaviour of plasma sprayed AlCoCrFeNi high-entropy alloy coatings. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 854, 157140	5.7	38

### (2010-1997)

308	Role of zirconium and impurities in grain refinement of aluminium lNith Al-Ti-B. <i>Materials Science and Technology</i> , <b>1997</b> , 13, 769-777	1.5	37
307	Synthesis and stability of L12Al3Ti by mechanical alloying. <i>Materials Science &amp; Description A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2004</b> , 367, 218-224	5.3	37
306	Electrical propeties of Gd-doped PZT nanoceramic synthesized by high-energy ball milling.  Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 110, 58-63	3.1	37
305	On icosahedral phase formation in mechanically alloyed Al70Cu20Fe10. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 294-296, 65-67	5.3	37
304	Phase fields of nickel silicides obtained by mechanical alloying in the nanocrystalline state. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 8393-8400	2.5	37
303	Microstructure and Mechanical Properties of Nanostructured Al-4Cu Alloy Produced by Mechanical Alloying and Vacuum Hot Pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 2798-2801	2.3	36
302	Influence of welding process on Type IV cracking behavior of P91 steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 613, 148-158	5.3	35
301	Transition of Crack from Type IV to Type II Resulting from Improved Utilization of Boron in the Modified 9Cr-1Mo Steel Weldment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 3724-3741	2.3	35
300	Mechanical activation of aluminothermic reduction of NiO by high energy ball milling. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 497, 142-146	5.7	35
299	Critical evaluation of glass forming ability criteria. <i>Materials Science and Technology</i> , <b>2016</b> , 32, 380-400	1.5	35
298	Grain growth kinetics in CoCrFeNi and CoCrFeMnNi high entropy alloys processed by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 791, 1114-1121	5.7	34
297	Low temperature synthesis of dense TiB2 compacts by reaction spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 48, 201-210	4.1	34
296	Comparison of corrosion behaviour of friction stir processed and laser melted AA 2219 aluminium alloy. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 4502-4508		34
295	Functionally Graded Al Alloy Matrix In-Situ Composites. <i>Metallurgical and Materials Transactions A:</i> Physical Metallurgy and Materials Science, <b>2010</b> , 41, 242-254	2.3	34
294	Mechanical alloying of Allufe elemental powders. <i>Materials Science &amp; Materials Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 863-866	5.3	34
293	Thermal stability of AlCoFeMnNi high-entropy alloy. Scripta Materialia, 2019, 162, 465-467	5.6	34
292	TiNiCoSnSb - a new half-Heusler type high-entropy alloy showing simultaneous increase in Seebeck coefficient and electrical conductivity for thermoelectric applications. <i>Scientific Reports</i> , <b>2019</b> , 9, 5331	4.9	33
291	Synthesis of in-situ NiAlAl2O3 nanocomposite by reactive milling and subsequent heat treatment.  Intermetallics, 2010, 18, 353-358	3.5	33

290	Structural changes in iron powder during ball milling. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 123, 247-2	534.4	33
289	Microstructural features of as-cast A356 alloy inoculated with Sr, Sb modifiers and Allīi grain refiner simultaneously. <i>Materials Letters</i> , <b>2008</b> , 62, 273-275	3.3	33
288	Grain-size-dependent non-monotonic lattice parameter variation in nanocrystalline W: The role of non-equilibrium grain boundary structure. <i>Scripta Materialia</i> , <b>2015</b> , 98, 20-23	5.6	32
287	Microstructure and the wear mechanism of grain-refined aluminum during dry sliding against steel disc. <i>Wear</i> , <b>2008</b> , 264, 638-647	3.5	32
286	Dielectric relaxation studies of nanocrystalline CuAlO2 using modulus formalism. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 104104	2.5	32
285	Synthesis of quasicrystalline phase by mechanical alloying of Al70Cu20Fe10. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2000</b> , 80, 1207-1217		32
284	Miedema model based methodology to predict amorphous-forming-composition range in binary and ternary systems. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 550, 483-495	5.7	31
283	Investigation and characterization of La-doped PZT nanocrystalline ceramic prepared by mechanical activation route. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 112, 31-34	4.4	31
282	Synthesis of Cu-W nanocomposite by high-energy ball milling. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2376-81	1.3	31
281	High strength nanocrystalline L12-Al3(Ti,Zr) intermetallic synthesized by mechanical alloying. <i>Intermetallics</i> , <b>2007</b> , 15, 26-33	3.5	31
280	On the infiltration behavior of Al, Al-Li, and Mg meltas through SiC p bed. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2000</b> , 31, 319-325	2.3	31
279	Formation of nanocrystalline phases in the Cu-Zn system during mechanical alloying. <i>Journal of Materials Science</i> , <b>1996</b> , 31, 3207-3211	4.3	31
278	Thermodynamic prediction of bulk metallic glass forming alloys in ternary Zrtux (X=Ag, Al, Ti, Ga) systems. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 3495-3499	3.9	30
277	Investigation and characterization of Pb(Zr0.52Ti0.48)O3 nanocrystalline ferroelectric ceramics: By conventional and microwave sintering methods. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 295-300	4.4	30
276	Continuous drive friction welding of Inconel 718 and EN24 dissimilar metal combination. <i>Materials Science and Technology</i> , <b>2009</b> , 25, 851-861	1.5	30
275	Effect of yttria particle size on the microstructure and compression creep properties of nanostructured oxide dispersion strengthened ferritic (FeII2CrIWID.5Y2O3) alloy. <i>Materials Science &amp; Microstructure and Processing</i> , <b>2011</b> ,	5.3	30
274	Effect of prior microstructure on microstructure and mechanical properties of modified 9CrIIMo steel weld joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 477, 185-192	5.3	30
273	Micro and nano indentation studies on Zr60Cu10Al15Ni15 bulk metallic glass. <i>Materials &amp; Design</i> , <b>2015</b> , 65, 98-103		29

## (2004-2013)

272	A new thermodynamic parameter to predict glass forming ability in iron based multi-component systems containing zirconium. <i>Intermetallics</i> , <b>2013</b> , 35, 73-81	3.5	29	
271	Phase Formation in Equiatomic High Entropy Alloys: CALPHAD Approach and Experimental Studies. <i>Transactions of the Indian Institute of Metals</i> , <b>2012</b> , 65, 375-380	1.2	29	
270	Magnetoelectric effect of (100☑)BaTiO3⅙)NiFe1.98O4 (x=20ੴ0 wt %) particulate nanocomposites. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 112902	3.4	29	
269	SYNTHESIS OF LEAD FREE SODIUM BISMUTH TITANATE (NBT) CERAMIC BY CONVENTIONAL AND MICROWAVE SINTERING METHODS. <i>Journal of Advanced Dielectrics</i> , <b>2011</b> , 01, 71-77	1.3	29	
268	Influence of heating rate on the microstructure and magnetic properties of Fe3B/Nd2Fe14B nanocomposite magnets. <i>Scripta Materialia</i> , <b>2001</b> , 45, 355-362	5.6	29	
267	Phase prediction in high entropy alloys 🛭 kinetic approach. <i>Acta Materialia</i> , <b>2018</b> , 153, 214-225	8.4	28	
266	Equal channel angular pressing of AlB wt% TiB2 in situ composite. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 459, 239-243	5.7	28	
265	Reaction of fluoride salts with aluminium. <i>Materials Science and Technology</i> , <b>1996</b> , 12, 766-770	1.5	28	
264	Experimental assessment of the thermodynamic factor for diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Scripta Materialia</i> , <b>2018</b> , 157, 81-85	5.6	27	
263	Synthesis, characterization and demonstration of self-cleaning TiO2 coatings on glass and glazed ceramic tiles. <i>Progress in Organic Coatings</i> , <b>2013</b> , 76, 1756-1760	4.8	27	
262	AlliitBr master alloyA melt inoculant for simultaneous grain refinement and modification of hypoeutectic AlBi alloys. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, L49-L51	5.7	27	
261	Microstructural studies on nanocrystalline oxide dispersion strengthened austenitic (Fella Rorania and vacuum hot pressing. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4858-4865	4.3	27	
260	On the conditions for the synthesis of bulk metallic glasses by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 459, 135-141	5.7	27	
259	Estimation of entrapped powder temperature during mechanical alloying. <i>Scripta Materialia</i> , <b>2004</b> , 50, 1199-1202	5.6	27	
258	Austenitic Oxide Dispersion Strengthened Steels : A Review. <i>Defence Science Journal</i> , <b>2016</b> , 66, 316	1.4	27	
257	Structure of nanocomposites of Al-Fe alloys prepared by mechanical alloying and rapid solidification processing. <i>Bulletin of Materials Science</i> , <b>2008</b> , 31, 449-454	1.7	26	
256	Synthesis of nanocrystalline/quasicrystalline Mg32(Al,Zn)49 by melt spinning and mechanical milling. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 5155-5159	4.3	26	
255	Influence of thermo-mechanical processing of AlBTiBB master alloy on its grain refining efficiency. <i>Materials Science &amp; Droperties, Microstructure and Processing</i> , <b>2004</b> , 364, 75-83	5.3	26	

254	Stability of quasicrystalline phase in Allule, Allule and Allule and Allule systems by high energy ball milling. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 334-335, 48-51	3.9	26
253	Interplay Between Residual Stresses, Microstructure, Process Variables and Engine Block Casting Integrity. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 5258-5270	2.3	25
252	Microstructure-hardness relationship of Al[L12)Al3Ti nanocomposites prepared by rapid solidification processing. <i>Intermetallics</i> , <b>2010</b> , 18, 487-492	3.5	25
251	Nanocrystalline phases in Cu?Ni, Cu?Zn and Ni?Al systems by mechanical alloying. <i>Scripta Materialia</i> , <b>1997</b> , 9, 149-152		25
250	On the modification and segregation behavior of Sb in Al\(\mathbb{I}\)Si alloy during solidification. <i>Materials Letters</i> , <b>2008</b> , 62, 2013-2016	3.3	25
249	Gibb® free energy for the crystallization of glass forming liquids. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 671-	67334	25
248	Nanostructured icosahedral phase formation in Al70Cu20Fe10 by mechanical alloying: Comprehensive study. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5353-5359	2.5	25
247	Maxwell Wagner polarization in grain boundary segregated NiCuZn ferrite. <i>Current Applied Physics</i> , <b>2014</b> , 14, 1727-1733	2.6	24
246	Effect of molybdenum and niobium on the phase formation and hardness of nanocrystalline CoCrFeNi high entropy alloys. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 8106-9	1.3	24
245	Synthesis of nanostructured AlMgBiO2 metal matrix composites using high-energy ball milling and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S35-S40	5.7	24
244	Development of in situ NiAlAl2O3 nanocomposite by reactive milling and spark plasma sintering. Journal of Alloys and Compounds, <b>2011</b> , 509, S223-S228	5.7	24
243	Formation of metastable phases and nanocomposite structures in rapidly solidified Alfie alloys. <i>Materials Science &amp; Materials Science &amp; Microstructure and Processing</i> , <b>2011</b> , 528, 5967-5973	5.3	24
242	The influence of room temperature and cryogenic temperature rolling on the aging and wear behaviour of AlaCuBTiB2 in situ composites. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 479, 268-273	5.7	24
241	Transformation of the decagonal quasicrystalline phase to a B2 crystalline phase in the Al-Cu-Co system by high-energy ball milling. <i>Philosophical Magazine Letters</i> , <b>2002</b> , 82, 383-392	1	24
240	Effects of base and filler chemistry and weld techniques on equiaxed zone formation in AlanMg alloy welds. <i>Science and Technology of Welding and Joining</i> , <b>2008</b> , 13, 598-606	3.7	23
239	Influence of Fe and Cr on the disordering behavior of mechanically alloyed NiAl. <i>Scripta Materialia</i> , <b>1996</b> , 7, 691-697		23
238	Microstructure and mechanical properties of a high entropy alloy with a eutectic composition (AlCoCrFeNi2.1) synthesized by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155424	5.7	22
237	Effect of grain size on the electrical properties of high dense BPT nanocrystalline ferroelectric ceramics. <i>Ceramics International</i> , <b>2014</b> , 40, 1781-1788	5.1	22

236	Effect of DC bias on electrical conductivity of nanocrystalline ECuSCN. AIP Advances, 2011, 1, 022107	1.5	22
235	Thermodynamic and Topological Modeling and Synthesis of Cu-Zr-Ti-Ni <b>B</b> ased Bulk Metallic Glasses by Mechanical Alloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 1543-1551	2.3	22
234	On the criteria for the formation of nanoquasicrystalline phase. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1674-	-16746	22
233	Low temperature synthesis of dense and ultrafine grained zirconium diboride compacts by reactive spark plasma sintering. <i>Scripta Materialia</i> , <b>2016</b> , 110, 78-81	5.6	21
232	Settling behaviour of TiAl3, TiB2, TiC and AlB2 particles in liquid Al during grain refinement. <i>International Journal of Cast Metals Research</i> , <b>2010</b> , 23, 193-204	1	21
231	Electrochemical behaviour of amorphous and nanoquasicrystalline ZrBd and ZrBt alloys in different environments. <i>Corrosion Science</i> , <b>2005</b> , 47, 2619-2635	6.8	21
230	Novel rare-earth and transition metal-based entropy stabilized oxides with spinel structure. <i>Scripta Materialia</i> , <b>2020</b> , 178, 513-517	5.6	21
229	Deformation behaviour of in-situ TiB2 reinforced A357 aluminium alloy composite foams under compressive and impact loading. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2017</b> , 684, 178-185	5.3	20
228	Thermodynamic modeling and composition design for the formation of ZrIIi LuNiAl high entropy bulk metallic glasses. <i>Intermetallics</i> , <b>2015</b> , 65, 42-50	3.5	20
227	Kinetic modification of the Bonfusion principleIfor metallic glass formation. <i>Scripta Materialia</i> , <b>2016</b> , 116, 7-10	5.6	20
226	Prediction of Glass Forming Ability Using Thermodynamic Parameters. <i>Transactions of the Indian Institute of Metals</i> , <b>2012</b> , 65, 559-563	1.2	20
225	Crystallization kinetics of Zr65Ag5Cu12.5Ni10Al7.5 glassy powders produced by ball milling of pre-alloyed ingots. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 513-514, 279-285	5.3	20
224	Fabrication and Response of Al70Y16Ni10Co4 Glass Reinforced Metal Matrix Composites. <i>Materials and Manufacturing Processes</i> , <b>2011</b> , 26, 1242-1247	4.1	20
223	Influence of heat of formation of B2/L12 intermetallic compounds on the milling energy for their formation during mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 465, 106-112	5.7	20
222	Effect of mechanical activation on synthesis of ultrafine Si3N4MoSi2 in situ composites. <i>Materials Science &amp; Microstructure and Processing</i> , <b>2004</b> , 382, 321-327	5.3	20
221	Effect of crystal structure and grain size on corrosion properties of AlCoCrFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 863, 158056	5.7	20
220	Influence of Al content on thermal stability of nanocrystalline AlxCoCrFeNi high entropy alloys at low and intermediate temperatures. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 1985-1993	4.6	19
219	Gibbs energy-composition plots as a tool for high-entropy alloy design. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 768, 358-367	5.7	19

218	Enhanced magnetoelectric properties in lead-free Ni0.83Co0.15Cu0.02Fe1.9O4-Na0.5Bi0.5TiO3 composites by spark plasma sintering. <i>Scripta Materialia</i> , <b>2014</b> , 82, 9-12	5.6	19
217	Initial-stage Sintering Kinetics of Nanocrystalline Tungsten. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3863-3866	2.3	19
216	Formation of novel microstructures in conventionally cast Alfiel/Bi alloys. <i>Materials Science</i> & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 355, 193-200	5.3	19
215	A new approach for synthesis of ZnO nanorod flowerets and subsequent pure free-standing ZnO nanorods. <i>Advanced Powder Technology</i> , <b>2019</b> , 30, 30-41	4.6	19
214	Microstructure and mechanical properties of as-cast and T6 treated Sc modified A356-5TiB2 in-situ composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2019</b> , 739, 383-394	5.3	19
213	Effect of Boron Addition and Initial Heat-Treatment Temperature on Microstructure and Mechanical Properties of Modified 9Cr-1Mo Steels Under Different Heat-Treatment Conditions.  Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2171-218	2.3 8 <b>6</b>	18
212	Spark plasma sintered Sm(2)Co(17)-FeCo nanocomposite permanent magnets synthesized by high energy ball milling. <i>Nanotechnology</i> , <b>2008</b> , 19, 335701	3.4	18
211	Optical and electrical properties of mechanochemically synthesized nanocrystalline delafossite CuAlO2. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4273-8	1.3	18
210	Oxidation behavior of multicomponent Zr-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 433, 162-170	5.7	18
209	Nanocrystalline phase formation and extension of solid solubility by mechanical alloying in Ti-based systems. <i>Scripta Materialia</i> , <b>1993</b> , 3, 459-467		18
208	Synthesis of amorphous phase in Ti?Ni?Cu system by mechanical alloying. <i>Scripta Metallurgica Et Materialia</i> , <b>1990</b> , 24, 1819-1824		18
207	Production, Kinetic Study and Properties of Fe-Based Glass and Its Composites. <i>Materials and Manufacturing Processes</i> , <b>2010</b> , 25, 592-597	4.1	17
206	Study on aluminium-based single films. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 6415-25	3.6	17
205	Identification of compositions with highest glass forming ability in multicomponent systems by thermodynamic and topological approaches. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2007</b> , 449-451, 211-214	5.3	17
204	Phase evolution of refractory high-entropy alloy CrMoNbTiW during mechanical alloying and spark plasma sintering. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 756-766	2.5	16
203	Crystallographic-shear-phase-driven W18O49 nanowires growth on nanocrystalline W surfaces. <i>Scripta Materialia</i> , <b>2016</b> , 115, 28-32	5.6	16
202	Synthesis, characterization and mechanical behaviour of an in situ consolidated nanocrystalline FeCrNi alloy. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 1562-1566	4.3	16
201	A comparative study of structural and electrical properties of Ba0.8Pb0.2TiO3 nanocrystalline ceramics prepared by microwave and spark plasma sintering. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 142, 686-691	4.4	16

200	Nanocrystalline Pb(Zr0.52Ti0.48)O3Ferroelectric Ceramics: Mechanical and Electrical Properties. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-8	3.2	16	
199	Characterization of silver selenide thin films grown on Cr-covered Si substrates. <i>Surface and Interface Analysis</i> , <b>2009</b> , 41, 170-178	1.5	16	
198	Size effect of Pb0.92Nd0.08(Zr0.53Ti0.47)0.98O3 nanoceramic synthesized by high-energy ball milling. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 104305	2.5	16	
197	Face-centered-cubic to Hexagonal-close-packed Transformation in Nanocrystalline Ni(Si) by Mechanical Alloying. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1429-1432	2.5	16	
196	Synthesis of nanocrystalline alloys and intermetallics by mechanical alloying. <i>Bulletin of Materials Science</i> , <b>1996</b> , 19, 939-956	1.7	16	
195	Mechanical alloying目 novel synthesis route for amorphous phases. <i>Bulletin of Materials Science</i> , <b>1993</b> , 16, 1-17	1.7	16	
194	Micro indentation study on Cu60Zr20Ti20 metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 550, 160-166	5.3	15	
193	XRD Characterization of Microstructural Evolution During Mechanical Alloying of W-20 wt%Mo.  Transactions of the Indian Institute of Metals, 2013, 66, 409-414	1.2	15	
192	Amorphization in equiatomic high entropy alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2015</b> , 413, 8-14	3.9	15	
191	Hot hardness behaviour of ultrafine grained ferritic oxide dispersion strengthened alloys prepared by mechanical alloying and spark plasma sintering. <i>Materials Science &amp; Description of Materials: Properties, Microstructure and Processing,</i> <b>2012</b> , 558, 492-496	5.3	15	
190	Influence of bias voltage on dielectric relaxation of nanocrystalline anatase TiO2 using modulus formalism. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 084116	2.5	15	
189	Precipitation kinetics in Al-Si-Mg/TiB2 in-situ composites. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 123-126	1.2	15	
188	Temperature and structure dependency of solid[]quid interfacial energy. Acta Materialia, 2009, 57, 3422-	8.430	15	
187	Prediction of maximum homogeneous nucleation temperature for crystallization of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 5257-5264	3.9	15	
186	Influence of thermo-mechanical treatment of AlBTi master alloy on its grain refining performance on aluminium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 351, 237-243	5.3	15	
185	Improvement in tensile strength and load bearing capacity during dry wear of AllISi alloy by combined grain refinement and modification. <i>Materials Science &amp; Description of Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 395, 323-326	5.3	15	
184	Influence of chromium and impurities on the grain- refining behavior of aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1996</b> , 27, 791-800	2.3	15	
183	Synthesis of nanocrystalline NiAl over a wide composition range by mechanical alloying. <i>Bulletin of Materials Science</i> , <b>1996</b> , 19, 565-571	1.7	15	

182	Processing and characterization of in-situ TiB2 stabilized closed cell aluminium alloy composite foams. <i>Materials and Design</i> , <b>2016</b> , 101, 245-253	8.1	15
181	Localized pore evolution assisted densification during spark plasma sintering of nanocrystalline W-5wt.%Mo alloy. <i>Scripta Materialia</i> , <b>2019</b> , 159, 41-45	5.6	15
180	Investigation of microstructure and microhardness of pure W and W-2Y2O3 materials before and after ion-irradiation. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2014</b> , 46, 168-172	4.1	14
179	Topologically Close-packed Phase Formation in High Entropy Alloys: A Review of Calphad and Experimental Results. <i>Jom</i> , <b>2017</b> , 69, 2113-2124	2.1	14
178	Dielectric, magnetic and enhanced magnetoelectric response in high energy ball milling assisted BST-NZF particulate composite. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 167, 338-346	4.4	14
177	Influence of oxides on the stability of zinc foam. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7806-7814	4.3	14
176	Analysis of the secondary phases in the microstructure of 319 type Al alloy engine blocks using electron microscopy and nanoindentation. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 7-11	1.2	14
175	Influence of Mg on Grain Refinement of Near Eutectic Al-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 2028-2039	2.3	14
174	Ferromagnetic-Dielectric Ni0.5Zn0.5Fe1.9O4/PbZr0.52Ti0.48O3Particulate Composites: Electric, Magnetic, Mechanical, and Electromagnetic Properties. <i>Advances in Condensed Matter Physics</i> , <b>2010</b> , 2010, 1-14	1	14
173	On the prediction of solidliquid interfacial energy of glass forming liquids from homogeneous nucleation theory. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 454-455, 654-661	5.3	14
172	Fabrication of W-Cu functionally graded composites using high energy ball milling and spark plasma sintering for plasma facing components. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 3657-3666	4.6	14
171	Influence of mechanically activated annealing on phase evolution in Al0.3CoCrFeNi high-entropy alloy. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 14588-14598	4.3	13
170	Multiferroic properties of lead-free Ni0.5Zn0.5Fe1.9O4Na0.5Bi0.5TiO3 composites synthesized by spark plasma sintering. <i>Ceramics International</i> , <b>2015</b> , 41, 6882-6888	5.1	13
169	Prediction of Bulk Metallic Glass Formation in CuarAgHf System by Thermodynamic and Topological Modeling. <i>Transactions of the Indian Institute of Metals</i> , <b>2012</b> , 65, 827-831	1.2	13
168	Effect of milling energy on mechanical activation of (Mo + Si3N4) powders during the synthesis of Si3N4MoSi2 in situ composites. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 2069-2077	6	13
167	Internal friction and longitudinal modulus behaviour of multiferroic PbZr0.52Ti0.48O3+Ni0.93Co0.02Mn0.05Fe1.95O4particulate composites. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 7565-7571	3	13
166	Development of Ni-Al2O3 In-Situ Nanocomposite by Reactive Milling and Spark Plasma Sintering.  Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2085-209	9 <del>3</del> ·3	12
165	Effect of TiAl3 particles size and distribution on their settling and dissolution behaviour in aluminium. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 2921-2929	4.3	12

164	Response of an Altr alloy towards grain refinement by Altri-1B master alloy. <i>International Journal of Cast Metals Research</i> , <b>1996</b> , 9, 125-132	1	12
163	Synthesis of nanocrystalline half-Heusler TiNiSn by mechanically activated annealing. <i>Materials Letters</i> , <b>2017</b> , 205, 114-117	3.3	11
162	Magnetoelectric properties of lead-free Ni0.93Co0.02Mn0.05Fe1.95O4Na0.5Bi0.5TiO3 multiferroic composites synthesized by spark plasma sintering. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 386, 44-49	2.8	11
161	Thermoelectric properties of CoSb with BiTe nanoinclusions. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 095701	1.8	11
160	Porosity alleviation and mechanical property improvement of strontium modified A356 alloy by ultrasonic treatment. <i>Materials Science &amp; Discretials A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 724, 586-593	5.3	11
159	Two strain-hardening mechanisms in nanocrystalline austenitic steel: An in situ synchrotron X-ray diffraction study. <i>Scripta Materialia</i> , <b>2012</b> , 66, 690-693	5.6	11
158	Ultrafine-grained, high-strength NiAl with Al2O3 and Al4C3 nanosized particles dispersed via mechanical alloying in toluene with spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 585, 379-386	5.3	11
157	Dilatometric analysis on shrinkage behavior during non-isothermal sintering of nanocrystalline tungsten mechanically alloyed with molybdenum. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S41-S44	5.7	11
156	Identification of Bulk Metallic Forming Compositions through Thermodynamic and Topological Models. <i>Materials Science Forum</i> , <b>2010</b> , 649, 67-73	0.4	11
155	Electrical and magnetic properties of nanocrystalline BiFeO3 prepared by high energy ball milling and microwave sintering. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 4097-102	1.3	11
154	Synthesis of (Al65Cu20Fe15)100⊠Six quasicrystalline alloys by mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 334-335, 44-47	3.9	11
153	Stability of nanocrystalline disordered NiAl synthesized by mechanical alloying. <i>Philosophical Magazine Letters</i> , <b>2002</b> , 82, 469-475	1	11
152	Friction Welding of Titanium to 304L Stainless Steel Using Interlayers. <i>Praktische Metallographie/Practical Metallography</i> , <b>2011</b> , 48, 188-207	0.3	11
151	Effect of TiB2 particles on aging response of Al\( \text{Al}\( \text{Cu alloy 2004}, 386, 296-296 \)		11
150	Densification mechanisms during reactive spark plasma sintering of Titanium diboride and Zirconium diboride. <i>Philosophical Magazine</i> , <b>2017</b> , 97, 1588-1609	1.6	10
149	Effect of Sn Substitution on the Thermoelectric Properties of Synthetic Tetrahedrite. <i>ACS Applied Materials &amp; District Materials &amp; Dis</i>	9.5	10
148	Graphene nanoplatelets induce crystallographic texturing during reactive spark plasma sintering of titanium diboride. <i>Carbon</i> , <b>2018</b> , 133, 323-334	10.4	10
147	Temperature and frequency dependent electrical properties of NiCuZn ferrite with CuO-rich grain boundary segregation. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 595, 206-212	5.7	10

146	Effect of DC bias on dielectric properties of nanocrystalline CuAlO2. <i>Electronic Materials Letters</i> , <b>2013</b> , 9, 207-211	2.9	10
145	Microwave sintering effect on structural and dielectrical properties of Ba1 $\mathbb{Z}$ (Sr/Pb)xTiO3 (x = 0.2 for Sr and Pb) ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 2141-2150	2.1	10
144	An Overview of High-energy Ball Milled Nanocrystalline Aluminum Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> ,	0.5	10
143	Bio-corrosion and Cytotoxicity Studies on Novel Zr55Co30Ti15 and Cu60Zr20Ti20 Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 2422-243	∂ <sup>.3</sup>	10
142	Carbide-Free Bainitic Weld Metal: A New Concept in Welding of Armor Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 2327-2337	2.5	10
141	Microstructure and Mechanical Property of Fe-Al2O3 Nanocomposites Synthesized by Reactive Milling Followed by Spark Plasma Sintering. <i>Materials Science Forum</i> , <b>2012</b> , 710, 291-296	0.4	10
140	Alloying behaviour in nanocrystalline materials during mechanical alloying. <i>Bulletin of Materials Science</i> , <b>1999</b> , 22, 321-327	1.7	10
139	Differences in the glass-forming ability of rapidly solidified and mechanically alloyed Ti-Ni-Cu alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1995</b> , 196, 237-241	5.3	10
138	Effect of Re on microstructural evolution and densification kinetics during spark plasma sintering of nanocrystalline W. <i>Advanced Powder Technology</i> , <b>2019</b> , 30, 2779-2786	4.6	9
137	Porous copper template from partially spark plasma-sintered Cu-Zn aggregate via dezincification. <i>Bulletin of Materials Science</i> , <b>2014</b> , 37, 743-752	1.7	9
136	Grain size dependent phase transition and superparaelectric behavior of ferroelectric BST. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 461, 10-16	2.8	9
135	Effect of Aluminum-Titanium-Boron Based Grain Refiners on AZ91E Magnesium Alloy Grain Size and Microstructure. <i>International Journal of Metalcasting</i> , <b>2011</b> , 5, 29-41	1.4	9
134	Effect of dehydration rate on non-hydrolytic TiO2 thin film processing: Structure, optical and photocatalytic performance studies. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 129, 810-815	4.4	9
133	Size effect studies on nanocrystalline Pb(Zr0.53Ti0.47)O3 synthesized by mechanical activation route. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 338-342	4.4	9
132	Thermodynamic modeling of Zr-Ti-Cu-Ni-Be bulk metallic glass. <i>Transactions of the Indian Institute of Metals</i> , <b>2009</b> , 62, 413-416	1.2	9
131	Oxidation behavior of amorphous and nanoquasicrystalline Zr <b>B</b> d and Zr <b>B</b> t alloys. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 172-181	5.7	9
130	Nanocrystalline Zn Doped PZT Synthesized by Mechanical Alloying. Ferroelectrics, 2005, 325, 65-74	0.6	9
129	Investigation of Structural and Diffuse Phase Transition of New Nano Lead-Free System xBAO [] yBZT [[1 [k [k]) BCT. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 5241-5250	2.3	8

128	Crystallite size effect on voltage tunable giant dielectric permittivity of nanocrystalline CuO. <i>Electronic Materials Letters</i> , <b>2013</b> , 9, 59-62	2.9	8
127	Origin of magnetocapacitance in chemically homogeneous and inhomogeneous ferrites. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 2432-7	3.6	8
126	Thermodynamic Basis for Glass Formation in Cu-Zr Rich Ternary Systems and Their Synthesis by Mechanical Alloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 2363-2370	2.3	8
125	Corrosion characterization on melt spun Cu60Zr20Ti20 metallic glass: An experimental case study. Journal of Non-Crystalline Solids, <b>2013</b> , 379, 48-53	3.9	8
124	Studies on hot rolled galvanized steel sheets: Effect of reheating on galvanizing. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 3465-3471	4.4	8
123	Studies on hot-rolled galvanized steel sheets: Segregation of alloying elements at the surface. <i>Scripta Materialia</i> , <b>2008</b> , 59, 522-525	5.6	8
122	Atomic force microscopy study of thermal stability of silver selenide thin films grown on silicon. <i>Applied Surface Science</i> , <b>2006</b> , 252, 7975-7982	6.7	8
121	Synthesis of Si3N4MoSi2 in situ composite from mechanically activated (Mo+Si3N4) powders. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 381, 254-257	5.7	8
120	Corrosion and oxidation behavior of amorphous and nanoquasicrystalline phases in Zr70Pd30 and Zr80Pt20 alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 334-335, 544-547	3.9	8
119	An investigation on the transformation of the decagonal phase to a B2 phase in Alfuto alloy during mechanical milling. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 342, 38-41	5.7	8
118	Effect of Al addition and homogenization treatment on the magnetic properties of CoFeMnNi high-entropy alloy. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 17204-17217	4.3	8
117	Novel coalescence-driven grain-growth mechanism during annealing/spark plasma sintering of NiO nanocrystals. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 4973-4977	6	7
116	Thermoelectric properties of half-Heusler high-entropy Ti2NiCoSn1-xSb1+x (x = 0.5, 1) alloys with VEC>18. <i>Scripta Materialia</i> , <b>2020</b> , 186, 375-380	5.6	7
115	Photo-induced monomer/dimer kinetics in methylene blue degradation over doped and phase controlled nano-TiO2 films. <i>RSC Advances</i> , <b>2016</b> , 6, 43563-43573	3.7	7
114	Dealloying kinetics and mechanism of porosity evolution in mechanically alloyed Ag25Zn75 powder particles. <i>Corrosion Science</i> , <b>2018</b> , 139, 155-162	6.8	7
113	Influence of Coincidence Site Lattice Boundary on Creep Resistance of P91 Steel Weldments. <i>Procedia Engineering</i> , <b>2014</b> , 86, 80-87		7
112	Design of an Ideal Grain-Refiner Alloy for Al-7Si Alloy Using Artificial Neural Networks. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 696-699	1.6	7
111	A two-step method for synthesis of micron sized nanoporous silver powder and ZnO nanoparticles. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 2532-2541	4.6	7

110	On Prediction of Amorphous Phase Forming Compositions in the Iron-Rich Fe-Zr-B Ternary System and Their Synthesis. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3913-3920	2.3	7
109	Characterization of Ferrite in Tempered Martensite of Modified 9Cr-1Mo Steel Using the Electron Backscattered Diffraction Technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3849-3852	2.3	7
108	Thermal Stability of Vacuum Hot Pressed Bulk Nanostructured Al-Cu Alloys. <i>Materials Science Forum</i> , <b>2011</b> , 690, 234-237	0.4	7
107	Surface oxides and their effect on the oxidation behavior of amorphous and nanoquasicrystalline Zr-Pd and Zr-Pt alloys. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 639-646	2.5	7
106	On amorphization and nanocomposite formation in Al-Ni-Ti system by mechanical alloying <b>2005</b> , 65, 83 <sup>-7</sup>	1-840	7
105	Icosahedral Phase Formation Domain in Altufe System by Mechanical Alloying. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 653-659	2.5	7
104	Crystallization studies on amorphous AI-Y-Ni and AI-Y-Cu alloys. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 6091-6095	4.3	7
103	High-Energy Ball Milling Parameters in Production of Nanocrystalline Al Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 7-28	0.5	7
102	Low temperature synthesis of nanocrystalline Y2Ti2O7, Y2Zr2O7, Y2Hf2O7 with exceptional hardness by reverse co-precipitation technique. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 837, 155491	5.7	7
101	Microstructural homogenization and substantial improvement in corrosion resistance of mechanically alloyed FeCoCrNiCu high entropy alloys by incorporation of carbon nanotubes. <i>Materialia</i> , <b>2020</b> , 14, 100917	3.2	7
100	Challenges in design and development of high entropy alloys: A thermodynamic and kinetic perspective. <i>Scripta Materialia</i> , <b>2020</b> , 188, 37-43	5.6	7
99	Novel Multicomponent B2-Ordered Aluminides: Compositional Design, Synthesis, Characterization, and Thermal Stability. <i>Metals</i> , <b>2020</b> , 10, 1411	2.3	7
98	Phase evolution and mechanical properties of novel nanocrystalline Y2(TiZrHfMoV)2O7 high entropy pyrochlore. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 82, 214-226	9.1	7
97	Effect of milling on the oxidation kinetics of Aluminium + Boron mixture and nanocrystalline Aluminium Boride (AlB12). <i>Thermochimica Acta</i> , <b>2019</b> , 678, 178306	2.9	6
96	Influence of processing route on the alloying behavior, microstructural evolution and thermal stability of CrMoNbTiW refractory high-entropy alloy. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1556-157	<b>1</b> <sup>2.5</sup>	6
95	Mechanochemical synthesis of nanocrystalline aluminium boride (AlB12). <i>Ceramics International</i> , <b>2018</b> , 44, 20105-20110	5.1	6
94	Analysis of Mechanical Milling in Simoloyer: An Energy Modeling Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 1323-1327	2.3	6
93	Understanding room temperature deformation behavior through indentation studies on modified 9Cra Mosteel weldments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 552, 419-426	5.3	6

### (2015-2011)

92	Study of Deformation Behavior of Simulated Inter-Critical Heat-Affected Zones of Modified 9Cr-1Mo Steel. <i>Materials and Manufacturing Processes</i> , <b>2011</b> , 26, 62-65	4.1	6
91	Formation of nanostructured and amorphous EAl3Mg2 based alloys by rapid solidification and mechanical milling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 5078-5083	5.3	6
90	Influence of thermodynamics and local geometry on glass formation in Zr based alloys. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 061903	3.4	6
89	Oxidation behavior of Alluee nanoquasicrystal powders. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 334-335, 540-543	3.9	6
88	Thermal stability of nanocrystalline fcc and hcp Ni(Si) synthesized by mechanical alloying of Ni90Si10. <i>Philosophical Magazine Letters</i> , <b>2001</b> , 81, 77-84	1	6
87	Effect of non-stoichiometry on the ordering behaviour of nanocrystalline NiAl produced by mechanical alloying. <i>Journal of Materials Science Letters</i> , <b>1996</b> , 15, 2171		6
86	On the effect of Fe in L12 strengthened Altotr#eNiTi complex concentrated alloy. <i>Materialia</i> , <b>2020</b> , 14, 100909	3.2	6
85	Evaluating the influence of microstructural attributes: Fraction, composition, size and spatial distribution of phases on the oxidation behaviour of high-entropy alloys. <i>Corrosion Science</i> , <b>2021</b> , 184, 109381	6.8	6
84	Composite of medium entropy alloys synthesized using spark plasma sintering. <i>Scripta Materialia</i> , <b>2021</b> , 191, 46-51	5.6	6
83	Comparison of Different Processing Routes for the Synthesis of Semiconducting AlSb. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 6196-6205	1.6	6
82	Structural, dielectric and ferroelectric properties of lead-free Na0.5Bi0.5TiO3 ceramics prepared by spark plasma sintering technique. <i>Indian Journal of Physics</i> , <b>2016</b> , 90, 131-138	1.4	5
81	Spark Plasma Sintering Temperature Effect on Structural, Dielectric and Ferroelectric Properties of Ba0.9Sr0.1TiO3 Nanocrystalline Ceramics. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 4308-4315	1.9	5
80	Identifying non-equiatomic high entropy bulk metallic glass formers through thermodynamic approach: A theoretical perspective. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 450, 164-173	3.9	5
79	Microstructural and Mechanical Characterization of Two Aluminium Based In Situ Composite Foams. <i>Transactions of the Indian Institute of Metals</i> , <b>2012</b> , 65, 595-600	1.2	5
78	Effect of Al-Ti-B Based Master Alloys on Grain Refinement and Hot Tearing Susceptibility of AZ91E Magnesium Alloy. <i>Materials Science Forum</i> , <b>2011</b> , 690, 351-354	0.4	5
77	APFIM and TEM study of the oxygen behavior during crystallization of Zr65Cu27.5Al7.5 metallic glass. <i>Materials Science &amp; Discreture and Processing</i> , <b>2001</b> , 304-306, 706-709	5.3	5
76	Thermodynamics of glass formation in pure metals. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>1995</b> , 19, 297-304	1.9	5
75	Phase Transitions Of The Ferroelectric Na0.5Bi0.5TiO3 By Dielectric And Internal Friction Measurements. <i>Advanced Materials Letters</i> , <b>2015</b> , 6, 27-32	2.4	5

74	Suppression of Ephase in nanocrystalline CoCrFeMnNiV high entropy alloy by unsolicited contamination during mechanical alloying and spark plasma sintering. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 255, 123558	4.4	5
73	Design of a novel Allīilīr light-weight alloy: CALPHAD and experiments. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155304	5.7	4
72	Effect of Y2O3 on Spark Plasma Sintering Kinetics of Nanocrystalline 9Cr-1Mo Ferritic Oxide Dispersion-Strengthened Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4037-4041	2.3	4
71	Effect of Boron on Creep Behaviour of Inter-Critically Annealed Modified 9Cr-1Mo Steel. <i>Procedia Engineering</i> , <b>2013</b> , 55, 402-407		4
70	Thermodynamic criteria for bulk metallic glass formation in Zr rich quaternary system 2012,		4
69	Thermodynamic Model and Synthesis of Bulk Metallic Glass in Cu-Zr-Ti System by Mechanical Alloying. <i>Materials Science Forum</i> , <b>2011</b> , 675-677, 189-192	0.4	4
68	Nanoscale structure-property relations in Sm modified lead zirconate titanate. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 3106-11	1.3	4
67	Anomalous behavior of glass-forming ability and mechanical response in a series of equiatomic binary to denary metallic glasses. <i>Materialia</i> , <b>2020</b> , 9, 100505	3.2	4
66	Tracer diffusion in ordered pseudo-binary multicomponent aluminides. <i>Scripta Materialia</i> , <b>2020</b> , 178, 227-231	5.6	4
65	Synthesis of hydrophobic Ni-VN alloy powder by ball milling. <i>Advanced Powder Technology</i> , <b>2019</b> , 30, 1600-1610	4.6	3
64	Interpreting room temperature deformation of Zr67Cu33 metallic glass through Voronoi cluster dynamics. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 454, 59-69	3.9	3
63	Conventional and Spark Plasma Sintered Ba0.8Pb0.2TiO3 Nano Ceramics: Structural, Dielectric, and Ferroelectric Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 2579-2586	2.3	3
62	Preparation and characterisation of fine-grained barium lead titanate ceramics by spark plasma sintering technique. <i>Materials Research Innovations</i> , <b>2016</b> , 20, 81-85	1.9	3
61	On the Structural Stability of Melt Spun Ribbons of Fe95\(\mathbb{\textit{Z}}\) Zr x B4Cu1 (x = 7 and 9) Alloys and Correlation with Their Magnetic Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 560-571	2.3	3
60	Simultaneous increase in thermopower and electrical conductivity through Ta-doping and nanostructuring in half-Heusler TiNiSn alloys. <i>Materialia</i> , <b>2019</b> , 7, 100410	3.2	3
59	Influence of TiB2 Addition on the Precipitation Kinetics in Al-7Si-0.3Mg In Situ TiB2 Composites.  Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2844-284	<i>3</i> -3	3
58	Influence of Surfactant Variation on Effective Anisotropy and Magnetic Properties of Mechanically Milled Magnetite Nanoparticles and Their Biocompatibility. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	3
57	Synthesis of Nanocrystalline Hal2O3 from Nanocrystalline Boehmite Derived from High Energy Ball Milling of Gibbiste. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 535-540	1.2	3

56	Characterization of microstructure and precipitation behavior in Al-4Cu-xTiB2 in-situ composite. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 117-121	1.2	3
55	Development of a Thermodynamic Criterion to Predict the Alloy Compositions for Amorphous and Nanocrystalline Phase Formation during Mechanical Alloying. <i>Defect and Diffusion Forum</i> , <b>2008</b> , 279, 147-151	0.7	3
54	Nanoindentation studies on amorphous, nanoquasicrystalline and nanocrystalline Zr8oPt2o and Zr75Pd25 alloys. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 658-62	1.3	3
53	Microstructure of Rapidly Solidified High Strength Al94V4Fe2 Alloy. <i>Materials Transactions</i> , <b>2003</b> , 44, 1993-1998	1.3	3
52	Formation of quasicrystalline related intermetallic compounds in conventionally cast Alflelv i alloy. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 334-335, 29-32	3.9	3
51	Microstructure evolution and densification during spark plasma sintering of nanocrystalline W-5wt.%Ta alloy. <i>Philosophical Magazine Letters</i> , <b>2020</b> , 100, 442-451	1	3
50	Strengthening mechanisms in CrMoNbTiW refractory high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 819, 141503	5.3	3
49	Preferential phonon scattering and low energy carrier filtering by interfaces of formed InSb nanoprecipitates and GaSb nanoinclusions for enhanced thermoelectric performance of InCoSb. <i>Dalton Transactions</i> , <b>2020</b> , 49, 15883-15894	4.3	2
48	Room temperature dynamic indentation response of partially crystallized Zr <b>I</b> Iu metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 834, 155161	5.7	2
47	Structure <b>P</b> roperty Correlation in Fe-Al2O3 In Situ Nanocomposite Synthesized by High-Energy Ball Milling and Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5223-5233	2.3	2
46	Investigation on PZT-Based Nanostructured Functional Materials. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2014</b> , 44, 991-994		2
45	Synthesis and Characterization of Spark Plasma Sintered FeAl and In situ FeAlAl2O3 Composite. <i>Transactions of the Indian Institute of Metals</i> , <b>2013</b> , 66, 419-424	1.2	2
44	Generation of drugs coated iron nanoparticles through high energy ball milling. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 124906	2.5	2
43	Mechanical properties of Ni0.83Co0.15Cu0.02Fe1.9O4\(\textit{HPbZr0.52Ti0.48O3}\) particulate composites by composite oscillator technique and the correlation with the results of magnetoelectric properties. <i>Journal of Advanced Ceramics</i> , <b>2012</b> , 1, 317-326	10.7	2
42	Synthesis and Characterization of CNT Reinforced AA4032 Nanocomposites by High Energy Ball Milling <b>2010</b> ,		2
41	CONSOLIDATION OF CNT-REINFORCED AA4032 NANOCOMPOSITES BY ECAP. <i>International Journal of Nanoscience</i> , <b>2011</b> , 10, 233-236	0.6	2
40	Stress corrosion cracking behaviour of 8090 Alli alloy in a chloride containing medium. <i>Corrosion Engineering Science and Technology</i> , <b>2005</b> , 40, 313-320	1.7	2
39	Future Work and Possible Applications of Nanocrystalline Al Alloys as Produced by High-Energy Ball Milling. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 95-99	0.5	2

Enhanced Thermoelectric Performance in the BaCoSb/InSb Nanocomposite Originating from the 38 Minimum Possible Lattice Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 48729248740 Kinetics and phase formation during crystallization of Hf64Cu18Ni18 amorphous alloy. Phase 1.3 2 37 Transitions, 2021, 94, 110-121 Recent advances in aluminium matrix composites reinforced with graphene-based nanomaterial: A 36 42.2 2 critical review. Progress in Materials Science, 2022, 100948 Role of polyhedral order in glass to crystal transition dynamics in Zr60Cu10Al15Ni15 glass forming 35 3.9 alloy. Journal of Non-Crystalline Solids, 2017, 471, 256-263 Physical metallurgy of high-entropy alloys 2019, 31-50 34 1 Alloy design in the 21st century: ICME, materials genome, and artificial intelligence strategies 2019, 81-101 Icosahedral Cluster Energetics in Zr60Cu10Al15Ni15 Bulk Metallic Glass and Their Role on 32 1.2 1 Solidification Behavior. Transactions of the Indian Institute of Metals, 2015, 68, 1107-1112 Isothermal Grain Growth Studies on Nanostructured 9Cr-1Mo and 9Cr-1W Ferritic Steels Containing Nano-sized Oxide Dispersoids. Metallurgical and Materials Transactions A: Physical Metallurgy and 31 2.3 Materials Science, 2014, 45, 1684-1688 Nanocomposites of Aluminum Alloys by Rapid Solidification Processing. Transactions of the Indian 30 1.2 1 Institute of Metals, 2012, 65, 647-651 Compression creep studies of mechanically alloyed nanostructured Fe-12Cr-2W-0.25Y2O3ODS 29 0.3 alloy. Journal of Physics: Conference Series, 2010, 240, 012090 Spark Plasma Sintering of Fe-Cr-Mo-P-B-C-Si Amorphous Alloy. Materials Science Forum, 2012, 710, 320-3854 28 Microstructure engineering of materials. International Journal of Advances in Engineering Sciences 0.6 27 and Applied Mathematics, 2010, 2, 125-125 Prediction of carbon segregation on the surface of continuously annealed hot-rolled LCAK steel. 26 4.4 1 Surface and Coatings Technology, 2010, 205, 2051-2054 Determination of kinetic parameters for devitrification of metallic glass A theoretical approach. 25 1.2 1 Transactions of the Indian Institute of Metals, 2008, 61, 319-324 Finite Element Model in Nanoindentation to Study Nonlinear Behavior of Nanoceramic PGZT. 24 4.1 1 Materials and Manufacturing Processes, **2007**, 22, 337-340 Evolution of phase constitution with mechanical alloying and spark plasma sintering of nanocrystalline AlxCoCrFeNi (x = 0, 0.3, 0.6, 1 mol) high-entropy alloys. *Journal of Materials* 23 2.5 1 Research, **2022**, 37, 959 Mechanical Properties of High-Energy Ball Milled Nanocrystalline Al Alloys. SpringerBriefs in 22 0.5 1 Materials, 2017, 45-59 Thermal Stability of High-Energy Ball Milled Al Alloys. SpringerBriefs in Materials, 2017, 61-69 21

## (2021-2020)

Atomic transport in B2-ordered Al(Fe,Ni) alloys: Tracer-interdiffusion couple approach.  Intermetallics, 2020, 126, 10820  Strength-Ductility Synergy in High Entropy Alloys by Tuning the Thermo-Mechanical Process Parameters: A Comprehensive Review Journal of the Indian Institute of Science, 2022, 1-26  24 1  Alloy design and phase selection rules in high-entropy alloys 2019, 51-79  control of UFG Microstructure in Welded Carbon Steel Tubes by Cold Drawing and Annealing. Transactions of the Indian Institute of Metals, 2014, 67, 681-690  MAGNETO-ELECTRIC EFFECT IN MULTIFERROIC  14 Nio.93Co.002Mno.05Fe1.9504/PbZr0.52Tio.4803 PARTICULATE COMPOSITES: DIELECTRIC, PIEZOELECTRIC PROPERTIES. Modern Physics Letters B, 2011, 25, 345-358  13 Phase Stability of Rapidly Solidified (Fe18Nio.882T/T84Cu1 Ribbons. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 560-573  14 Effect of Processing Routes on the Microstructure and Thermoelectric Properties of Half-Heusler TiFe0.5Nio.55b1BSnx (x = 0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance,1  15 Solid solution phases and their microstructures in HEAS 2019, 119-144  16 Structural properties 2019, 233-246  8 Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe86Zr7iNhbx8Gcu1 Alloy Ribbons. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  2 Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1151-1154  Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. Advanced Powder Technology, 2020, 31, 3093-3101  5 Processing of [(Fe0.5Co0.5)0.75B0.25i0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  4 Microwave sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  4 Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multic	20	CALPHAD and rule-of-mixtures: A comparative study for refractory high entropy alloys. <i>Intermetallics</i> , <b>2020</b> , 127, 106926	3.5	1
Parameters: A Comprehensive Review Journal of the Indian Institute of Science, 2022, 1-26  17 Alloy design and phase selection rules in high-entropy alloys 2019, 51-79  18 Synthesis and processing 2019, 103-117  19 Control of UFG Microstructure in Welded Carbon Steel Tubes by Cold Drawing and Annealing. 10 Transactions of the Indian Institute of Metals, 2014, 67, 681-690  MAGNETO-ELECTRIC EFFECT IN MULTIFERROIC 11 NIO.93Co.002Mn0.05Fe1.9504/Pb2ro.52Ti0.4803 PARTICULATE COMPOSITES: DIELECTRIC, PIEZOELECTRIC POPERTIES. Modern Physics Letters 8, 2011, 25, 345-358  19 Phase Stability of Rapidly Solidified (Fe1Rixi) 882/7184Cu1 Ribbons. Metallurgical and Materials 17 Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 560-573  20 Effect of Processing Routes on the Microstructure and Thermoelectric Properties of Half-Heusler 11 TiFe0.5NiO.55b185nx (x = 0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance, 1 12 Solid solution phases and their microstructures in HEAs 2019, 119-144  13 Structural properties 2019, 195-232  9 Functional properties 2019, 195-232  9 Functional properties 2019, 195-232  9 Functional properties 2019, 195-232  14 Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  15 Processing of [(Fe0.5Co.0.5)0.75B0.25i0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  12 Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	19		3.5	1
Control of UFG Microstructure in Welded Carbon Steel Tubes by Cold Drawing and Annealing. Transactions of the Indian Institute of Metals, 2014, 67, 681-690  MAGNETO-ELECTRIC EFFECT IN MULTIFERROIC Ni0.93Co.0.02Mn.0.05Fe.1.95.04-JPb.270.52Ti0.4803 PARTICULATE COMPOSITES: DIELECTRIC, PIEZOELECTRIC PROPERTIES. Modern Physics Letters B, 2011, 25, 345-358  Phase Stability of Rapidly Solidified (Fe Ilikink) 8827-784Cut Ribbons. Metallurgical and Materials Transactions At Physical Metallurgy and Materials Science, 2021, 52, 560-573  2.3 0  Effect of Processing Routes on the Microstructure and Thermoelectric Properties of Half-Heusler TiFe0.5Ni0.55b1B5nx (x = 0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance, 1  Solid solution phases and their microstructures in HEAs 2019, 119-144  Structural properties 2019, 195-232  Functional properties 2019, 233-246  Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe86Zr7BNbxB6Cu1 Alloy Ribbons. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1151-1154  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Processing of [(Fe0 SCo. 5)0.7580.25i0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2013, 71, 309-317  Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	18		2.4	1
Control of UFG Microstructure in Welded Carbon Steel Tubes by Cold Drawing and Annealing.  Transactions of the Indian Institute of Metals, 2014, 67, 681-690  MAGNETO-ELECTRIC EFFECT IN MULTIFERROIC  Ni0.93Co.0.02Mn0.05Fe1.9504/Pb270.52Ti0.4803 PARTICULATE COMPOSITES: DIELECTRIC, PIEZOELECTRIC PROPERTIES. Modern Physics Letters B, 2011, 25, 345-358  13 Phase Stability of Rapidly Solidified (Fe18Nix)882/T84Cu1 Ribbons. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 560-573  23 O  Effect of Processing Routes on the Microstructure and Thermoelectric Properties of Half-Heusler TiFe0.5Ni0.55b18Snx (x = 0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance,1  Solid solution phases and their microstructures in HEAs 2019, 119-144  Structural properties 2019, 195-232  Functional properties 2019, 233-246  Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe862r78NbxB6Cu1 Alloy Ribbons. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1151-1154  Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. Advanced Powder Technology, 2020, 31, 3093-3101  4.6  Processing of [(Fe0.5Co0.5)0.7580.25i0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	17	Alloy design and phase selection rules in high-entropy alloys <b>2019</b> , 51-79		O
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Effect of Processing Routes on the Microstructure and Thermoelectric Properties of Half-Heusler TiFe0.5Ni0.55b1\( \text{MSnx}\) (x = 0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance, 1  Solid solution phases and their microstructures in HEAs 2019, 119-144  Structural properties 2019, 195-232  Functional properties 2019, 233-246  Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe86Zr7\( \text{MNbxB6Cu1}\) Alloy Ribbons. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1151-1154  Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. Advanced Powder Technology, 2020, 31, 3093-3101  Processing of [(Fe0.5Co0.5)0.75B0.25i0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	14	Ni0.93Co0.02Mn0.05Fe1.95O4-/PbZr0.52Ti0.48O3 PARTICULATE COMPOSITES: DIELECTRIC,	1.6	0
TiFe0.5Ni0.5Sb1\(\mathbb{R}\)six (x = 0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance,1  Solid solution phases and their microstructures in HEAs 2019, 119-144  Structural properties 2019, 195-232  Functional properties 2019, 233-246  Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe86Zr7\(\mathbb{R}\)INDSB6Cu1 Alloy Ribbons. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1151-1154  Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. Advanced Powder Technology, 2020, 31, 3093-3101  Processing of [(Fe0.5Co0.5)0.75B0.2Si0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	13		2.3	O
Functional properties 2019, 195-232  Functional properties 2019, 233-246  Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe86Zr7\(\mathbb{R}\) NbxB6Cu1 Alloy Ribbons. Transactions of the Indian Institute of Metals, 2015, 68, 1047-1051  Factors Influencing Oxidation Behavior of Metallic Glasses. Transactions of the Indian Institute of Metals, 2015, 68, 1151-1154  Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. Advanced Powder Technology, 2020, 31, 3093-3101  Processing of [(Fe0.5Co0.5)0.75B0.2Si0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317  Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	12		1.6	0
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<ul> <li>Metals, 2015, 68, 1151-1154</li> <li>Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. Advanced Powder Technology, 2020, 31, 3093-3101</li> <li>Processing of [(Fe0.5Co0.5)0.75B0.2Si0.05]96Nb4 Bulk Metallic Glass Alloy by Cu Mould Casting and Spark Plasma Sintering. Transactions of the Indian Institute of Metals, 2018, 71, 309-317</li> <li>Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 262-9</li> <li>Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics</li> </ul>	8		1.2	
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and Spark Plasma Sintering. <i>Transactions of the Indian Institute of Metals</i> , <b>2018</b> , 71, 309-317  Microwave sintering studies on low loss (Zn, Mg)TiO3 dielectric resonator materials. <i>Journal of Microwave Power and Electromagnetic Energy</i> , <b>2013</b> , 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. <i>Ceramics</i>	6		4.6	
4 Microwave Power and Electromagnetic Energy, 2013, 47, 262-9  Low temperature synthesis of multicomponent perovskite by mechanochemical route. Ceramics	5		1.2	
	4		1.4	
<sup>3</sup> International, <b>2021</b> , 48, 6385-6385	3	Low temperature synthesis of multicomponent perovskite by mechanochemical route. <i>Ceramics International</i> , <b>2021</b> , 48, 6385-6385	5.1	

2	Consolidation of High-Energy Ball Milled Nanocrystalline Al Powders. SpringerBriefs in Materials,
	<b>2017</b> , 29-43

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Preface on International Conference on Solidification Science and Processing. *Transactions of the Indian Institute of Metals*, **2018**, 71, 2615-2615

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