Bs S Murty

List of Publications by Year in Descending Order

397 papers	13,066 citations	56 h-index	96 g-index
403 ext. papers	14,814 ext. citations	3.9 avg, IF	6.89 L-index

#	Paper	IF	Citations
397	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 Research*, **2022**, 37, 959	2.5	1
396	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	2.4	1
395	Recent advances in aluminium matrix composites reinforced with graphene-based nanomaterial: A critical review. *Progress in Materials Science*, **2022**, 100948	42.2	2
394	Low temperature synthesis of multicomponent perovskite by mechanochemical route. *Ceramics International*, **2021**, 48, 6385-6385	5.1	
393	Evaluating the influence of microstructural attributes: Fraction, composition, size and spatial distribution of phases on the oxidation behaviour of high-entropy alloys. *Corrosion Science*, **2021**, 184, 109381	6.8	6
392	Composite of medium entropy alloys synthesized using spark plasma sintering. *Scripta Materialia*, **2021**, 191, 46-51	5.6	6
391	Multiscale mechanical performance and corrosion behaviour of plasma sprayed AlCoCrFeNi high-entropy alloy coatings. *Journal of Alloys and Compounds*, **2021**, 854, 157140	5.7	38
390	Effect of crystal structure and grain size on corrosion properties of AlCoCrFeNi high entropy alloy. *Journal of Alloys and Compounds*, **2021**, 863, 158056	5.7	20
389	Phase Stability of Rapidly Solidified (Fe1 Nix)88Zr7B4Cu1 Ribbons. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 560-573	2.3	0
388	Kinetics and phase formation during crystallization of Hf64Cu18Ni18 amorphous alloy. *Phase Transitions*, **2021**, 94, 110-121	1.3	2
387	Strengthening mechanisms in CrMoNbTiW refractory high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 819, 141503	5.3	3
386	Phase evolution and mechanical properties of novel nanocrystalline Y2(TiZrHfMoV)2O7 high entropy pyrochlore. *Journal of Materials Science and Technology*, **2021**, 82, 214-226	9.1	7
385	Preferential phonon scattering and low energy carrier filtering by interfaces of formed InSb nanoprecipitates and GaSb nanoinclusions for enhanced thermoelectric performance of InCoSb. *Dalton Transactions*, **2020**, 49, 15883-15894	4.3	2
384	Room temperature dynamic indentation response of partially crystallized Zr Cu metallic glass. *Journal of Alloys and Compounds*, **2020**, 834, 155161	5.7	2
383	Influence of processing route on the alloying behavior, microstructural evolution and thermal stability of CrMoNbTiW refractory high-entropy alloy. *Journal of Materials Research*, **2020**, 35, 1556-1571	2.5	6
382	Thermoelectric properties of half-Heusler high-entropy Ti2NiCoSn1-xSb1+x (x = 0.5, 1) alloys with VEC>18. *Scripta Materialia*, **2020**, 186, 375-380	5.6	7
381	Influence of Al content on thermal stability of nanocrystalline AlxCoCrFeNi high entropy alloys at low and intermediate temperatures. *Advanced Powder Technology*, **2020**, 31, 1985-1993	4.6	19

380	Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. *Advanced Powder Technology*, **2020**, 31, 3093-3101	4.6	
379	Design of a novel Al□Ti2r light-weight alloy: CALPHAD and experiments. *Journal of Alloys and Compounds*, **2020**, 835, 155304	5.7	4
378	Microstructure and mechanical properties of a high entropy alloy with a eutectic composition (AlCoCrFeNi2.1) synthesized by mechanical alloying and spark plasma sintering. *Journal of Alloys and Compounds*, **2020**, 835, 155424	5.7	22
377	Thermal Spray High-Entropy Alloy Coatings: A Review. *Journal of Thermal Spray Technology*, **2020**, 29, 857-893	2.5	64
376	Low temperature synthesis of nanocrystalline Y2Ti2O7, Y2Zr2O7, Y2Hf2O7 with exceptional hardness by reverse co-precipitation technique. *Journal of Alloys and Compounds*, **2020**, 837, 155491	5.7	7
375	Anomalous behavior of glass-forming ability and mechanical response in a series of equiatomic binary to denary metallic glasses. *Materialia*, **2020**, 9, 100505	3.2	4
374	Novel rare-earth and transition metal-based entropy stabilized oxides with spinel structure. *Scripta Materialia*, **2020**, 178, 513-517	5.6	21
373	Tracer diffusion in ordered pseudo-binary multicomponent aluminides. *Scripta Materialia*, **2020**, 178, 227-231	5.6	4
372	CALPHAD and rule-of-mixtures: A comparative study for refractory high entropy alloys. *Intermetallics*, **2020**, 127, 106926	3.5	1
371	Enhanced Thermoelectric Performance in the BaCoSb/InSb Nanocomposite Originating from the Minimum Possible Lattice Thermal Conductivity. *ACS Applied Materials & Interfaces*, **2020**, 12, 48729-48740	9.5	2
370	Effect of Al addition and homogenization treatment on the magnetic properties of CoFeMnNi high-entropy alloy. *Journal of Materials Science*, **2020**, 55, 17204-17217	4.3	8
369	Microstructural homogenization and substantial improvement in corrosion resistance of mechanically alloyed FeCoCrNiCu high entropy alloys by incorporation of carbon nanotubes. *Materialia*, **2020**, 14, 100917	3.2	7
368	Atomic transport in B2-ordered Al(Fe,Ni) alloys: Tracer-interdiffusion couple approach. *Intermetallics*, **2020**, 126, 106920	3.5	1
367	On the effect of Fe in L12 strengthened Al□CoCrFeNi□i complex concentrated alloy. *Materialia*, **2020**, 14, 100909	3.2	6
366	Microstructure evolution and densification during spark plasma sintering of nanocrystalline W-5wt.%Ta alloy. *Philosophical Magazine Letters*, **2020**, 100, 442-451	1	3
365	Challenges in design and development of high entropy alloys: A thermodynamic and kinetic perspective. *Scripta Materialia*, **2020**, 188, 37-43	5.6	7
364	Suppression of □phase in nanocrystalline CoCrFeMnNiV high entropy alloy by unsolicited contamination during mechanical alloying and spark plasma sintering. *Materials Chemistry and Physics*, **2020**, 255, 123558	4.4	5
363	Fabrication of W-Cu functionally graded composites using high energy ball milling and spark plasma sintering for plasma facing components. *Advanced Powder Technology*, **2020**, 31, 3657-3666	4.6	14

362	Novel Multicomponent B2-Ordered Aluminides: Compositional Design, Synthesis, Characterization, and Thermal Stability. *Metals*, **2020**, 10, 1411	2.3	7
361	Understanding the microstructural evolution of high entropy alloy coatings manufactured by atmospheric plasma spray processing. *Applied Surface Science*, **2020**, 505, 144117	6.7	42
360	Effect of Re on microstructural evolution and densification kinetics during spark plasma sintering of nanocrystalline W. *Advanced Powder Technology*, **2019**, 30, 2779-2786	4.6	9
359	Phase evolution of refractory high-entropy alloy CrMoNbTiW during mechanical alloying and spark plasma sintering. *Journal of Materials Research*, **2019**, 34, 756-766	2.5	16
358	Effect of Sn Substitution on the Thermoelectric Properties of Synthetic Tetrahedrite. *ACS Applied Materials & Interfaces*, **2019**, 11, 21686-21696	9.5	10
357	Effect of milling on the oxidation kinetics of Aluminium + Boron mixture and nanocrystalline Aluminium Boride (AlB12). *Thermochimica Acta*, **2019**, 678, 178306	2.9	6
356	Synthesis of hydrophobic Ni-VN alloy powder by ball milling. *Advanced Powder Technology*, **2019**, 30, 1600-1610	4.6	3
355	Physical metallurgy of high-entropy alloys **2019**, 31-50		1
354	Alloy design and phase selection rules in high-entropy alloys **2019**, 51-79		0
353	Alloy design in the 21st century: ICME, materials genome, and artificial intelligence strategies **2019**, 81-101		1
352	Synthesis and processing **2019**, 103-117		0
351	Solid solution phases and their microstructures in HEAs **2019**, 119-144		
350	Structural properties **2019**, 195-232		
349	Grain growth kinetics in CoCrFeNi and CoCrFeMnNi high entropy alloys processed by spark plasma sintering. *Journal of Alloys and Compounds*, **2019**, 791, 1114-1121	5.7	34
348	High-entropy alloys by mechanical alloying: A review. *Journal of Materials Research*, **2019**, 34, 664-686	2.5	131
347	Functional properties **2019**, 233-246		
346	TiNiCoSnSb - a new half-Heusler type high-entropy alloy showing simultaneous increase in Seebeck coefficient and electrical conductivity for thermoelectric applications. *Scientific Reports*, **2019**, 9, 5331	4.9	33
345	Phase evolution and stability of nanocrystalline CoCrFeNi and CoCrFeMnNi high entropy alloys. *Journal of Alloys and Compounds*, **2019**, 770, 1004-1015	5.7	47

344	Influence of mechanically activated annealing on phase evolution in Al0.3CoCrFeNi high-entropy alloy. *Journal of Materials Science*, **2019**, 54, 14588-14598	4.3	13
343	Simultaneous increase in thermopower and electrical conductivity through Ta-doping and nanostructuring in half-Heusler TiNiSn alloys. *Materialia*, **2019**, 7, 100410	3.2	3
342	Localized pore evolution assisted densification during spark plasma sintering of nanocrystalline W-5wt.%Mo alloy. *Scripta Materialia*, **2019**, 159, 41-45	5.6	15
341	Thermal stability of AlCoFeMnNi high-entropy alloy. *Scripta Materialia*, **2019**, 162, 465-467	5.6	34
340	A new approach for synthesis of ZnO nanorod flowerets and subsequent pure free-standing ZnO nanorods. *Advanced Powder Technology*, **2019**, 30, 30-41	4.6	19
339	Microstructure and mechanical properties of as-cast and T6 treated Sc modified A356-5TiB2 in-situ composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 739, 383-394	5.3	19
338	Phase formation and thermal stability of CoCrFeNi and CoCrFeMnNi equiatomic high entropy alloys. *Journal of Alloys and Compounds*, **2019**, 774, 856-864	5.7	65
337	Study of microstructure and magnetic properties of AlNiCo(CuFe) high entropy alloy. *Journal of Alloys and Compounds*, **2018**, 746, 194-199	5.7	52
336	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	1.2	
335	Bulk tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. *Acta Materialia*, **2018**, 146, 211-224	8.4	186
334	Thermoelectric properties of CoSb with BiTe nanoinclusions. *Journal of Physics Condensed Matter*, **2018**, 30, 095701	1.8	11
333	Phase prediction in high entropy alloys □A kinetic approach. *Acta Materialia*, **2018**, 153, 214-225	8.4	28
332	Graphene nanoplatelets induce crystallographic texturing during reactive spark plasma sintering of titanium diboride. *Carbon*, **2018**, 133, 323-334	10.4	10
331	Porosity alleviation and mechanical property improvement of strontium modified A356 alloy by ultrasonic treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 724, 586-593	5.3	11
330	Mechanochemical synthesis of nanocrystalline aluminium boride (AlB12). *Ceramics International*, **2018**, 44, 20105-20110	5.1	6
329	Gibbs energy-composition plots as a tool for high-entropy alloy design. *Journal of Alloys and Compounds*, **2018**, 768, 358-367	5.7	19
328	Dealloying kinetics and mechanism of porosity evolution in mechanically alloyed Ag25Zn75 powder particles. *Corrosion Science*, **2018**, 139, 155-162	6.8	7
327	Experimental assessment of the thermodynamic factor for diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. *Scripta Materialia*, **2018**, 157, 81-85	5.6	27

326	Comparison of Different Processing Routes for the Synthesis of Semiconducting AlSb. *Journal of Materials Engineering and Performance*, **2018**, 27, 6196-6205	1.6	6
325	Preface on International Conference on Solidification Science and Processing. *Transactions of the Indian Institute of Metals*, **2018**, 71, 2615-2615	1.2	
324	Influence of sequence of elemental addition on phase evolution in nanocrystalline AlCoCrFeNi: Novel approach to alloy synthesis using mechanical alloying. *Materials and Design*, **2017**, 126, 37-46	8.1	54
323	Densification mechanisms during reactive spark plasma sintering of Titanium diboride and Zirconium diboride. *Philosophical Magazine*, **2017**, 97, 1588-1609	1.6	10
322	Synthesis of nanocrystalline half-Heusler TiNiSn by mechanically activated annealing. *Materials Letters*, **2017**, 205, 114-117	3.3	11
321	Novel coalescence-driven grain-growth mechanism during annealing/spark plasma sintering of NiO nanocrystals. *Journal of the European Ceramic Society*, **2017**, 37, 4973-4977	6	7
320	Role of polyhedral order in glass to crystal transition dynamics in Zr60Cu10Al15Ni15 glass forming alloy. *Journal of Non-Crystalline Solids*, **2017**, 471, 256-263	3.9	1
319	Deformation behaviour of in-situ TiB2 reinforced A357 aluminium alloy composite foams under compressive and impact loading. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 684, 178-185	5.3	20
318	Radioactive isotopes reveal a non sluggish kinetics of grain boundary diffusion in high entropy alloys. *Scientific Reports*, **2017**, 7, 12293	4.9	63
317	An Overview of High-energy Ball Milled Nanocrystalline Aluminum Alloys. *SpringerBriefs in Materials*, **2017**,	0.5	10
316	Topologically Close-packed Phase Formation in High Entropy Alloys: A Review of Calphad and Experimental Results. *Jom*, **2017**, 69, 2113-2124	2.1	14
315	A two-step method for synthesis of micron sized nanoporous silver powder and ZnO nanoparticles. *Advanced Powder Technology*, **2017**, 28, 2532-2541	4.6	7
314	High-Energy Ball Milling Parameters in Production of Nanocrystalline Al Alloys. *SpringerBriefs in Materials*, **2017**, 7-28	0.5	7
313	Mechanical Properties of High-Energy Ball Milled Nanocrystalline Al Alloys. *SpringerBriefs in Materials*, **2017**, 45-59	0.5	1
312	Thermal Stability of High-Energy Ball Milled Al Alloys. *SpringerBriefs in Materials*, **2017**, 61-69	0.5	1
311	Future Work and Possible Applications of Nanocrystalline Al Alloys as Produced by High-Energy Ball Milling. *SpringerBriefs in Materials*, **2017**, 95-99	0.5	2
310	Consolidation of High-Energy Ball Milled Nanocrystalline Al Powders. *SpringerBriefs in Materials*, **2017**, 29-43	0.5	
309	Structural, dielectric and ferroelectric properties of lead-free Na0.5Bi0.5TiO3 ceramics prepared by spark plasma sintering technique. *Indian Journal of Physics*, **2016**, 90, 131-138	1.4	5

308	Identifying non-equiatomic high entropy bulk metallic glass formers through thermodynamic approach: A theoretical perspective. *Journal of Non-Crystalline Solids*, **2016**, 450, 164-173	3.9	5
307	Structure□Property Correlation in Fe-Al2O3 In Situ Nanocomposite Synthesized by High-Energy Ball Milling and Spark Plasma Sintering. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 5223-5233	2.3	2
306	Ni tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. *Journal of Alloys and Compounds*, **2016**, 688, 994-1001	5.7	157
305	Interpreting room temperature deformation of Zr67Cu33 metallic glass through Voronoi cluster dynamics. *Journal of Non-Crystalline Solids*, **2016**, 454, 59-69	3.9	3
304	Conventional and Spark Plasma Sintered Ba0.8Pb0.2TiO3 Nano Ceramics: Structural, Dielectric, and Ferroelectric Properties. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2579-2586	2.3	3
303	Photo-induced monomer/dimer kinetics in methylene blue degradation over doped and phase controlled nano-TiO2 films. *RSC Advances*, **2016**, 6, 43563-43573	3.7	7
302	Preparation and characterisation of fine-grained barium lead titanate ceramics by spark plasma sintering technique. *Materials Research Innovations*, **2016**, 20, 81-85	1.9	3
301	Kinetic modification of the □onfusion principle□for metallic glass formation. *Scripta Materialia*, **2016**, 116, 7-10	5.6	20
300	Crystallographic-shear-phase-driven W18O49 nanowires growth on nanocrystalline W surfaces. *Scripta Materialia*, **2016**, 115, 28-32	5.6	16
299	On the Structural Stability of Melt Spun Ribbons of Fe95□ Zr x B4Cu1 (x = 7 and 9) Alloys and Correlation with Their Magnetic Properties. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 560-571	2.3	3
298	Low temperature synthesis of dense and ultrafine grained zirconium diboride compacts by reactive spark plasma sintering. *Scripta Materialia*, **2016**, 110, 78-81	5.6	21
297	Austenitic Oxide Dispersion Strengthened Steels : A Review. *Defence Science Journal*, **2016**, 66, 316	1.4	27
296	Processing and characterization of in-situ TiB2 stabilized closed cell aluminium alloy composite foams. *Materials and Design*, **2016**, 101, 245-253	8.1	15
295	Critical evaluation of glass forming ability criteria. *Materials Science and Technology*, **2016**, 32, 380-400	1.5	35
294	Effect of Sc addition and T6 aging treatment on the microstructure modification and mechanical properties of A356 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 674, 438-450	5.3	43
293	Plasma-Sprayed High Entropy Alloys: Microstructure and Properties of AlCoCrFeNi and MnCoCrFeNi. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 791-800	2.3	98
292	Aluminum-Based Cast In Situ Composites: A Review. *Journal of Materials Engineering and Performance*, **2015**, 24, 2185-2207	1.6	118
291	Effect of grain size on dielectric and ferroelectric properties of nanostructured Ba0.8Sr0.2TiO3 ceramics. *Journal of Advanced Ceramics*, **2015**, 4, 46-53	10.7	91

290	Thermodynamic modeling and composition design for the formation of ZrTiCuNiAl high entropy bulk metallic glasses. *Intermetallics*, **2015**, 65, 42-50	3.5	20
289	Effect of Sc addition on the microstructure and wear properties of A356 alloy and A356TiB2 in situ composite. *Materials & Design*, **2015**, 78, 85-94		49
288	Magnetoelectric properties of lead-free Ni0.93Co0.02Mn0.05Fe1.95O4Na0.5Bi0.5TiO3 multiferroic composites synthesized by spark plasma sintering. *Journal of Magnetism and Magnetic Materials*, **2015**, 386, 44-49	2.8	11
287	Glass Forming Ability, Structure and Soft Magnetic Properties of Rapidly Solidified Fe86Zr7NbxB6Cu1 Alloy Ribbons. *Transactions of the Indian Institute of Metals*, **2015**, 68, 1047-1051	1.2	
286	Icosahedral Cluster Energetics in Zr60Cu10Al15Ni15 Bulk Metallic Glass and Their Role on Solidification Behavior. *Transactions of the Indian Institute of Metals*, **2015**, 68, 1107-1112	1.2	1
285	Spark Plasma Sintering Temperature Effect on Structural, Dielectric and Ferroelectric Properties of Ba0.9Sr0.1TiO3 Nanocrystalline Ceramics. *Journal of Electronic Materials*, **2015**, 44, 4308-4315	1.9	5
284	Factors Influencing Oxidation Behavior of Metallic Glasses. *Transactions of the Indian Institute of Metals*, **2015**, 68, 1151-1154	1.2	
283	Grain-size-dependent non-monotonic lattice parameter variation in nanocrystalline W: The role of non-equilibrium grain boundary structure. *Scripta Materialia*, **2015**, 98, 20-23	5.6	32
282	Micro and nano indentation studies on Zr60Cu10Al15Ni15 bulk metallic glass. *Materials & Design*, **2015**, 65, 98-103		29
281	Low temperature synthesis of dense TiB2 compacts by reaction spark plasma sintering. *International Journal of Refractory Metals and Hard Materials*, **2015**, 48, 201-210	4.1	34
280	Origin of magnetocapacitance in chemically homogeneous and inhomogeneous ferrites. *Physical Chemistry Chemical Physics*, **2015**, 17, 2432-7	3.6	8
279	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, 2844-2849	2.3	3
278	Grain size dependent phase transition and superparaelectric behavior of ferroelectric BST. *Physica B: Condensed Matter*, **2015**, 461, 10-16	2.8	9
277	Dielectric, magnetic and enhanced magnetoelectric response in high energy ball milling assisted BST-NZF particulate composite. *Materials Chemistry and Physics*, **2015**, 167, 338-346	4.4	14
276	Multiferroic properties of lead-free Ni0.5Zn0.5Fe1.9O4Na0.5Bi0.5TiO3 composites synthesized by spark plasma sintering. *Ceramics International*, **2015**, 41, 6882-6888	5.1	13
275	Bio-corrosion and Cytotoxicity Studies on Novel Zr55Co30Ti15 and Cu60Zr20Ti20 Metallic Glasses. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 2422-2430	2.3	10
274	Amorphization in equiatomic high entropy alloys. *Journal of Non-Crystalline Solids*, **2015**, 413, 8-14	3.9	15
273	Phase Transitions Of The Ferroelectric Na0.5Bi0.5TiO3 By Dielectric And Internal Friction Measurements. *Advanced Materials Letters*, **2015**, 6, 27-32	2.4	5

272	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 Materials Science*, **2014**, 45, 1684-1688	2.3	1
271	Enhanced magnetoelectric properties in lead-free Ni0.83Co0.15Cu0.02Fe1.9O4-Na0.5Bi0.5TiO3 composites by spark plasma sintering. *Scripta Materialia*, **2014**, 82, 9-12	5.6	19
270	Effect of grain size on the electrical properties of high dense BPT nanocrystalline ferroelectric ceramics. *Ceramics International*, **2014**, 40, 1781-1788	5.1	22
269	Alloying, thermal stability and strengthening in spark plasma sintered AlxCoCrCuFeNi high entropy alloys. *Journal of Alloys and Compounds*, **2014**, 583, 419-426	5.7	146
268	On Joule heating during spark plasma sintering of metal powders. *Scripta Materialia*, **2014**, 93, 52-55	5.6	51
267	Maxwell-Wagner polarization in grain boundary segregated NiCuZn ferrite. *Current Applied Physics*, **2014**, 14, 1727-1733	2.6	24
266	High-Entropy Alloys **2014**, 13-35		168
265	Influence of welding process on Type IV cracking behavior of P91 steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 613, 148-158	5.3	35
264	Porous copper template from partially spark plasma-sintered Cu-Zn aggregate via dezincification. *Bulletin of Materials Science*, **2014**, 37, 743-752	1.7	9
263	Temperature and frequency dependent electrical properties of NiCuZn ferrite with CuO-rich grain boundary segregation. *Journal of Alloys and Compounds*, **2014**, 595, 206-212	5.7	10
262	Investigation on PZT-Based Nanostructured Functional Materials. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2014**, 44, 991-994		2
261	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	1.2	0
260	Investigation of microstructure and microhardness of pure W and W-2Y2O3 materials before and after ion-irradiation. *International Journal of Refractory Metals and Hard Materials*, **2014**, 46, 168-172	4.1	14
259	Influence of Coincidence Site Lattice Boundary on Creep Resistance of P91 Steel Weldments. *Procedia Engineering*, **2014**, 86, 80-87		7
258	Carbide-Free Bainitic Weld Metal: A New Concept in Welding of Armor Steels. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2014**, 45, 2327-2337	2.5	10
257	Generation of drugs coated iron nanoparticles through high energy ball milling. *Journal of Applied Physics*, **2014**, 115, 124906	2.5	2
256	Effect of molybdenum and niobium on the phase formation and hardness of nanocrystalline CoCrFeNi high entropy alloys. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 8106-9	1.3	24
255	Influence of Surfactant Variation on Effective Anisotropy and Magnetic Properties of Mechanically Milled Magnetite Nanoparticles and Their Biocompatibility. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	3

254	Thermodynamic Basis for Glass Formation in Cu-Zr Rich Ternary Systems and Their Synthesis by Mechanical Alloying. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 2363-2370	2.3	8
253	Effect of DC bias on dielectric properties of nanocrystalline CuAlO2. *Electronic Materials Letters*, **2013**, 9, 207-211	2.9	10
252	Synthesis, characterization and demonstration of self-cleaning TiO2 coatings on glass and glazed ceramic tiles. *Progress in Organic Coatings*, **2013**, 76, 1756-1760	4.8	27
251	Characterization of Oxide Dispersed AlCoCrFe High Entropy Alloy Synthesized by Mechanical Alloying and Spark Plasma Sintering. *Transactions of the Indian Institute of Metals*, **2013**, 66, 369-373	1.2	47
250	Synthesis and Characterization of Spark Plasma Sintered FeAl and In situ FeAl–Al2O3 Composite. *Transactions of the Indian Institute of Metals*, **2013**, 66, 419-424	1.2	2
249	Ultrafine-grained, high-strength NiAl with Al2O3 and Al4C3 nanosized particles dispersed via mechanical alloying in toluene with spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 585, 379-386	5.3	11
248	Effect of Y2O3 on Spark Plasma Sintering Kinetics of Nanocrystalline 9Cr-1Mo Ferritic Oxide Dispersion-Strengthened Steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 4037-4041	2.3	4
247	Design of an Ideal Grain-Refiner Alloy for Al-7Si Alloy Using Artificial Neural Networks. *Journal of Materials Engineering and Performance*, **2013**, 22, 696-699	1.6	7
246	Investigation of Structural and Diffuse Phase Transition of New Nano Lead-Free System xBAO – yBZT – (1 – x – y) BCT. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 5241-5250	2.3	8
245	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
244	A comparative study of structural and electrical properties of Ba0.8Pb0.2TiO3 nanocrystalline ceramics prepared by microwave and spark plasma sintering. *Materials Chemistry and Physics*, **2013**, 142, 686-691	4.4	16
243	Phase Evolution and Densification Behavior of Nanocrystalline Multicomponent High Entropy Alloys During Spark Plasma Sintering. *Jom*, **2013**, 65, 1797-1804	2.1	77
242	Microwave sintering effect on structural and dielectrical properties of Ba1–x(Sr/Pb)xTiO3 (x = 0.2 for Sr and Pb) ceramics. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 2141-2150	2.1	10
241	Crystallite size effect on voltage tunable giant dielectric permittivity of nanocrystalline CuO. *Electronic Materials Letters*, **2013**, 9, 59-62	2.9	8
240	Phase formation in mechanically alloyed AlxCoCrCuFeNi (x = 0.45, 1, 2.5, 5 mol) high entropy alloys. *Intermetallics*, **2013**, 32, 119-126	3.5	109
239	Miedema model based methodology to predict amorphous-forming-composition range in binary and ternary systems. *Journal of Alloys and Compounds*, **2013**, 550, 483-495	5.7	31
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