Rajiv S. Mishra

List of Publications by Citations

579 papers	22,720 citations	63 h-index	134 g-index
603 ext. papers	26,000 ext. citations	4.4 avg, IF	7.56 L-index

#	Paper	IF	Citations
579	Friction stir welding and processing. *Materials Science and Engineering Reports*, **2005**, 50, 1-78	30.9	4398
578	Microstructural investigation of friction stir welded 7050-T651 aluminium. *Acta Materialia*, **2003**, 51, 713-729	8.4	766
577	Friction stir processing: a novel technique for fabrication of surface composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 341, 307-310	5.3	756
576	High strain rate superplasticity in a friction stir processed 7075 Al alloy. *Scripta Materialia*, **1999**, 42, 163-168	3.68	624
575	Low-temperature superplasticity in nanostructured nickel and metal alloys. *Nature*, **1999**, 398, 684-686	50.4	526
574	Additive manufacturing of metals: a brief review of the characteristic microstructures and properties of steels, Ti-6Al-4V and high-entropy alloys. *Science and Technology of Advanced Materials*, **2017**, 18, 584-610	7.1	434
573	Superplastic deformation behaviour of friction stir processed 7075Al alloy. *Acta Materialia*, **2002**, 50, 4419-4430	8.4	343
572	Effects of grain size on the corrosion resistance of wrought magnesium alloys containing neodymium. *Corrosion Science*, **2012**, 58, 145-151	6.8	280
571	Influence of grain size and texture on Hall□Petch relationship for a magnesium alloy. *Scripta Materialia*, **2011**, 65, 994-997	5.6	252
570	Structure□property correlations in Al 7050 and Al 7055 high-strength aluminum alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 478, 163-172	5.3	246
569	Superplasticity in powder metallurgy aluminum alloys and composites. *Acta Metallurgica Et Materialia*, **1995**, 43, 877-891		233
568	Steady state creep behaviour of silicon carbide particulate reinforced aluminium composites. *Acta Metallurgica Et Materialia*, **1992**, 40, 2045-2052		217
567	Friction stir processing: a tool to homogenize nanocomposite aluminum alloys. *Scripta Materialia*, **2001**, 44, 61-66	5.6	206
566	Friction Stir Processing: A New Grain Refinement Technique to Achieve High Strain Rate Superplasticity in Commercial Alloys. *Materials Science Forum*, **2001**, 357-359, 507-514	0.4	199
565	High strain rate superplasticity in a commercial 2024 Al alloy via friction stir processing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 359, 290-296	5.3	196
564	Effect of friction stir processing on the microstructure of cast A356 aluminum. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 433, 269-278	5.3	167
563	Effect of friction stir processing on fatigue behavior of A356 alloy. *Scripta Materialia*, **2004**, 51, 237-241	5.6	166

562	Strengthening mechanisms in Ti-Nb-Zr-Ta and Ti-Mo-Zr-Fe orthopaedic alloys. *Biomaterials*, **2004**, 25, 3413-9	15.6	162
561	Microstructural modification of as-cast Al-Si-Mg alloy by friction stir processing. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2006**, 37, 3323-3336	2.3	156
560	Low temperature superplasticity in a friction-stir-processed ultrafine grained Al□nMgSc alloy. *Acta Materialia*, **2005**, 53, 4211-4223	8.4	154
559	Extreme creep resistance in a microstructurally stable nanocrystalline alloy. *Nature*, **2016**, 537, 378-81	50.4	147
558	Effect of multiple-pass friction stir processing on microstructure and tensile properties of a cast aluminumSilicon alloy. *Scripta Materialia*, **2006**, 54, 1623-1626	5.6	143
557	High strain-rate compressive deformation behavior of the Al0.1CrFeCoNi high entropy alloy. *Materials and Design*, **2015**, 86, 598-602	8.1	136
556	Mechanical behavior and superplasticity of a severe plastic deformation processed nanocrystalline TiBAl□V alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 298, 44-50	5.3	128
555	Abnormal grain growth in friction stir processed alloys. *Scripta Materialia*, **2008**, 58, 367-371	5.6	123
554	Friction stir additive manufacturing for high structural performance through microstructural control in an Mg based WE43 alloy. *Materials & Design*, **2015**, 65, 934-952		122
553	Superplasticity in cast A356 induced via friction stir processing. *Scripta Materialia*, **2004**, 50, 931-935	5.6	118
552	Multiple passes of friction stir processing for the creation of superplastic 7075 aluminum. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 464, 255-260	5.3	117
551	Corrosion behavior of a friction stir processed rare-earth added magnesium alloy. *Corrosion Science*, **2012**, 58, 321-326	6.8	113
550	Effect of tool design and process parameters on properties of Al alloy 6016 friction stir spot welds. *Journal of Materials Processing Technology*, **2011**, 211, 972-977	5.3	110
549	High strain rate superplasticity in friction stir processed Al□Mg□r alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 351, 148-153	5.3	109
548	Modifying transformation pathways in high entropy alloys or complex concentrated alloys via thermo-mechanical processing. *Acta Materialia*, **2018**, 153, 169-185	8.4	108
547	Superplastic deformation mechanism of an ultrafine-grained aluminum alloy produced by friction stir processing. *Acta Materialia*, **2010**, 58, 4693-4704	8.4	106
546	Influence of fraction of high angle boundaries on the mechanical behavior of an ultrafine grained Al□Mg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 5246-5254	5.3	105
545	High-Pressure Sintering of Nanocrystalline □l2O3. *Journal of the American Ceramic Society*, **1996**, 79, 2989-2992	3.8	103

544	Development of ultrafine-grained microstructure and low temperature (0.48 Tm) superplasticity in friction stir processed Al–Mg–Zr. *Scripta Materialia*, **2005**, 53, 75-80	5.6	101
543	Grain size and texture effects on deformation behavior of AZ31 magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 558, 716-724	5.3	97
542	Properties of friction stir-processed Al 1100–NiTi composite. *Scripta Materialia*, **2007**, 56, 541-544	5.6	94
541	Effect of texture on the mechanical behavior of ultrafine grained magnesium alloy. *Scripta Materialia*, **2011**, 64, 580-583	5.6	93
540	Multi-sheet structures in 7475 aluminum by friction stir welding in concert with post-weld superplastic forming. *Scripta Materialia*, **2002**, 47, 631-636	5.6	92
539	Some observations on the high-temperature creep behavior of 6061 Al-SiC composites. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1990**, 21, 2089-2090		92
538	Enhanced strength and ductility in a friction stir processing engineered dual phase high entropy alloy. *Scientific Reports*, **2017**, 7, 16167	4.9	91
537	High strain rate superplasticity in continuous cast Al–Mg alloys prepared via friction stir processing. *Scripta Materialia*, **2009**, 60, 850-853	5.6	89
536	High-strain-rate superplasticity from nanocrystalline Al alloy 1420 at low temperatures. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2001**, 81, 37-48		89
535	Mechanism of high strain rate superplasticity in aluminium alloy composites. *Acta Materialia*, **1997**, 45, 561-568	8.4	88
534	Tensile superplasticity in a nanocrystalline nickel aluminide. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1998**, 252, 174-178	5.3	88
533	Analysis of microstructural evolution during friction stir welding of ultrahigh-strength steel. *Scripta Materialia*, **2010**, 63, 851-854	5.6	85
532	Enhancing strength and strain hardenability via deformation twinning in fcc-based high entropy alloys reinforced with intermetallic compounds. *Acta Materialia*, **2019**, 165, 420-430	8.4	84
531	Tensile yield strength of a single bulk Al0.3CoCrFeNi high entropy alloy can be tuned from 160 MPa to 1800 MPa. *Scripta Materialia*, **2019**, 162, 18-23	5.6	82
530	Effect of Microstructure on the Deformation Mechanism of Friction Stir-Processed Al0.1CoCrFeNi High Entropy Alloy. *Materials Research Letters*, **2015**, 3, 30-34	7.4	79
529	High-temperature creep behavior of TiC particulate reinforced Ti–6Al–4V alloy composite. *Acta Materialia*, **2002**, 50, 4293-4302	8.4	79
528	Effect of friction stir processing on fatigue behavior of an investment cast Al–7Si–0.6 Mg alloy. *Acta Materialia*, **2010**, 58, 989-1003	8.4	77
527	Corrosion-resistant high entropy alloy with high strength and ductility. *Scripta Materialia*, **2019**, 166, 168-172	5.6	75

526	Tool wear mechanisms in friction stir welding of Ti6Al4V alloy. *Wear*, **2014**, 321, 25-32	3.5	70
525	Steady state creep behaviour of particulate-reinforced titanium matrix composites. *Acta Materialia*, **1996**, 44, 927-935	8.4	70
524	Microstructure and mechanical behavior of friction stir processed ultrafine grained Al5Mg3Sc alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 5883-5887	5.3	69
523	A conceptual model for the process variables related to heat generation in friction stir welding of aluminum. *Scripta Materialia*, **2008**, 58, 327-331	5.6	69
522	Dimensionally induced structural transformations in titanium-aluminum multilayers. *Physical Review Letters*, **1996**, 76, 3778-3781	7.4	68
521	Friction Stir Processing of a High Entropy Alloy Al0.1CoCrFeNi. *Jom*, **2015**, 67, 1007-1013	2.1	67
520	Evaluation of microstructure and superplasticity in friction stir processed 5083 Al alloy. *Journal of Materials Research*, **2004**, 19, 3329-3342	2.5	67
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518	Effect of microstructure on fatigue life and fracture morphology in an aluminum alloy. *Scripta Materialia*, **2009**, 60, 500-503	5.6	66
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516	Anomalies in the deformation mechanism and kinetics of coarse-grained high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 654, 256-263	5.3	63
515	Material flow and microstructural evolution during friction stir spot welding of AZ31 magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 543, 200-209	5.3	63
514	High strain rate superplasticity in friction stir processed ultrafine grained Mg2Al2Zn alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 562, 69-76	5.3	62
513	Extremely high strength and work hardening ability in a metastable high entropy alloy. *Scientific Reports*, **2018**, 8, 9920	4.9	61
512	Additivity of strengthening mechanisms in ultrafine grained Al5Mg3Sc alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 580, 175-183	5.3	61
511	Microstructure and mechanical properties of a friction stir processed Ti6Al4V alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 573, 67-74	5.3	61
510	Ultrathin alumina-coated carbon nanotubes as an anode for high capacity Li-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 13621		61
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508	Plasma activated sintering of nanocrystalline Al2O3. *Scripta Materialia*, **1995**, 5, 525-544		61
507	A Combinatorial Approach for Assessing the Magnetic Properties of High Entropy Alloys: Role of Cr in AlCoxCr1FeNi . *Advanced Engineering Materials*, **2017**, 19, 1700048	3.5	60
506	Fatigue behavior of ultrafine grained triplex Al0.3CoCrFeNi high entropy alloy. *Scripta Materialia*, **2019**, 158, 116-120	5.6	60
505	Reciprocating sliding wear behavior of high entropy alloys in dry and marine environments. *Materials Chemistry and Physics*, **2018**, 210, 162-169	4.4	59
504	Hierarchical microstructure for improved fatigue properties in a eutectic high entropy alloy. *Scripta Materialia*, **2018**, 156, 105-109	5.6	59
503	A State-of-the-Art Review on Solid-State Metal Joining. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2019**, 141,	3.3	59
502	A study on the combined effect of forging and aging in MgRE alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 530, 28-35	5.3	59
501	Study of friction stir joining of thin aluminium sheets in lap joint configuration. *Science and Technology of Welding and Joining*, **2010**, 15, 70-75	3.7	59
500	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of a Cast-MagnesiumRare Earth Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 73-84	2.3	59
499	Survivability of single-walled carbon nanotubes during friction stir processing. *Nanotechnology*, **2006**, 17, 3081-3084	3.4	59
498	Cavitation in superplastic 7075Al alloys prepared via friction stir processing. *Acta Materialia*, **2003**, 51, 3551-3569	8.4	59
497	Friction Stir Additive Manufacturing: Route to High Structural Performance. *Jom*, **2015**, 67, 616-621	2.1	58
496	Spatially dependent properties in a laser additive manufactured TiAl4V component. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 654, 39-52	5.3	58
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494	Friction stir welding of AlMgi 1424 alloy. *Materials and Design*, **2016**, 106, 146-152	8.1	57
493	Upper critical field in nanostructured Nb: Competing effects of the reduction in density of states and the mean free path. *Physical Review B*, **2006**, 74,	3.3	57
492	Creep behaviour of an aluminium-silicon carbide particulate composite. *Scripta Metallurgica Et Materialia*, **1990**, 24, 1565-1570		57
491	Development of a highly regenerable elite Acala cotton (Gossypium hirsutum cv. Maxxa) a step towards genotype-independent regeneration. *Plant Cell, Tissue and Organ Culture*, **2003**, 73, 21-35	2.7	56

490	Aging kinetics of friction stir welded Al-Cu-Li-Mg-Ag and Al-Cu-Li-Mg alloys. *Materials and Design*, **2016**, 110, 60-71	8.1	56
489	Friction stir lap welded advanced high strength steels: Microstructure and mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 8111-8119	5.3	55
488	Microstructural Modification of Cast Aluminum Alloys via Friction Stir Processing. *Materials Science Forum*, **2003**, 426-432, 2891-2896	0.4	55
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486	Electric pulse assisted rapid consolidation of ultrafine grained alumina matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 287, 178-182	5.3	53
485	Contrasting mechanical behavior in precipitation hardenable AlXCoCrFeNi high entropy alloy microstructures: Single phase FCC vs. dual phase FCC-BCC. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 739, 158-166	5.3	53
484	Hierarchical features infused heterogeneous grain structure for extraordinary strength-ductility synergy. *Materials Research Letters*, **2018**, 6, 676-682	7.4	52
483	Lattice strain framework for plastic deformation in complex concentrated alloys including high entropy alloys. *Materials Science and Technology*, **2015**, 31, 1259-1263	1.5	50
482	Synthesis and characterization of self-organized multilayered graphene–carbon nanotube hybrid films. *Journal of Materials Chemistry*, **2011**, 21, 7289		49
481	Critical grain size for change in deformation behavior in ultrafine grained Al–Mg–Sc alloy. *Scripta Materialia*, **2011**, 64, 576-579	5.6	49
480	Enhanced superplasticity through friction stir processing in continuous cast AA5083 aluminum. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2007**, 464, 351-357	5.3	49
479	Observations of low-temperature superplasticity in electrodeposited ultrafine grained nickel. *Materials Letters*, **2000**, 45, 345-349	3.3	49
478	Influence of initial crystal structure and electrical pulsing on densification of nanocrystalline alumina powder. *Journal of Materials Research*, **1998**, 13, 86-89	2.5	49
477	Characterization of high cycle fatigue behavior of a new generation aluminum lithium alloy. *Acta Materialia*, **2011**, 59, 5946-5960	8.4	48
476	Oxide dispersion strengthened nickel based alloys via spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 630, 155-169	5.3	47
475	Effect of process parameters on abnormal grain growth during friction stir processing of a cast Al alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 528, 189-199	5.3	47
474	TEM/HREM observations of nanostructured superplastic Ni3AI. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2001**, 81, 25-36		46
473	Process forces during friction stir channeling in an aluminum alloy. *Journal of Materials Processing Technology*, **2011**, 211, 305-311	5.3	45

472	Creep behaviour of an orthorhombic phase in a Ti?Al?Nb alloy. *Scripta Metallurgica Et Materialia*, **1993**, 28, 569-574		45
471	Microstructure and steady state creep in Ti-24Al-11Nb. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1990**, 130, 151-164	5.3	45
470	Strength and ductility optimization of Mg□□Nd□Zr alloy by microstructural design. *International Journal of Plasticity*, **2015**, 68, 77-97	7.6	44
469	Effect of microstructure on the uniaxial tensile deformation behavior of Mg□Y□RE alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 590, 116-131	5.3	44
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465	On superplasticity in silicon carbide reinforced aluminum composites. *Scripta Metallurgica Et Materialia*, **1991**, 25, 271-275		43
464	Hall-Petch and inverse Hall-Petch relations in high-entropy CoNiFeAlxCu1-x alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 773, 138873	5.3	43
463	Evaluation of intermetallic compound layer at aluminum/steel interface joined by friction stir scribe technology. *Materials and Design*, **2019**, 174, 107795	8.1	42
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459	Enhanced superplastic properties in bulk metastable nanostructured alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 304-306, 206-210	5.3	42
458	Influence of friction stir processing on the room temperature fatigue cracking mechanisms of A356 aluminum alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 716, 165-178	5.3	39
457	Deformation mechanisms and tensile superplasticity in nanocrystalline materials. *Jom*, **1999**, 51, 37-40	2.1	39
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455	Extremely high fatigue resistance in an ultrafine grained high entropy alloy. *Applied Materials Today*, **2019**, 15, 525-530	6.6	38

454	The observation of tensile superplasticity in nanocrystalline materials. *Scripta Materialia*, **1997**, 9, 473-476		38
453	Microstructural Modification and Resultant Properties of Friction Stir Processed Cast NiAl Bronze. *Materials Science Forum*, **2003**, 426-432, 2843-2848	0.4	38
452	Microstructure and mechanical behavior of an additive manufactured (AM) WE43-Mg alloy. *Additive Manufacturing*, **2019**, 26, 53-64	6.1	38
451	Unexpected strength□ductility response in an annealed, metastable, high-entropy alloy. *Applied Materials Today*, **2018**, 13, 198-206	6.6	38
450	Influence of friction stir processing tool design on microstructure and superplastic behavior of Al-Mg alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 670, 9-16	5.3	37
449	Study of □precipitates and their effect on the directional yield asymmetry of friction stir processed and aged AZ91C alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 560, 500-509	5.3	37
448	Effect of stress ratio on the fatigue behavior of a friction stir processed cast Al□Si□Mg alloy. *Scripta Materialia*, **2009**, 61, 992-995	5.6	37
447	Steady state creep behaviour of a rapidly solidified and further processed Al-5 wt% Ti alloy. *Acta Metallurgica Et Materialia*, **1993**, 41, 2243-2251		37
446	High-entropy alloy strengthened by in situ formation of entropy-stabilized nano-dispersoids. *Scientific Reports*, **2018**, 8, 14085	4.9	37
445	Serration behavior and negative strain rate sensitivity of Al0.1CoCrFeNi high entropy alloy. *Intermetallics*, **2017**, 84, 20-24	3.5	36
444	Influence of process parameters on microstructural evolution and mechanical properties in friction stirred Al-2024 (T3) alloy. *Science and Technology of Welding and Joining*, **2009**, 14, 346-355	3.7	36
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440	Microstructure and wear resistance of an intermetallic-based Al0.25Ti0.75CoCrFeNi high entropy alloy. *Materials Chemistry and Physics*, **2018**, 210, 197-206	4.4	34
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431	Saturation magnetization and Curie temperature of nanocrystalline nickel. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 75, 803-811		32
430	Impact of thermal management on post weld heat treatment efficacy in friction stir welded 2050-T3 alloy. *Journal of Alloys and Compounds*, **2017**, 722, 330-338	5.7	31
429	Crystallographically degenerate B2 precipitation in a plastically deformed fcc-based complex concentrated alloy. *Materials Research Letters*, **2018**, 6, 171-177	7.4	31
428	Achieving High Strength and High Ductility in Friction Stir-Processed Cast Magnesium Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 3675-3684	2.3	31
427	Microstructural optimization of alloys using a genetic algorithm. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 372, 213-220	5.3	31
426	Thermal stability of friction stir processed ultrafine grained AlMgSc alloy. *Materials Characterization* , **2012**, 74, 1-10	3.9	30
425	Friction stir welding of precipitation strengthened aluminium alloys: scope and challenges. *Science and Technology of Welding and Joining*, **2011**, 16, 343-347	3.7	30
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423	Processing of high hardness-high toughness alumina matrix nanocomposites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 301, 97-101	5.3	30
422	Strengthening of Al0.3CoCrFeMnNi-based ODS high entropy alloys with incremental changes in the concentration of Y2O3. *Scripta Materialia*, **2019**, 162, 477-481	5.6	30
421	Enhanced tensile yield strength in laser additively manufactured Al0.3CoCrFeNi high entropy alloy. *Materialia*, **2020**, 9, 100522	3.2	29
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419	Grain size dependence of strain rate sensitivity in a single phase FCC high entropy alloy Al0.3CoCrFeNi. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 736, 344-348	5.3	29

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416	Superplasticity and microstructural stability in a Mg alloy processed by hot rolling and friction stir processing. *Scripta Materialia*, **2013**, 68, 447-450	5.6	28
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