Rajiv S. Mishra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

579	22,720 citations	63	134
papers		h-index	g-index
603	26,000 ext. citations	4·4	7.56
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
579	Unveiling the interplay of deformation mechanisms in a metastable high entropy alloy with tuned composition using synchrotron X-ray diffraction. <i>Materials Today Communications</i> , 2022 , 30, 103155	2.5	
578	Understanding the nature of passivation film formed during corrosion of Fe39Mn20Co20Cr15Si5Al1 high entropy alloy in 3.5 wt% NaCl solution. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164100	5.7	1
577	Mechanical properties and microstructural characteristics of additively manufactured C103 niobium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142183	5.3	1
576	Elimination of extraordinarily high cracking susceptibility of aluminum alloy fabricated by laser powder bed fusion. <i>Journal of Materials Science and Technology</i> , 2022 , 103, 50-58	9.1	6
575	Effects of plasticity-induced martensitic transformation and grain refinement on the evolution of microstructure and mechanical properties of a metastable high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161871	5.7	1
574	Ultrasonic elastography for nondestructive evaluation of dissimilar material joints. <i>Journal of Materials Processing Technology</i> , 2022 , 299, 117301	5.3	2
573	Alloy design and adaptation for additive manufacture. <i>Journal of Materials Processing Technology</i> , 2022 , 299, 117358	5.3	10
572	Cyclic Thermal Dependent Microstructure Evolution During Laser Directed Energy Deposition of H13 Steel. <i>Transactions of the Indian Institute of Metals</i> , 2022 , 75, 1007-1014	1.2	O
571	Role of Cu addition in enhancing strength-ductility synergy in transforming high entropy alloy. <i>Materials and Design</i> , 2022 , 215, 110487	8.1	1
57°	Pathways to Titanium Martensite. <i>Transactions of the Indian Institute of Metals</i> , 2022 , 75, 1051-1068	1.2	O
569	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys <i>IScience</i> , 2022 , 25, 104047	6.1	O
568	Influence of welding parameters on mechanical, microstructure, and corrosion behavior of friction stir welded Al 7017 alloy. <i>Materials Science & Discourse ing A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143303	5.3	0
567	Stress contribution of B2 phase in Al0.7CoCrFeNi eutectic high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 165673	5.7	
566	Excellent ballistic impact resistance of AlCoCrFeNi multi-principal element alloy with unique bimodal microstructure. <i>Scientific Reports</i> , 2021 , 11, 22715	4.9	3
565	Proton irradiation induced chemical ordering in an Al0.3CoFeNi high entropy alloy. <i>Applied Physics Letters</i> , 2021 , 119, 161907	3.4	O
564	Effect of multi-pass friction stir processing and SiC nanoparticles on microstructure and mechanical properties of AA6082-T6. <i>Advances in Industrial and Manufacturing Engineering</i> , 2021 , 3, 100062	1.8	11
563	Development of Al2O3-SiO2 based magnetic abrasive by sintering method and its performance on Ti-6Al-4V during magnetic abrasive finishing. <i>Transactions of the Institute of Metal Finishing</i> , 2021 , 99, 94-101	1.3	6

(2021-2021)

562	Spatial Variation of Thermokinetics and Associated Microstructural Evolution in Laser Surface Engineered IN718: Precursor to Additive Manufacturing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2344-2360	2.3	3	
561	Precipitation in nanostructured alloys: A brief review. MRS Bulletin, 2021, 46, 250-257	3.2	2	
560	Chemical-Affinity Disparity and Exclusivity Drive Atomic Segregation, Short-Range Ordering, and Cluster Formation in High-Entropy Alloys. <i>Acta Materialia</i> , 2021 , 206, 116638	8.4	12	
559	High entropy alloys I unability of deformation mechanisms through integration of compositional and microstructural domains. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 812, 141085	5.3	25	
558	Strain rate sensitive microstructural evolution in a TRIP assisted high entropy alloy: Experiments, microstructure and modeling. <i>Mechanics of Materials</i> , 2021 , 156, 103798	3.3	6	
557	Microstructure and mechanical characterization of tungsten inert gas-welded joint of AA6061 and AA7075 by friction stir processing. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications,</i> 2021 , 235, 2531-2546	1.3	8	
556	Insights into Defect-Mediated Nucleation of Equilibrium B2 Phase in Face-Centered Cubic High-Entropy Alloys. <i>Jom</i> , 2021 , 73, 2320-2331	2.1	2	
555	Design of heterogeneous structured Al alloys with wide processing window for laser-powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2021 , 42, 102002	6.1	6	
554	Design approaches for printability-performance synergy in Al alloys for laser-powder bed additive manufacturing. <i>Materials and Design</i> , 2021 , 204, 109640	8.1	26	
553	Effect of friction stir processing on mechanical properties and heat transfer of TIG welded joint of AA6061 and AA7075. <i>Defence Technology</i> , 2021 , 17, 715-727	3	19	
552	Additively manufactured novel Al-Cu-Sc-Zr alloy: Microstructure and mechanical properties. <i>Additive Manufacturing</i> , 2021 , 37, 101623	6.1	4	
551	Additive friction stir deposition: a deformation processing route to metal additive manufacturing. <i>Materials Research Letters</i> , 2021 , 9, 71-83	7.4	21	
550	Microstructure P roperty Correlation in a Laser Powder Bed Fusion Processed High-Strength AF-9628 Steel. <i>Advanced Engineering Materials</i> , 2021 , 23, 2000845	3.5	6	
549	Stress Corrosion Cracking of TRIP Fe39Mn20Co20Cr15Si5Al1 (at.%) High Entropy Alloy. <i>Minerals, Metals and Materials Series</i> , 2021 , 742-750	0.3		
548	Crystallographic texture dependent bulk anisotropic elastic response of additively manufactured Ti6Al4V. <i>Scientific Reports</i> , 2021 , 11, 633	4.9	7	
547	Co-introduction of precipitate hardening and TRIP in a TWIP high-entropy alloy using friction stir alloying. <i>Scientific Reports</i> , 2021 , 11, 1579	4.9	4	
546	Optimization of friction stir welding process parameters during joining of aluminum alloys of AA6061 and AA6082. <i>Materials Today: Proceedings</i> , 2021 , 45, 5368-5376	1.4	1	
545	Effect of Friction Stir Processing on Mechanical Properties and Wear Resistance of Tungsten Inert Gas Welded Joint of Dissimilar Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 1926-1937	1.6	17	

544	Some Unique Aspects of Mechanical Behavior of Metastable Transformative High Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 889-896	2.3	6
543	Tri-objective constrained optimization of pulsating DC sourced magnetic abrasive finishing process parameters using artificial neural network and genetic algorithm. <i>Materials and Manufacturing Processes</i> , 2021 , 36, 843-857	4.1	6
542	Direct evidence of the stacking fault-mediated strain hardening phenomenon. <i>Applied Physics Letters</i> , 2021 , 119, 081906	3.4	2
541	Modeling the work hardening behavior in metastable high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141778	5.3	2
540	Friction stir processing of a high entropy alloy Fe42Co10Cr15Mn28Si5 with transformative characteristics: Microstructure and mechanical properties. <i>Materials Today Communications</i> , 2021 , 28, 102635	2.5	О
539	Transformative high entropy alloy conquers the strength-ductility paradigm by massive interface strengthening. <i>Scripta Materialia</i> , 2021 , 203, 114070	5.6	5
538	Metastable high entropy alloys: An excellent defect tolerant material for additive manufacturing. <i>Materials Science & Microstructure and Processing</i> , 2021 , 826, 142005	5.3	5
537	Segregation engineering of grain boundaries of a metastable Fe-Mn-Co-Cr-Si high entropy alloy with laser-powder bed fusion additive manufacturing. <i>Acta Materialia</i> , 2021 , 219, 117271	8.4	16
536	Role of binder phase on the microstructure and mechanical properties of a mechanically alloyed and spark plasma sintered WC-FCC HEA composites. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 16026	;5 ^{5.7}	8
535	High density of strong yet deformable intermetallic nanorods leads to an excellent room temperature strength-ductility combination in a high entropy alloy. <i>Acta Materialia</i> , 2021 , 219, 117234	8.4	10
534	Friction stir welding of Efcc dominated metastable high entropy alloy: Microstructural evolution and strength. <i>Scripta Materialia</i> , 2021 , 204, 114161	5.6	4
533	Processing-structure-property correlation in additive friction stir deposited Ti-6Al-4V alloy from recycled metal chips. <i>Additive Manufacturing</i> , 2021 , 47, 102259	6.1	7
532	Dynamic Shear Deformation of a Precipitation Hardened AlCoCrFeNi Eutectic High-Entropy Alloy Using Hat-Shaped Specimen Geometry. <i>Entropy</i> , 2020 , 22,	2.8	9
531	Metastability driven hierarchical microstructural engineering: Overview of mechanical properties of metastable complex concentrated alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155625	5.7	13
530	Ballistic Impact Response of Al0.1CoCrFeNi High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2020 , 22, 2070025	3.5	
529	Highly tunable magnetic and mechanical properties in an Al0.3CoFeNi complex concentrated alloy. <i>Materialia</i> , 2020 , 12, 100755	3.2	6
528	Hierarchical Eutectoid Nano-lamellar Decomposition in an AlCoFeNi Complex Concentrated Alloy. <i>Scientific Reports</i> , 2020 , 10, 4836	4.9	11
527	Rapid thermokinetics driven nanoscale vanadium clustering within martensite laths in laser powder bed fused additively manufactured Ti6Al4V. <i>Materials Research Letters</i> , 2020 , 8, 383-389	7.4	18

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526	Investigation of mechanical properties and heat transfer of welded joint of AA6061 and AA7075 using TIG+FSP welding approach. <i>Journal of Advanced Joining Processes</i> , 2020 , 1, 100003	2.1	20
525	Excellent high cyclic fatigue properties of a novel ultrafine-grained medium entropy alloy. <i>Materials Science & Microstructure and Processing</i> , 2020 , 779, 139122	5-3	10
524	Effect of temperature on the fatigue cracking mechanisms in A356 Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 780, 139175	5.3	6
523	Excellent strength-ductility synergy in metastable high entropy alloy by laser powder bed additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 32, 101098	6.1	16
522	Notch-tensile behavior of Al0.1CrFeCoNi high entropy alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2020, 774, 138918	5.3	6
521	Process-Dependent Composition, Microstructure, and Printability of Al-Zn-Mg and Al-Zn-Mg-Sc-Zr Alloys Manufactured by Laser Powder Bed Fusion. <i>Metallurgical and Materials Transactions A:</i> Physical Metallurgy and Materials Science, 2020 , 51, 3215-3227	2.3	23
520	Ballistic Impact Response of Al0.1CoCrFeNi High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000124	3.5	9
519	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of TIG Welded Joint of AA6061 and AA7075. <i>Metallography, Microstructure, and Analysis</i> , 2020 , 9, 403-418	1.1	25
518	Fatigue Behavior of High Entropy Alloys 2020 , 411-428		
517	Hierarchically Structured Ultrafine Grained Magnesium Alloys. <i>Minerals, Metals and Materials Series</i> , 2020 , 7-11	0.3	
517 516			8 ²⁴
	2020, 7-11 Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties		8 ²⁴
516	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TIG-Welded Joint of AA6061 and AA7075. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 17 Friction stir butt welding of a high strength Al-7050 alloy with a metastable transformative high	773 ⁻¹ 78	
516 515	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TIG-Welded Joint of AA6061 and AA7075. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 17 Friction stir butt welding of a high strength Al-7050 alloy with a metastable transformative high entropy alloy. <i>Materialia</i> , 2020 , 11, 100740 Achieving extraordinary structural efficiency in a wrought magnesium rare earth alloy. <i>Materials</i>	773 ¹ -1 ² 78	5
516 515 514	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TIG-Welded Joint of AA6061 and AA7075. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 17 Friction stir butt welding of a high strength Al-7050 alloy with a metastable transformative high entropy alloy. <i>Materialia</i> , 2020 , 11, 100740 Achieving extraordinary structural efficiency in a wrought magnesium rare earth alloy. <i>Materials Research Letters</i> , 2020 , 8, 151-157 Aging response on the stress corrosion cracking behavior of wrought precipitation-hardened	773 ¹ -178 3.2 7·4	9
516 515 514 513	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TIG-Welded Joint of AA6061 and AA7075. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 17 Friction stir butt welding of a high strength Al-7050 alloy with a metastable transformative high entropy alloy. <i>Materialia</i> , 2020 , 11, 100740 Achieving extraordinary structural efficiency in a wrought magnesium rare earth alloy. <i>Materials Research Letters</i> , 2020 , 8, 151-157 Aging response on the stress corrosion cracking behavior of wrought precipitation-hardened magnesium alloy. <i>Journal of Materials Science</i> , 2020 , 55, 1216-1230 Enhanced tensile yield strength in laser additively manufactured Al0.3CoCrFeNi high entropy alloy.	773 ¹ -178 3.2 7.4 4.3	596
516 515 514 513 512	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TIG-Welded Joint of AA6061 and AA7075. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 17 Friction stir butt welding of a high strength Al-7050 alloy with a metastable transformative high entropy alloy. <i>Materialia</i> , 2020, 11, 100740 Achieving extraordinary structural efficiency in a wrought magnesium rare earth alloy. <i>Materials Research Letters</i> , 2020, 8, 151-157 Aging response on the stress corrosion cracking behavior of wrought precipitation-hardened magnesium alloy. <i>Journal of Materials Science</i> , 2020, 55, 1216-1230 Enhanced tensile yield strength in laser additively manufactured Al0.3CoCrFeNi high entropy alloy. <i>Materialia</i> , 2020, 9, 100522 Deformation of lamellar FCC-B2 nanostructures containing Kurdjumov-Sachs interfaces: Relation	773 ¹ -178 3.2 7.4 4.3	59629

508	Hall-Petch and inverse Hall-Petch relations in high-entropy CoNiFeAlxCu1-x alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138873	5.3	43
507	Investigating the deformation mechanisms of a highly metastable high entropy alloy using in-situ neutron diffraction. <i>Materials Today Communications</i> , 2020 , 23, 100858	2.5	15
506	Friction stir gradient alloying: A novel solid-state high throughput screening technique for high entropy alloys. <i>Materials Today Communications</i> , 2020 , 23, 100869	2.5	11
505	An integrated computational materials engineering-anchored closed-loop method for design of aluminum alloys for additive manufacturing. <i>Materialia</i> , 2020 , 9, 100574	3.2	24
504	Friction stir processing of a metastable Litanium alloy in Land Hiphase fields. <i>Materials Science</i> & Structural Materials: Properties, Microstructure and Processing, 2020 , 772, 138705	5.3	4
503	Deformation mechanisms and ductile fracture characteristics of a friction stir processed transformative high entropy alloy. <i>Acta Materialia</i> , 2020 , 184, 164-178	8.4	19
502	Defect-based probabilistic fatigue life estimation model for an additively manufactured aluminum alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 798, 140082	5.3	8
501	Friction stir gradient alloying: A high-throughput method to explore the influence of V in enabling HCP to BCC transformation in a FFCC dominated high entropy alloy. <i>Applied Materials Today</i> , 2020 , 21, 100853	6.6	9
500	An experimental analysis and optimization of process parameters of AA6061 and AA7075 welded joint by TIG+FSP welding using RSM. <i>Advances in Materials and Processing Technologies</i> , 2020 , 1-23	0.8	14
499	Damage-tolerant, corrosion-resistant high entropy alloy with high strength and ductility by laser powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 36, 101455	6.1	8
498	Microstructurally flexible high entropy alloys: Linkages between alloy design and deformation behavior. <i>Materials and Design</i> , 2020 , 194, 108968	8.1	14
497	Effect of Strain Rate on Deformation Response of Metastable High Entropy Alloys Upon Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 5043-5048	2.3	3
496	Correlating work hardening with co-activation of stacking fault strengthening and transformation in a high entropy alloy using in-situ neutron diffraction. <i>Scientific Reports</i> , 2020 , 10, 22263	4.9	2
495	Ultrasonic spot welding of dissimilar Al 6022 and Al 7075 alloys. <i>Journal of Materials Processing Technology</i> , 2020 , 278, 116460	5.3	10
494	Exploration of Novel Nano-scale Instabilities in Metastable Beta Titanium Alloys Using Transmission Electron Microscopy and Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2276-2277	0.5	
493	On the evolving nature of c/a ratio in a hexagonal close-packed epsilon martensite phase in transformative high entropy alloys. <i>Scientific Reports</i> , 2019 , 9, 13185	4.9	22
492	Aqueous Corrosion Behavior of Cast CoCrFeMnNi Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 5970-5977	1.6	9
491	Immiscible nanostructured copper-aluminum-niobium alloy with excellent precipitation strengthening upon friction stir processing and aging. <i>Scripta Materialia</i> , 2019 , 164, 42-47	5.6	8

(2019-2019)

490	Significant Contribution to Strength Enhancement from Deformation Twins in Thermomechanically Processed Al0.1CoCrFeNi Microstructures. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 1661-1667	1.6	8	
489	Laser additive manufacturing of compositionally graded AlCrFeMoVx ($x = 0$ to 1) high-entropy alloy system. <i>Optics and Laser Technology</i> , 2019 , 113, 330-337	4.2	35	
488	Microstructure, fatigue, and impact toughness properties of additively manufactured nickel alloy 718. <i>Additive Manufacturing</i> , 2019 , 28, 661-675	6.1	24	
487	Effect of nano-sized precipitates on the fatigue property of a lamellar structured high entropy alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 760, 225-230	5.3	13	
486	Study of the influence of friction stir processing on tungsten inert gas welding of different aluminum alloy. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	17	
485	Nanoindentation behavior of high entropy alloys with transformation-induced plasticity. <i>Scientific Reports</i> , 2019 , 9, 6639	4.9	21	
484	Extremely high fatigue resistance in an ultrafine grained high entropy alloy. <i>Applied Materials Today</i> , 2019 , 15, 525-530	6.6	38	
483	Development of in situ composites via reactive friction stir processing of TiB4C system. <i>Composites Part B: Engineering</i> , 2019 , 172, 54-60	10	27	
482	Influence of ordered L1 precipitation on strain-rate dependent mechanical behavior in a eutectic high entropy alloy. <i>Scientific Reports</i> , 2019 , 9, 6371	4.9	34	
481	Role of copper on L12 precipitation strengthened fcc based high entropy alloy. <i>Materialia</i> , 2019 , 6, 100	0282	17	
480	Tribocorrosion performance of laser additively processed high-entropy alloy coatings on aluminum. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	10	
479	Revealing the microstructural evolution in a high entropy alloy enabled with transformation, twinning and precipitation. <i>Materialia</i> , 2019 , 6, 100310	3.2	12	
478	Evaluation of intermetallic compound layer at aluminum/steel interface joined by friction stir scribe technology. <i>Materials and Design</i> , 2019 , 174, 107795	8.1	42	
477	Corrosion-resistant high entropy alloy with high strength and ductility. <i>Scripta Materialia</i> , 2019 , 166, 168-172	5.6	75	
476	Channel formation during friction stir channeling process IA material flow study using X-Ray micro-computed tomography and optical microscopy. <i>Journal of Manufacturing Processes</i> , 2019 , 41, 48	-55	13	
475	Achieving Forced Mixing in Cu-Based Immiscible Alloys via Friction Stir Processing. <i>Minerals, Metals and Materials Series</i> , 2019 , 199-208	0.3	2	
474	Analysis of Material Flow and Heat Transfer in Reverse Dual Rotation Friction Stir Welding: A Review. <i>International Journal of Steel Structures</i> , 2019 , 19, 422-434	1.3	15	
473	Effect of hook characteristics on the fracture behaviour of dissimilar friction stir welded aluminium alloy and mild steel sheets. <i>Science and Technology of Welding and Joining</i> , 2019 , 24, 178-184	3.7	28	

472	A State-of-the-Art Review on Solid-State Metal Joining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	59
471	Evolution of bond formation and fracture process of ultrasonic spot welded dissimilar materials. <i>Science and Technology of Welding and Joining</i> , 2019 , 24, 171-177	3.7	4
470	Ballistic Response of a FCC-B2 Eutectic AlCoCrFeNi2.1 High Entropy Alloy. <i>Journal of Dynamic Behavior of Materials</i> , 2019 , 5, 495-503	1.8	8
469	A novel nano-particle strengthened titanium alloy with exceptional specific strength. <i>Scientific Reports</i> , 2019 , 9, 11726	4.9	6
468	Compositionally graded high entropy alloy with a strong front and ductile back. <i>Materials Today Communications</i> , 2019 , 20, 100602	2.5	13
467	Corrosion of Al0.1CoCrFeNi High Entropy Alloy in a Molten Eutectic Salt. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C3488-C3492	3.9	4
466	Friction Stir Processing of Beta C and Ti-185: A Unique Pathway to Engineer Microstructures for Exceptional Properties in Titanium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4075-4084	2.3	5
465	Characterization of as-cast microstructural heterogeneities and damage mechanisms in eutectic AlCoCrFeNi2.1 high entropy alloy. <i>Materials Characterization</i> , 2019 , 158, 109955	3.9	9
464	Effect of Stress Concentration on Strength and Fracture Behavior of Dissimilar Metal Joints. <i>Minerals, Metals and Materials Series</i> , 2019 , 33-39	0.3	1
463	Effect of reactive alloy elements on friction stir welded butt joints of metallurgically immiscible magnesium alloys and steel. <i>Journal of Manufacturing Processes</i> , 2019 , 39, 138-145	5	18
462	Wear Mechanism for H13 Steel Tool During Friction Stir Welding of CuCrZr Alloy. <i>Minerals, Metals and Materials Series</i> , 2019 , 59-64	0.3	2
461	Fatigue behavior of ultrafine grained triplex Al0.3CoCrFeNi high entropy alloy. <i>Scripta Materialia</i> , 2019 , 158, 116-120	5.6	60
460	Strengthening of Al0.3CoCrFeMnNi-based ODS high entropy alloys with incremental changes in the concentration of Y2O3. <i>Scripta Materialia</i> , 2019 , 162, 477-481	5.6	30
459	Microstructure and mechanical behavior of an additive manufactured (AM) WE43-Mg alloy. <i>Additive Manufacturing</i> , 2019 , 26, 53-64	6.1	38
458	High strain rate mechanical behavior of Ti-6Al-4V octet lattice structures additively manufactured by selective laser melting (SLM). <i>Materials Science & Discourse and Processing</i> , 2019 , 745, 231-239	5.3	24
457	AluminaNickel Composite Processed via Co-Assembly Using Freeze-Casting and Spark Plasma Sintering. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801103	3.5	8
456	Enhancing strength and strain hardenability via deformation twinning in fcc-based high entropy alloys reinforced with intermetallic compounds. <i>Acta Materialia</i> , 2019 , 165, 420-430	8.4	84
455	Corrosion Inhibition Study of Mg-Nd-Y High Strength Magnesium Alloy Using Organic Inhibitor. Journal of Materials Engineering and Performance, 2019 , 28, 852-862	1.6	14

(2018-2019)

454	High Strain Rate Response of Al0.7CoCrFeNi High Entropy Alloy: Dynamic Strength Over 2 GPa from Thermomechanical Processing and Hierarchical Microstructure. <i>Journal of Dynamic Behavior of Materials</i> , 2019 , 5, 1-7	1.8	2	
453	Technological Innovations in Metals Engineering. <i>Jom</i> , 2019 , 71, 651-654	2.1		
452	Microstructural Evolution and Deformation Behavior of Ni-Si- and Co-Si-Containing Metastable High Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 179-190	2.3	8	
45 ¹	Tensile yield strength of a single bulk Al0.3CoCrFeNi high entropy alloy can be tuned from 160 MPa to 1800 MPa. <i>Scripta Materialia</i> , 2019 , 162, 18-23	5.6	82	
450	Towards heterogeneous AlxCoCrFeNi high entropy alloy via friction stir processing. <i>Materials Letters</i> , 2019 , 236, 472-475	3.3	34	
449	Hierarchical multi-phase microstructural architecture for exceptional strength-ductility combination in a complex concentrated alloy via high-temperature severe plastic deformation. <i>Scripta Materialia</i> , 2019 , 162, 38-43	5.6	17	
448	Contrasting mechanical behavior in precipitation hardenable AlXCoCrFeNi high entropy alloy microstructures: Single phase FCC vs. dual phase FCC-BCC. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 158-166	5.3	53	
447	Deformation induced intermediate metastable lattice structures facilitate ordered B2 nucleation in a fcc-based high entropy alloy. <i>Materials Research Letters</i> , 2019 , 7, 40-46	7.4	14	
446	Performance analysis of solar parabolic trough collectors driven combined supercritical CO 2 and organic Rankine cycle 2018 , 21, 451-464		20	
445	Crystallographically degenerate B2 precipitation in a plastically deformed fcc-based complex concentrated alloy. <i>Materials Research Letters</i> , 2018 , 6, 171-177	7.4	31	
444	Performance evaluation of the supercritical organic rankine cycle (SORC) integrated with large scale solar parabolic trough collector (SPTC) system: An exergy energy analysis. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 891-899	2.5	10	
443	Influence of friction stir processing on the room temperature fatigue cracking mechanisms of A356 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2018 , 716, 165-178	5.3	39	
442	Characterization of 3? through-thickness friction stir welded 7050-T7451 Al alloy. <i>Materials Science & Materials Science amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 716, 55-62	5.3	11	
441	Friction stir lap welding of stainless steel and plain carbon steel to enhance corrosion properties. Journal of Materials Processing Technology, 2018, 259, 259-269	5.3	19	
440	Thermo-mechanical response of single-phase face-centered-cubic AlxCoCrFeNi high-entropy alloy microcrystals. <i>Materials Research Letters</i> , 2018 , 6, 300-306	7.4	11	
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261	Polycrystal Constitutive Modeling of ECAP: Texture and Microstructural Evolution 2013, 585-594		1
260	Processing, Microstructure and Mechanical Property Correlation in Al-B4C Surface Composite Produced via Friction Stir Processing 2013 , 39-46		6
259	Magnesium Based Composite Via Friction Stir Processing 2013 , 245-252		1
258	Nano-Sized Grain Refinement Using Friction Stir Processing 2013 , 9-19		1
257	Effect of Initial Microstructure on the Microstructural Evolution and Joint Efficiency of a We43 Alloy During Friction Stir Welding 2013 , 253-261		

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240	Characterization of Friction Stir Welded Sc-Modified Al-Zn-Mg-Cu Alloy Extrusions through Differential Scanning Calorimetry 2011 , 131-138		1
239	Effects of Forge Axis Force and Backing Plate Boundary Condition on FSW of AA6056 2011 , 147-158		

238	Microstructural and Mechanical Properties of Friction Stir Welding Joints of 6082-T6 with 6063-T6 2011 , 229-236		5	
237	Evaluation of Microstructure and Mechanical Properties of Aluminum to Copper Friction Stir Butt Welds 2011 , 253-264		6	
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234	Friction Stir Processing as a Base Metal Preparation Technique for Modification of Fusion Weld Microstructures 2011 , 323-331		2	
233	Towards Process Control of Friction Stir Welding for Different Aluminum Alloys 2011 , 381-388		8	
232	Tool Load and Torque Study for Portable Friction Stir Welding in Aluminum 2011, 373-379		3	
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