

# Rajiv S. Mishra

## List of Publications by Year in descending order

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535  
papers

29,672  
citations

9234

74  
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7931

149  
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603  
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603  
docs citations

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times ranked

11107  
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review on mechanical and microstructural properties of dissimilar aluminum (Al)-magnesium (Mg) alloys. Journal of Adhesion Science and Technology, 2023, 37, 1117-1149.	1.4	5
2	Modification of Microstructure and Mechanical Properties of AA6082/ZrB2 Processed by Multipass Friction Stir Processing. Journal of Materials Engineering and Performance, 2023, 32, 285-295.	1.2	20
3	An experimental analysis and optimization of process parameters of AA6061 and AA7075 welded joint by TIG+FSP welding using RSM. Advances in Materials and Processing Technologies, 2022, 8, 598-620.	0.8	33
4	Consequence of reinforced SiC particles on microstructural and mechanical properties of AA6061 surface composites by multi-pass FSP. Journal of Adhesion Science and Technology, 2022, 36, 1279-1298.	1.4	39
5	Elimination of extraordinarily high cracking susceptibility of aluminum alloy fabricated by laser powder bed fusion. Journal of Materials Science and Technology, 2022, 103, 50-58.	5.6	21
6	Effects of plasticity-induced martensitic transformation and grain refinement on the evolution of microstructure and mechanical properties of a metastable high entropy alloy. Journal of Alloys and Compounds, 2022, 891, 161871.	2.8	13
7	Ultrasonic elastography for nondestructive evaluation of dissimilar material joints. Journal of Materials Processing Technology, 2022, 299, 117301.	3.1	8
8	Alloy design and adaptation for additive manufacture. Journal of Materials Processing Technology, 2022, 299, 117358.	3.1	41
9	Mechanical properties and microstructural characteristics of additively manufactured C103 niobium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142183.	2.6	18
10	Friction stir-based additive manufacturing. Science and Technology of Welding and Joining, 2022, 27, 141-165.	1.5	57
11	Unveiling the interplay of deformation mechanisms in a metastable high entropy alloy with tuned composition using synchrotron X-ray diffraction. Materials Today Communications, 2022, 30, 103155.	0.9	0
12	Understanding the nature of passivation film formed during corrosion of Fe <sub>39</sub> Mn <sub>20</sub> Co <sub>20</sub> Cr <sub>15</sub> Si <sub>5</sub> Al <sub>1</sub> high entropy alloy in 3.5wt% NaCl solution. Journal of Alloys and Compounds, 2022, 904, 164100.	2.8	17
13	Cyclic Thermal Dependent Microstructure Evolution During Laser Directed Energy Deposition of H13 Steel. Transactions of the Indian Institute of Metals, 2022, 75, 1007-1014.	0.7	2
14	Role of Cu addition in enhancing strength-ductility synergy in transforming high entropy alloy. Materials and Design, 2022, 215, 110487.	3.3	16
15	Metastable high entropy alloys. Applied Physics Letters, 2022, 120, .	1.5	3
16	Pathways to Titanium Martensite. Transactions of the Indian Institute of Metals, 2022, 75, 1051-1068.	0.7	3
17	Microstructural and mechanical behavior of micro-sized SiC particles reinforced friction stir processed/welded AA7075 and AA6061. Silicon, 2022, 14, 10741-10753.	1.8	10
18	Work hardening in metastable high entropy alloys: a modified five-parameter model. Journal of Materials Research and Technology, 2022, 18, 3358-3372.	2.6	10

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19	Influence of Reinforcement with Multi-Pass FSW on the Mechanical and Microstructural Behavior of Dissimilar Weld Joint of AA5083 and AA6061. Silicon, 2022, 14, 11219-11233.	1.8	8
20	Highly complex magnetic behavior resulting from hierarchical phase separation in AlCo(Cr)FeNi high-entropy alloys. IScience, 2022, 25, 104047.	1.9	8
21	Mechanical Properties and Microstructure Evolution Of AA6082/Sic Nanocomposite Processed by Multi-Pass FSP. Transactions of the Indian Institute of Metals, 2022, 75, 2077-2090.	0.7	26
22	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on microstructure and mechanical properties of friction stir-welded dissimilar aluminum alloys AA7075-T6 and AA6061-T6. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 1511-1521.	1.4	16
23	Additive friction stir deposition of AZ31B magnesium alloy. Journal of Magnesium and Alloys, 2022, 10, 2404-2420.	5.5	30
24	Influence of welding parameters on mechanical, microstructure, and corrosion behavior of friction stir welded Al 7017 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 846, 143303.	2.6	13
25	Stress contribution of B2 phase in Al <sub>0.7</sub> CoCrFeNi eutectic high entropy alloy. Journal of Alloys and Compounds, 2022, 918, 165673.	2.8	4
26	Friction stir welding of SS 316 LN and Nitronic 50 jacket sections for application in superconducting fusion magnet systems. Materials and Design, 2022, 221, 110949.	3.3	5
27	Effect of friction stir processing on mechanical properties and heat transfer of TIG welded joint of AA6061 and AA7075. Defence Technology, 2021, 17, 715-727.	2.1	47
28	Additively manufactured novel Al-Cu-Sc-Zr alloy: Microstructure and mechanical properties. Additive Manufacturing, 2021, 37, 101623.	1.7	11
29	Additive friction stir deposition: a deformation processing route to metal additive manufacturing. Materials Research Letters, 2021, 9, 71-83.	4.1	96
30	Microstructure-Property Correlation in a Laser Powder Bed Fusion Processed High-Strength AF628 Steel. Advanced Engineering Materials, 2021, 23, .	1.6	7
31	Stress Corrosion Cracking of TRIP Fe <sub>39</sub> Mn <sub>20</sub> Co <sub>20</sub> Cr <sub>15</sub> Si <sub>5</sub> Al <sub>1</sub> (at.%) High Entropy Alloy. Minerals, Metals and Materials Series, 2021, , 742-750.	0.3	1
32	Crystallographic texture dependent bulk anisotropic elastic response of additively manufactured Ti6Al4V. Scientific Reports, 2021, 11, 633.	1.6	16
33	Co-introduction of precipitate hardening and TRIP in a TWIP high-entropy alloy using friction stir alloying. Scientific Reports, 2021, 11, 1579.	1.6	8
34	Optimization of friction stir welding process parameters during joining of aluminum alloys of AA6061 and AA6082. Materials Today: Proceedings, 2021, 45, 5368-5376.	0.9	10
35	Effect of Friction Stir Processing on Mechanical Properties and Wear Resistance of Tungsten Inert Gas Welded Joint of Dissimilar Aluminum Alloys. Journal of Materials Engineering and Performance, 2021, 30, 1926-1937.	1.2	40
36	Some Unique Aspects of Mechanical Behavior of Metastable Transformative High Entropy Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 889-896.	1.1	17

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37	Effect of supercritical CO <sub>2</sub> on salt water corrosion and wear resistance of bismaleimide coating filled with organophilic montmorillonite clay. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 2301-2318.	1.4	2
38	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.	2.7	27
39	Development of Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> 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.	0.6	19
40	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.	1.1	8
41	Precipitation in nanostructured alloys: A brief review. <i>MRS Bulletin</i> , 2021, 46, 250-257.	1.7	11
42	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.	3.8	45
43	High entropy alloys "Tunability of deformation mechanisms through integration of compositional and microstructural domains. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 141085.	2.6	75
44	Strain rate sensitive microstructural evolution in a TRIP assisted high entropy alloy: Experiments, microstructure and modeling. <i>Mechanics of Materials</i> , 2021, 156, 103798.	1.7	19
45	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.	0.7	25
46	Insights into Defect-Mediated Nucleation of Equilibrium B2 Phase in Face-Centered Cubic High-Entropy Alloys. <i>Jom</i> , 2021, 73, 2320-2331.	0.9	5
47	Design of heterogeneous structured Al alloys with wide processing window for laser-powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2021, 42, 102002.	1.7	10
48	Design approaches for printability-performance synergy in Al alloys for laser-powder bed additive manufacturing. <i>Materials and Design</i> , 2021, 204, 109640.	3.3	80
49	Direct evidence of the stacking fault-mediated strain hardening phenomenon. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	18
50	Modeling the work hardening behavior in metastable high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 823, 141778.	2.6	11
51	Friction stir processing of a high entropy alloy Fe <sub>42</sub> Co <sub>10</sub> Cr <sub>15</sub> Mn <sub>28</sub> Si <sub>5</sub> with transformative characteristics: Microstructure and mechanical properties. <i>Materials Today Communications</i> , 2021, 28, 102635.	0.9	4
52	Transformative high entropy alloy conquers the strength-ductility paradigm by massive interface strengthening. <i>Scripta Materialia</i> , 2021, 203, 114070.	2.6	13
53	Metastable high entropy alloys: An excellent defect tolerant material for additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 142005.	2.6	21
54	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.	3.8	67

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55	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, 160265.	2.8	34
56	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.	3.8	59
57	Friction stir welding of $\hat{1}^3$ -fcc dominated metastable high entropy alloy: Microstructural evolution and strength. <i>Scripta Materialia</i> , 2021, 204, 114161.	2.6	20
58	Processing-structure-property correlation in additive friction stir deposited Ti-6Al-4V alloy from recycled metal chips. <i>Additive Manufacturing</i> , 2021, 47, 102259.	1.7	27
59	Proton irradiation induced chemical ordering in an $Al_{0.3}CoFeNi$ high entropy alloy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4
60	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.	1.2	31
61	Excellent ballistic impact resistance of $Al_{0.3}CoCrFeNi$ multi-principal element alloy with unique bimodal microstructure. <i>Scientific Reports</i> , 2021, 11, 22715.	1.6	14
62	Ultrasonic spot welding of dissimilar Al 6022 and Al 7075 alloys. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116460.	3.1	15
63	Aging response on the stress corrosion cracking behavior of wrought precipitation-hardened magnesium alloy. <i>Journal of Materials Science</i> , 2020, 55, 1216-1230.	1.7	10
64	Enhanced tensile yield strength in laser additively manufactured $Al_{0.3}CoCrFeNi$ high entropy alloy. <i>Materialia</i> , 2020, 9, 100522.	1.3	46
65	Deformation of lamellar FCC-B2 nanostructures containing Kurdjumov-Sachs interfaces: Relation between interfacial structure and plasticity. <i>International Journal of Plasticity</i> , 2020, 125, 191-209.	4.1	33
66	Interplay between single phase solid solution strengthening and multi-phase strengthening in the same high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138620.	2.6	26
67	Superplasticity in fine grained dual phase high entropy alloy. <i>Materialia</i> , 2020, 9, 100521.	1.3	20
68	Hall-Petch and inverse Hall-Petch relations in high-entropy $CoNiFeAlxCu_{1-x}$ alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138873.	2.6	93
69	Investigating the deformation mechanisms of a highly metastable high entropy alloy using in-situ neutron diffraction. <i>Materials Today Communications</i> , 2020, 23, 100858.	0.9	18
70	Friction stir gradient alloying: A novel solid-state high throughput screening technique for high entropy alloys. <i>Materials Today Communications</i> , 2020, 23, 100869.	0.9	14
71	An integrated computational materials engineering-anchored closed-loop method for design of aluminum alloys for additive manufacturing. <i>Materialia</i> , 2020, 9, 100574.	1.3	40
72	Friction stir processing of a metastable $\hat{1}^2$ titanium alloy in $\hat{1}^2$ and $\hat{1}^{\pm}+\hat{1}^2$ phase fields. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138705.	2.6	8

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73	Deformation mechanisms and ductile fracture characteristics of a friction stir processed transformative high entropy alloy. <i>Acta Materialia</i> , 2020, 184, 164-178.	3.8	30
74	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.	2.6	25
75	Friction stir gradient alloying: A high-throughput method to explore the influence of V in enabling HCP to BCC transformation in a $\beta$ -FCC dominated high entropy alloy. <i>Applied Materials Today</i> , 2020, 21, 100853.	2.3	17
76	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.	1.7	17
77	Microstructurally flexible high entropy alloys: Linkages between alloy design and deformation behavior. <i>Materials and Design</i> , 2020, 194, 108968.	3.3	34
78	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.	1.1	5
79	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.	1.6	17
80	Dynamic Shear Deformation of a Precipitation Hardened Al <sub>0.7</sub> CoCrFeNi Eutectic High-Entropy Alloy Using Hat-Shaped Specimen Geometry. <i>Entropy</i> , 2020, 22, 431.	1.1	16
81	Metastability driven hierarchical microstructural engineering: Overview of mechanical properties of metastable complex concentrated alloys. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155625.	2.8	24
82	Ballistic Impact Response of Al <sub>0.1</sub> CoCrFeNi High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2020, 22, 2070025.	1.6	2
83	Highly tunable magnetic and mechanical properties in an Al <sub>0.3</sub> CoFeNi complex concentrated alloy. <i>Materialia</i> , 2020, 12, 100755.	1.3	17
84	Hierarchical Eutectoid Nano-lamellar Decomposition in an Al <sub>0.3</sub> CoFeNi Complex Concentrated Alloy. <i>Scientific Reports</i> , 2020, 10, 4836.	1.6	27
85	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.	4.1	33
86	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.	1.5	40
87	Excellent high cyclic fatigue properties of a novel ultrafine-grained medium entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 779, 139122.	2.6	31
88	Effect of temperature on the fatigue cracking mechanisms in A356 Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 780, 139175.	2.6	10
89	Excellent strength-ductility synergy in metastable high entropy alloy by laser powder bed additive manufacturing. <i>Additive Manufacturing</i> , 2020, 32, 101098.	1.7	29
90	Notch-tensile behavior of Al <sub>0.1</sub> CrFeCoNi high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138918.	2.6	13

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91	Process-Dependent Composition, Microstructure, and Printability of Al-Zn-Mg and Al-Zn-Mg-Sc-Zr Alloys Manufactured by Laser Powder Bed Fusion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3215-3227.	1.1	48
92	Ballistic Impact Response of Al <sub>0.1</sub> CoCrFeNi High-Entropy Alloy. Advanced Engineering Materials, 2020, 22, 2000124.	1.6	21
93	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of TIG Welded Joint of AA6061 and AA7075. Metallography, Microstructure, and Analysis, 2020, 9, 403-418.	0.5	43
94	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TIG-Welded Joint of AA6061 and AA7075. Transactions of the Indian Institute of Metals, 2020, 73, 1773-1788.	0.7	54
95	Friction stir butt welding of a high strength Al-7050 alloy with a metastable transformative high entropy alloy. Materialia, 2020, 11, 100740.	1.3	13
96	Achieving extraordinary structural efficiency in a wrought magnesium rare earth alloy. Materials Research Letters, 2020, 8, 151-157.	4.1	22
97	Hierarchically Structured Ultrafine Grained Magnesium Alloys. Minerals, Metals and Materials Series, 2020, , 7-11.	0.3	0
98	Fatigue Behavior of High Entropy Alloys. , 2020, , 411-428.		0
99	Analysis of Material Flow and Heat Transfer in Reverse Dual Rotation Friction Stir Welding: A Review. International Journal of Steel Structures, 2019, 19, 422-434.	0.6	18
100	Effect of hook characteristics on the fracture behaviour of dissimilar friction stir welded aluminium alloy and mild steel sheets. Science and Technology of Welding and Joining, 2019, 24, 178-184.	1.5	38
101	A State-of-the-Art Review on Solid-State Metal Joining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	111
102	Evolution of bond formation and fracture process of ultrasonic spot welded dissimilar materials. Science and Technology of Welding and Joining, 2019, 24, 171-177.	1.5	12
103	Ballistic Response of a FCC-B2 Eutectic AlCoCrFeNi <sub>2.1</sub> High Entropy Alloy. Journal of Dynamic Behavior of Materials, 2019, 5, 495-503.	1.1	14
104	A novel nano-particle strengthened titanium alloy with exceptional specific strength. Scientific Reports, 2019, 9, 11726.	1.6	11
105	Compositionally graded high entropy alloy with a strong front and ductile back. Materials Today Communications, 2019, 20, 100602.	0.9	18
106	Corrosion of Al <sub>0.1</sub> CoCrFeNi High Entropy Alloy in a Molten Eutectic Salt. Journal of the Electrochemical Society, 2019, 166, C3488-C3492.	1.3	13
107	Friction Stir Processing of Beta C and Ti-185: A Unique Pathway to Engineer Microstructures for Exceptional Properties in $\beta^2$ Titanium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4075-4084.	1.1	6
108	Characterization of as-cast microstructural heterogeneities and damage mechanisms in eutectic AlCoCrFeNi <sub>2.1</sub> high entropy alloy. Materials Characterization, 2019, 158, 109955.	1.9	26

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109	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.	0.2	0
110	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.	1.6	40
111	Aqueous Corrosion Behavior of Cast CoCrFeMnNi Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5970-5977.	1.2	14
112	Immiscible nanostructured copper-aluminum-niobium alloy with excellent precipitation strengthening upon friction stir processing and aging. <i>Scripta Materialia</i> , 2019, 164, 42-47.	2.6	13
113	Significant Contribution to Strength Enhancement from Deformation Twins in Thermomechanically Processed Al <sub>0.1</sub> CoCrFeNi Microstructures. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 1661-1667.	1.2	10
114	Laser additive manufacturing of compositionally graded AlCrFeMoV <sub>x</sub> (x = 0 to 1) high-entropy alloy system. <i>Optics and Laser Technology</i> , 2019, 113, 330-337.	2.2	55
115	Microstructure, fatigue, and impact toughness properties of additively manufactured nickel alloy 718. <i>Additive Manufacturing</i> , 2019, 28, 661-675.	1.7	32
116	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.	2.6	28
117	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.	1.5	36
118	Nanoindentation behavior of high entropy alloys with transformation-induced plasticity. <i>Scientific Reports</i> , 2019, 9, 6639.	1.6	41
119	Extremely high fatigue resistance in an ultrafine grained high entropy alloy. <i>Applied Materials Today</i> , 2019, 15, 525-530.	2.3	61
120	Development of in situ composites via reactive friction stir processing of Ti-B4C system. <i>Composites Part B: Engineering</i> , 2019, 172, 54-60.	5.9	38
121	Influence of ordered L12 precipitation on strain-rate dependent mechanical behavior in a eutectic high entropy alloy. <i>Scientific Reports</i> , 2019, 9, 6371.	1.6	59
122	Role of copper on L12 precipitation strengthened fcc based high entropy alloy. <i>Materialia</i> , 2019, 6, 100282.	1.3	31
123	Tribocorrosion performance of laser additively processed high-entropy alloy coatings on aluminum. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	13
124	Revealing the microstructural evolution in a high entropy alloy enabled with transformation, twinning and precipitation. <i>Materialia</i> , 2019, 6, 100310.	1.3	16
125	Evaluation of intermetallic compound layer at aluminum/steel interface joined by friction stir scribe technology. <i>Materials and Design</i> , 2019, 174, 107795.	3.3	70
126	Corrosion-resistant high entropy alloy with high strength and ductility. <i>Scripta Materialia</i> , 2019, 166, 168-172.	2.6	148



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127	Channel formation during friction stir channeling process – A material flow study using X-Ray micro-computed tomography and optical microscopy. <i>Journal of Manufacturing Processes</i> , 2019, 41, 48-55.	2.8	22
128	Achieving Forced Mixing in Cu-Based Immiscible Alloys via Friction Stir Processing. <i>Minerals, Metals and Materials Series</i> , 2019, , 199-208.	0.3	3
129	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.	2.8	26
130	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
131	Fatigue behavior of ultrafine grained triplex Al <sub>0.3</sub> CoCrFeNi high entropy alloy. <i>Scripta Materialia</i> , 2019, 158, 116-120.	2.6	101
132	Strengthening of Al <sub>0.3</sub> CoCrFeMnNi-based ODS high entropy alloys with incremental changes in the concentration of Y <sub>2</sub> O <sub>3</sub> . <i>Scripta Materialia</i> , 2019, 162, 477-481.	2.6	52
133	Microstructure and mechanical behavior of an additive manufactured (AM) WE43-Mg alloy. <i>Additive Manufacturing</i> , 2019, 26, 53-64.	1.7	50
134	High strain rate mechanical behavior of Ti-6Al-4V octet lattice structures additively manufactured by selective laser melting (SLM). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 231-239.	2.6	37
135	Alumina–Nickel Composite Processed via Co–Assembly Using Freeze–Casting and Spark Plasma Sintering. <i>Advanced Engineering Materials</i> , 2019, 21, 1801103.	1.6	17
136	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.	3.8	155
137	Corrosion Inhibition Study of Mg-Nd-Y High Strength Magnesium Alloy Using Organic Inhibitor. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 852-862.	1.2	22
138	High Strain Rate Response of Al <sub>0.7</sub> CoCrFeNi 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.	1.1	4
139	Technological Innovations in Metals Engineering. <i>Jom</i> , 2019, 71, 651-654.	0.9	0
140	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.	1.1	10
141	Tensile yield strength of a single bulk Al <sub>0.3</sub> CoCrFeNi high entropy alloy can be tuned from 160 MPa to 1800 MPa. <i>Scripta Materialia</i> , 2019, 162, 18-23.	2.6	138
142	Towards heterogeneous Al <sub>x</sub> CoCrFeNi high entropy alloy via friction stir processing. <i>Materials Letters</i> , 2019, 236, 472-475.	1.3	48
143	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.	2.6	30
144	Contrasting mechanical behavior in precipitation hardenable Al <sub>x</sub> CoCrFeNi 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.	2.6	97

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145	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.	4.1	20
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