

Chanho Lee

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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.

338
papers

16,435
citations

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121
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352
ext. papers

21,488
ext. citations

5.2
avg. IF

7.19
L-index

#	Paper	IF	Citations
338	Microstructures and properties of high-entropy alloys. <i>Progress in Materials Science</i> , 2014 , 61, 1-93	42.2	3296
337	Refractory high-entropy alloys. <i>Intermetallics</i> , 2010 , 18, 1758-1765	3.5	1234
336	Fatigue behavior of Al _{0.5} CoCrCuFeNi high entropy alloys. <i>Acta Materialia</i> , 2012 , 60, 5723-5734	8.4	492
335	Deviation from high-entropy configurations in the atomic distributions of a multi-principal-element alloy. <i>Nature Communications</i> , 2015 , 6, 5964	17.4	416
334	Twinning-detwinning behavior during the strain-controlled low-cycle fatigue testing of a wrought magnesium alloy, ZK60A. <i>Acta Materialia</i> , 2008 , 56, 688-695	8.4	408
333	Science and technology in high-entropy alloys. <i>Science China Materials</i> , 2018 , 61, 2-22	7.1	404
332	Corrosion-Resistant High-Entropy Alloys: A Review. <i>Metals</i> , 2017 , 7, 43	2.3	329
331	Corrosion of Al CoCrFeNi high-entropy alloys: Al-content and potential scan-rate dependent pitting behavior. <i>Corrosion Science</i> , 2017 , 119, 33-45	6.8	310
330	High-entropy Al _{0.3} CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. <i>Acta Materialia</i> , 2017 , 123, 285-294	8.4	262
329	Fatigue behavior of a wrought Al _{0.5} CoCrCuFeNi two-phase high-entropy alloy. <i>Acta Materialia</i> , 2015 , 99, 247-258	8.4	255
328	Enhanced strength-ductility synergy in ultrafine-grained eutectic high-entropy alloys by inheriting microstructural lamellae. <i>Nature Communications</i> , 2019 , 10, 489	17.4	251
327	Secondary phases in Al _x CoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. <i>Acta Materialia</i> , 2017 , 131, 206-220	8.4	194
326	Microstructures and properties of high-entropy alloy films and coatings: a review. <i>Materials Research Letters</i> , 2018 , 6, 199-229	7.4	184
325	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. <i>Jom</i> , 2013 , 65, 1848-1858	2.1	180
324	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi _{0.2} high-entropy alloy at room and cryogenic temperatures. <i>Acta Materialia</i> , 2019 , 165, 228-240	8.4	178
323	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018 , 160, 158-172	8.4	173
322	Enhancement of strength-ductility trade-off in a high-entropy alloy through a heterogeneous structure. <i>Acta Materialia</i> , 2019 , 165, 444-458	8.4	162

321	Microstructure and Compressive Properties of NbTiVTaAl _x High Entropy Alloys. <i>Procedia Engineering</i> , 2012 , 36, 292-298		156
320	Understanding phase stability of Al-Co-Cr-Fe-Ni high entropy alloys. <i>Materials and Design</i> , 2016 , 109, 425-433	8.1	154
319	Tailoring magnetic behavior of CoFeMnNiX (X= Al, Cr, Ga, and Sn) high entropy alloys by metal doping. <i>Acta Materialia</i> , 2017 , 130, 10-18	8.4	143
318	Homogenization of Al CoCrFeNi high-entropy alloys with improved corrosion resistance. <i>Corrosion Science</i> , 2018 , 133, 120-131	6.8	143
317	Serration and noise behaviors in materials. <i>Progress in Materials Science</i> , 2017 , 90, 358-460	42.2	128
316	The high-entropy alloys with high hardness and soft magnetic property prepared by mechanical alloying and high-pressure sintering. <i>Intermetallics</i> , 2016 , 70, 82-87	3.5	127
315	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209	3.09	126
314	Local Atomic Structure of a High-Entropy Alloy: An X-Ray and Neutron Scattering Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1994-1997	7.3	121
313	Alloying and Processing Effects on the Aqueous Corrosion Behavior of High-Entropy Alloys. <i>Entropy</i> , 2014 , 16, 895-911	2.8	119
312	Mechanical behavior of high-entropy alloys. <i>Progress in Materials Science</i> , 2021 , 118, 100777	42.2	115
311	Design of Light-Weight High-Entropy Alloys. <i>Entropy</i> , 2016 , 18, 333	2.8	105
310	Biodegradable MgZnCaBr bulk metallic glasses with enhanced corrosion performance for biomedical applications. <i>Materials & Design</i> , 2015 , 67, 9-19		101
309	Fracture resistance of high entropy alloys: A review. <i>Intermetallics</i> , 2018 , 99, 69-83	3.5	95
308	Fracture Toughness and Fatigue Crack Growth Behavior of As-Cast High-Entropy Alloys. <i>Jom</i> , 2015 , 67, 2288-2295	2.1	93
307	Responses of bone-forming cells on pre-immersed Zr-based bulk metallic glasses: Effects of composition and roughness. <i>Acta Biomaterialia</i> , 2011 , 7, 395-405	10.8	93
306	VULCAN: the engineering diffractometer at the SNS. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 673-675	5.8	92
305	Microstructures and Crackling Noise of Al _x NbTiMoV High Entropy Alloys. <i>Entropy</i> , 2014 , 16, 870-884	2.8	90
304	Amorphous metals for hard-tissue prosthesis. <i>Jom</i> , 2010 , 62, 83-91	2.1	86

303	A cuboidal B2 nanoprecipitation-enhanced body-centered-cubic alloy Al _{0.7} CoCrFe ₂ Ni with prominent tensile properties. <i>Scripta Materialia</i> , 2016 , 120, 85-89	5.6	86
302	Solid-Solution CrCoCuFeNi High-Entropy Alloy Thin Films Synthesized by Sputter Deposition. <i>Materials Research Letters</i> , 2015 , 3, 203-209	7.4	84
301	Microstructures and mechanical properties of Al _x CrFeNiTi _{0.25} alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 619, 610-615	5.7	82
300	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy, and High-Entropy Alloys. <i>Scientific Reports</i> , 2015 , 5, 16997	4.9	81
299	Characterization of nanoscale NiAl-type precipitates in a ferritic steel by electron microscopy and atom probe tomography. <i>Scripta Materialia</i> , 2010 , 63, 61-64	5.6	81
298	Effect of Microstructure on the Deformation Mechanism of Friction Stir-Processed Al _{0.1} CoCrFeNi High Entropy Alloy. <i>Materials Research Letters</i> , 2015 , 3, 30-34	7.4	79
297	Additive Manufacturing of High-Entropy Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	78
296	Recrystallization Behavior of CoCrCuFeNi High-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1481-1487	2.3	77
295	Phase stability and transformation in a light-weight high-entropy alloy. <i>Acta Materialia</i> , 2018 , 146, 280-293	2.3	76
294	The BCC/B2 Morphologies in Al _x NiCoFeCr High-Entropy Alloys. <i>Metals</i> , 2017 , 7, 57	2.3	76
293	Study of the structural relaxation-induced embrittlement of hypoeutectic Zr ₄₀ Ti ₄₀ Al ternary bulk glassy alloys. <i>Acta Materialia</i> , 2008 , 56, 6097-6108	8.4	75
292	Towards a greater understanding of serrated flows in an Al-containing high-entropy-based alloy. <i>International Journal of Plasticity</i> , 2019 , 115, 71-92	7.6	75
291	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. <i>Science China Materials</i> , 2019 , 62, 853-863	7.1	70
290	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. <i>Scientific Reports</i> , 2015 , 5, 16327	4.9	66
289	Low-Cycle Fatigue Behavior of an As-Extruded AM50 Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2235-2241	2.3	65
288	Effects of Al on the microstructure and ductility of NiAl-strengthened ferritic steels at room temperature. <i>Intermetallics</i> , 2010 , 18, 1437-1443	3.5	64
287	Development and Characterization of Low-Density Ca-Based Bulk Metallic Glasses: An Overview. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1888-1900	2.3	64
286	Mechanical, corrosion, and wear properties of biomedical Ti ₄₀ Zr ₂₀ Nb ₁₀ Ta ₁₀ Mo high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 157997	5.7	61

285	Grain growth and Hall-Petch relationship in a refractory HfNbTaZrTi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 19-26	5.7	60
284	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. <i>Science</i> , 2021 , 373, 912-918	33.3	60
283	A Zr-based bulk metallic glass for future stent applications: Materials properties, finite element modeling, and in vitro human vascular cell response. <i>Acta Biomaterialia</i> , 2015 , 25, 356-68	10.8	58
282	Nanoscale serration and creep characteristics of Al _{0.5} CoCrCuFeNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 464-475	5.7	57
281	Understanding the Cu-Zn brass alloys using a short-range-order cluster model: significance of specific compositions of industrial alloys. <i>Scientific Reports</i> , 2014 , 4, 7065	4.9	57
280	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. <i>Scripta Materialia</i> , 2021 , 204, 114132	5.6	57
279	Processing effects on the magnetic and mechanical properties of FeCoNiAl _{0.2} Si _{0.2} high entropy alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013 , 20, 549-555	3.1	55
278	The fatigue behavior of shape-memory alloys. <i>Jom</i> , 2000 , 52, 45-51	2.1	55
277	Structural Stabilities of Ti Alloys Studied Using a New Mo Equivalent Derived from $\left[\frac{1}{\sqrt{3}} \right]$ Phase-Boundary Slopes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3440-3447	2.3	54
276	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , 2018 , 61, 168-178	3.5	53
275	Wear behavior of Al _{0.6} CoCrFeNi high-entropy alloys: Effect of environments. <i>Journal of Materials Research</i> , 2018 , 33, 3310-3320	2.5	53
274	Atomistic clustering-ordering and high-strain deformation of an Al _{0.1} CrCoFeNi high-entropy alloy. <i>Scientific Reports</i> , 2016 , 6, 31028	4.9	52
273	Fatigue and fracture behavior of bulk metallic glasses and their composites. <i>Progress in Materials Science</i> , 2018 , 98, 168-248	42.2	52
272	First-principles and machine learning predictions of elasticity in severely lattice-distorted high-entropy alloys with experimental validation. <i>Acta Materialia</i> , 2019 , 181, 124-138	8.4	51
271	Evolution of Mechanical Properties of Cast Zr ₅₀ Cu ₄₀ Al ₁₀ Glassy Alloys by Structural Relaxation. <i>Materials Transactions</i> , 2005 , 46, 2755-2761	1.3	51
270	Gradient cell-structured high-entropy alloy with exceptional strength and ductility. <i>Science</i> , 2021 , 374, 984-989	33.3	49
269	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	48
268	First-principles prediction of high-entropy-alloy stability. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	47

267	The superior hydrogen-generation performance of multi-component Al alloys by the hydrolysis reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3527-3537	6.7	47
266	Temperature effects on the serrated behavior of an Al _{0.5} CoCrCuFeNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 20-28	4.4	45
265	A Review of the Serrated-Flow Phenomenon and Its Role in the Deformation Behavior of High-Entropy Alloys. <i>Metals</i> , 2020 , 10, 1101	2.3	44
264	Plasticity of bulk metallic glasses improved by controlling the solidification condition. <i>Journal of Materials Research</i> , 2008 , 23, 941-948	2.5	42
263	Coherent Precipitation and Strengthening in Compositionally Complex Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	42
262	A Brief Review of High Entropy Alloys and Serration Behavior and Flow Units. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 2-6	1.2	40
261	Fatigue-Strength Enhancement of Cast Zr ₅₀ Cu ₄₀ Al ₁₀ Glassy Alloys. <i>Materials Transactions</i> , 2006 , 47, 1286-1293	1.3	40
260	Lattice-Distortion-Enhanced Yield Strength in a Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2020 , 32, e2004029	24	40
259	The fcc-bcc crystallographic orientation relationship in Al _x CoCrFeNi high-entropy alloys. <i>Materials Letters</i> , 2016 , 176, 29-32	3.3	40
258	Atomic and electronic basis for the serrations of refractory high-entropy alloys. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	39
257	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. <i>Science Advances</i> , 2020 , 6,	14.3	39
256	Effects of Temperature on Serrated Flows of Al _{0.5} CoCrCuFeNi High-Entropy Alloy. <i>Jom</i> , 2015 , 67, 2314-2320	3.8	38
255	Fundamental understanding of mechanical behavior of high-entropy alloys at low temperatures: A review. <i>Journal of Materials Research</i> , 2018 , 33, 2998-3010	2.5	38
254	Inter- and intragranular stresses in cyclically-deformed 316 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 399, 114-119	5.3	37
253	Effect of temperature on mechanical behavior of Zr-based bulk metallic glasses. <i>Applied Physics Letters</i> , 2006 , 89, 041921	3.4	36
252	Probing the Characteristic Deformation Behaviors of Transformation-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 3105-3112	2.3	35
251	Mapping Residual Stress Distributions at the Micron Scale in Amorphous Materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1743-1751	2.3	34
250	Elastic properties of Zr-based bulk metallic glasses studied by resonant ultrasound spectroscopy. <i>Journal of Materials Research</i> , 2007 , 22, 364-367	2.5	34

249	In Situ Neutron-Diffraction Studies on the Creep Behavior of a Ferritic Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1497-1508	2.3	33
248	Global melting of Zr ₅₇ Ti ₅ Ni ₈ Cu ₂₀ Al ₁₀ bulk metallic glass under microcompression. <i>Applied Physics Letters</i> , 2007 , 91, 201917	3.4	33
247	High-temperature high-entropy alloys Al _x Co ₁₅ Cr ₁₅ Ni _{70-x} based on the Al-Ni binary system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 283-288	5.3	32
246	Effects of Constituent Elements and Fabrication Methods on Mechanical Behavior of High-Entropy Alloys: A Review. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1-28	2.3	32
245	Pressure-induced phase transitions in HoDyYGdTb high-entropy alloy. <i>Materials Letters</i> , 2017 , 196, 137-140	3.9	31
244	Rate-Dependent Deformation Behavior of Zr-Based Metallic-Glass Coatings Examined by Nanoindentation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1862-1867	2.3	31
243	Fatigue and Fracture of a Bulk Nanocrystalline NiFe Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1145-1156	2.3	31
242	Biocompatibility Study of Zirconium-Based Bulk Metallic Glasses for Orthopedic Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1726-1734	2.3	30
241	Microstructures and mechanical properties of body-centered-cubic (Al,Ti) _{0.7} (Ni,Co,Fe,Cr) ₅ high entropy alloys with coherent B2/L21 nanoprecipitation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 737, 286-296	5.3	30
240	Duplex Precipitates and Their Effects on the Room-temperature Fracture Behaviour of a NiAl-Strengthened Ferritic Alloy. <i>Materials Research Letters</i> , 2015 , 3, 128-134	7.4	29
239	Grain size dependence of tensile behavior in nanocrystalline NiFe alloys. <i>Journal of Materials Science</i> , 2006 , 41, 7636-7642	4.3	29
238	Al _{0.3} Cr _x FeCoNi high-entropy alloys with high corrosion resistance and good mechanical properties. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158436	5.7	29
237	A Novel Low-Activation VCrFeTaW (= 0.1, 0.2, 0.3, 0.4, and 1) High-Entropy Alloys with Excellent Heat-Softening Resistance. <i>Entropy</i> , 2018 , 20,	2.8	29
236	Discovery and design of fatigue-resistant high-entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 68-75	5.6	28
235	Nano-sized precipitate stability and its controlling factors in a NiAl-strengthened ferritic alloy. <i>Scientific Reports</i> , 2015 , 5, 16081	4.9	28
234	Superelasticity and Serration Behavior in Small-Sized NiMnGa Alloys. <i>Advanced Engineering Materials</i> , 2014 , 16, 955-960	3.5	28
233	In situ observation of pitting corrosion of the Zr ₅₀ Cu ₄₀ Al ₁₀ bulk metallic glass. <i>Intermetallics</i> , 2009 , 17, 568-571	3.5	28
232	Characterization of Fatigue Damage Modes in Nicalon/Calcium Aluminosilicate Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2005 , 127, 8-15	1.8	28

231	An as-cast high-entropy alloy with remarkable mechanical properties strengthened by nanometer precipitates. <i>Nanoscale</i> , 2020 , 12, 3965-3976	7.7	28
230	Novel NiAl-strengthened high entropy alloys with balanced tensile strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 636-647	5.3	28
229	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. <i>International Journal of Plasticity</i> , 2019 , 122, 212-224	7.6	27
228	Glass-Forming Ability and Competitive Crystalline Phases for Lightweight Ti-BeBased Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1670-1676 ^{2,3}	2.3	27
227	Study of nanoprecipitates in a nickel-based superalloy using small-angle neutron scattering and transmission electron microscopy. <i>Applied Physics Letters</i> , 2008 , 93, 161904	3.4	27
226	Local Structures of High-Entropy Alloys (HEAs) on Atomic Scales: An Overview. <i>Jom</i> , 2015 , 67, 2321-2325.1	5.1	26
225	Mechanical and Fatigue Behavior of Ca ₆₅ Mg ₁₅ Zn ₂₀ Bulk-Metallic Glass. <i>Advanced Engineering Materials</i> , 2009 , 11, 27-34	3.5	26
224	Creep, fatigue, and fracture behavior of high-entropy alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3011-3034	2.5	25
223	Rate-Dependent Temperature Increases in Shear Bands of a Bulk-Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1822-1830	2.3	25
222	Effects of Cu and Zn on microstructures and mechanical behavior of the medium-entropy aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153092	5.7	25
221	High-throughput design of high-performance lightweight high-entropy alloys. <i>Nature Communications</i> , 2021 , 12, 4329	17.4	25
220	High-throughput simulation combined machine learning search for optimum elemental composition in medium entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 70-75	9.1	25
219	Nano oxides reinforced high-entropy alloy coatings synthesized by atmospheric plasma spraying. <i>Materials Research Letters</i> , 2019 , 7, 312-319	7.4	24
218	Fatigue initiation and propagation behavior in bulk-metallic glasses under a bending load. <i>Journal of Applied Physics</i> , 2010 , 108, 113512	2.5	24
217	Metallic glasses: Gaining plasticity for microsystems. <i>Jom</i> , 2010 , 62, 93-98	2.1	24
216	Slip-System-Related Dislocation Study from In-Situ Neutron Measurements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 3079-3088	2.3	24
215	Effects of temperature and strain rate on plastic deformation mechanisms of nanocrystalline high-entropy alloys. <i>Intermetallics</i> , 2020 , 120, 106741	3.5	23
214	Fatigue-Property Enhancement of Magnesium Alloy, AZ31B, through Equal-Channel-Angular Pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2283-2289	2.3	23

213	The mechanical properties of nanostructured materials. <i>Jom</i> , 2001 , 53, 31-35	2.1	23
212	Antimicrobial behavior of Cu-bearing Zr-based bulk metallic glasses. <i>Materials Science and Engineering C</i> , 2014 , 39, 325-9	8.3	22
211	Designing Ductile Zr-Based Bulk Metallic Glasses with Phase Separated Microstructure. <i>Advanced Engineering Materials</i> , 2009 , 11, 387-391	3.5	22
210	Nanocrystalline coating enhanced ductility in a Zr-based bulk metallic glass. <i>Journal of Materials Research</i> , 2007 , 22, 508-513	2.5	22
209	Deconvoluting the influences of heat and plastic deformation on internal strains generated by friction stir processing. <i>Applied Physics Letters</i> , 2005 , 86, 231902	3.4	22
208	Indentation Behavior of Zr-Based Metallic-Glass Films via Molecular-Dynamics Simulations. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 3010-3017	7.3	21
207	Phase-field simulation of coherent BCC/B2 microstructures in high entropy alloys. <i>Acta Materialia</i> , 2020 , 197, 10-19	8.4	21
206	Probing deformation mechanisms of gradient nanostructured CrCoNi medium entropy alloy. <i>Journal of Materials Science and Technology</i> , 2020 , 57, 85-91	9.1	20
205	Self-Similar Random Process and Chaotic Behavior In Serrated Flow of High Entropy Alloys. <i>Scientific Reports</i> , 2016 , 6, 29798	4.9	20
204	Phase transformation assisted twinning in a face-centered-cubic FeCrNiCoAl _{0.36} high entropy alloy. <i>Acta Materialia</i> , 2019 , 181, 491-500	8.4	20
203	Scaling behavior and complexity of plastic deformation for a bulk metallic glass at cryogenic temperatures. <i>Physical Review E</i> , 2015 , 92, 012113	2.4	20
202	Tough Hypoeutectic Zr-Based Bulk Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1468-1475	2.3	20
201	Compression-compression fatigue study on model metallic glass nanowires by molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2011 , 110, 023523	2.5	20
200	Low Temperature Deformation Detwinning A Reverse Mode of Twinning. <i>Advanced Engineering Materials</i> , 2010 , 12, 906-911	3.5	20
199	Oxidation Behavior of CuZr-Based Glassy Alloys at 400 °C to 500 °C in Dry Air. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1838-1846	2.3	20
198	The elastic-strain energy criterion of phase formation for complex concentrated alloys. <i>Materialia</i> , 2019 , 5, 100222	3.2	20
197	Effect of Nb content on thermal stability, mechanical and corrosion behaviors of hypoeutectic CoCrFeNiNb high-entropy alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3276-3286	2.5	19
196	High ductility of ultrafine-grained steel via phase transformation. <i>Journal of Materials Research</i> , 2008 , 23, 1578-1586	2.5	19

195	Neutron and X-ray diffraction studies and cohesive interface model of the fatigue crack deformation behavior. <i>Philosophical Magazine Letters</i> , 2008 , 88, 553-565	1	19
194	Fracture-resistant thin-film metallic glass: Ultra-high plasticity at room temperature. <i>APL Materials</i> , 2016 , 4, 116101	5.7	18
193	Graded microstructures of Al-Li-Mg-Zn-Cu entropic alloys under supergravity. <i>Science China Materials</i> , 2019 , 62, 736-744	7.1	18
192	Dislocation avalanche mechanism in slowly compressed high entropy alloy nanopillars. <i>Communications Physics</i> , 2018 , 1,	5.4	18
191	High-temperature materials for structural applications: New perspectives on high-entropy alloys, bulk metallic glasses, and nanomaterials. <i>MRS Bulletin</i> , 2019 , 44, 847-853	3.2	17
190	High Temperature Deformation Mechanism in Hierarchical and Single Precipitate Strengthened Ferritic Alloys by In Situ Neutron Diffraction Studies. <i>Scientific Reports</i> , 2017 , 7, 45965	4.9	17
189	Plastic dynamics of the Al _{0.5} CoCrCuFeNi high entropy alloy at cryogenic temperatures: Jerky flow, stair-like fluctuation, scaling behavior, and non-chaotic state. <i>Applied Physics Letters</i> , 2017 , 111, 251905	3.4	17
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187	Compression-Compression Fatigue and Fracture Behaviors of Zr ₅₀ Al ₁₀ Cu ₃₇ Pd ₃ Bulk-Metallic Glass. <i>Materials Transactions</i> , 2007 , 48, 1828-1833	1.3	17
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22	Effect of Build Height on Temperature Evolution and Thermally Induced Residual Stresses in Plasma Arc Additively Manufactured Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , ¹	2.3	0
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4	Wear Properties of Sc-Bearing Zr-Based Composite BMG with Nano-CuZr ₂ under Lubrication. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4909	2.6	
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