Yong Zhang

List of Publications by Year in Descending Order

346 papers	20,767 citations	66 h-index	137 g-index
369 ext. papers	25,523 ext. citations	4.6 avg, IF	7.44 L-index

#	Paper	IF	Citations
346	Optimize the Mechanical Properties of Al0.6CoCrFeNi High-Entropy Alloys by Thermo-Mechanical Processing. *Metals*, **2022**, 12, 178	2.3	2
345	Recent Progress with BCC-Structured High-Entropy Alloys. *Metals*, **2022**, 12, 501	2.3	5
344	Microstructures and Properties of the Low-Density Al15Zr40Ti28Nb12M(Cr, Mo, Si)5 High-Entropy Alloys. *Metals*, **2022**, 12, 496	2.3	5
343	The phase transition between decagonal quasicrystal and (1/0, 2/1) approximant in Al20Si20Mn20Fe20Ga20 high entropy quasicrystal alloy. *Journal of Alloys and Compounds*, **2022**, 164867	5.7	
342	A Strategic Design Route to Find a Depleted Uranium High-Entropy Alloy with Great Strength. *Metals*, **2022**, 12, 699	2.3	1
341	Microstructures, Mechanical Behavior, and Radiation Damage of (TiVCr)x-(TaW)1-x Binary System High-Entropy Alloy Films. *Metals*, **2022**, 12, 772	2.3	0
340	Exploring the amorphous phase formation and properties of W-Ta-(Cr, Fe, Ni) high-entropy alloy gradient films via a high-throughput technique. *Journal of Alloys and Compounds*, **2022**, 913, 165294	5.7	1
339	Effects of Transient Thermal Shock on the Microstructures and Corrosion Properties of a Reduced Activation High-Entropy Alloy. *Journal of Alloys and Compounds*, **2022**, 165762	5.7	3
338	Ultrastrong and ductile BCC high-entropy alloys with low-density via dislocation regulation and nanoprecipitates. *Journal of Materials Science and Technology*, **2021**, 110, 109-109	9.1	16
337	Dynamic tensile mechanisms and constitutive relationship in CrFeNi medium entropy alloys at room and cryogenic temperatures. *Physical Review Materials*, **2021**, 5,	3.2	3
336	Future Research Directions and Applications for High-Entropy Materials **2021**, 721-763		
335	Predicting temperature-dependent ultimate strengths of body-centered-cubic (BCC) high-entropy alloys. *Npj Computational Materials*, **2021**, 7,	10.9	6
334	Preparation of Bulk TiZrNbMoV and NbTiAlTaV High-Entropy Alloys by Powder Sintering. *Metals*, **2021**, 11, 1748	2.3	7
333	Effect of Zr on phase separation, mechanical and corrosion behavior of heterogeneous CoCrFeNiZrx high-entropy alloy. *Journal of Materials Science and Technology*, **2021**, 109, 76-76	9.1	2
332	Enhanced dynamic mechanical properties and resistance to the formation of adiabatic shear band by Cu-rich nano-precipitates in high-strength steels. *International Journal of Plasticity*, **2021**, 138, 102924	7.6	10
331	Order and Disorder in Amorphous and High-Entropy Materials. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 2111-2122	2.3	5
330	Comparative irradiation response of an austenitic stainless steel with its high-entropy alloy counterpart. *Intermetallics*, **2021**, 132, 107130	3.5	6

329	Successive strain hardening mechanisms induced by transformation induced plasticity in Fe60Mn20Co10Cr10 high entropy alloys. *Journal of Applied Physics*, **2021**, 129, 175101	2.5	7
328	Mechanical behavior of high-entropy alloys. *Progress in Materials Science*, **2021**, 118, 100777	42.2	115
327	Wear and high-temperature oxidation resistances of AlNbTaZrx high-entropy alloys coatings fabricated on Ti6Al4V by laser cladding. *Journal of Alloys and Compounds*, **2021**, 862, 158405	5.7	18
326	Powder metallurgy of high-entropy alloys and related composites: A short review. *International Journal of Minerals, Metallurgy and Materials*, **2021**, 28, 931-943	3.1	1
325	Structure prediction in high-entropy alloys with machine learning. *Applied Physics Letters*, **2021**, 118, 231904	3.4	9
324	Mechanical properties and deformation mechanisms of a Ni2Co1Fe1V0.5Mo0.2 medium-entropy alloy at elevated temperatures. *Acta Materialia*, **2021**, 213, 116982	8.4	7
323	Near-equiatomic high-entropy decagonal quasicrystal in Al20Si20Mn20Fe20Ga20. *Science China Materials*, **2021**, 64, 440-447	7.1	5
322	Mechanical behaviors and precipitation transformation of the lightweight high-Zn-content Al□Zn□Li□Mg□Cu alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 802, 140637	5.3	11
321	Fatigue Behavior of Zr58Cu15.46Ni12.74Al10.34Nb2.76Y0.5 Bulk Metallic Glass Fabricated by Industrial-Grade Zirconium Raw Material. *Metals*, **2021**, 11, 187	2.3	1
320	Effects of Nb on deformation-induced transformation and mechanical properties of HfNbxTa0.2TiZr high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 805, 140798	5.3	5
319	The mechanism for the serrated flow induced by Suzuki segregation in a Ni alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 820, 141575	5.3	1
318	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. *Science*, **2021**, 373, 912-918	33.3	60
317	Dynamic strain ageing induced by Suzuki segregation in a Ni alloy. *Materials Letters*, **2021**, 296, 129879	3.3	0
316	Temperature-dependent mechanical behavior of an Al0.5Cr0.9FeNi2.5V0.2 high-entropy alloy. *Applied Physics Letters*, **2021**, 119, 121902	3.4	3
315	Structural and magnetic transitions of CoFeMnNiAl high-entropy alloys caused by composition and annealing. *Intermetallics*, **2021**, 137, 107298	3.5	1
314	Effect of Fe doping on structural, elastic and electronic properties of B2□rCu phase under hydrostatic pressure: A first-principles study. *Materials Chemistry and Physics*, **2021**, 272, 124978	4.4	
313	Enhanced irradiation tolerance of Fe30Cr25Ni20Co15Mn10 high-entropy alloy via nanotwin boundaries. *Journal of Nuclear Materials*, **2021**, 557, 153292	3.3	1
312	Synergizing mechanical properties and damping capacities in a lightweight Al-Zn-Li-Mg-Cu alloy. *Journal of Alloys and Compounds*, **2021**, 886, 161285	5.7	8

311	Modulation of the cutoff wavelength in the spectra for solar selective absorbing coating based on high-entropy films. *International Journal of Minerals, Metallurgy and Materials*, **2020**, 27, 1371-1378	3.1	1
310	Tensile Properties and Impact Toughness of AlCoxCrFeNi3.1 (x = 0.4, 1) High-Entropy Alloys. *Frontiers in Materials*, **2020**, 7,	4	3
309	Functional properties and promising applications of high entropy alloys. *Scripta Materialia*, **2020**, 187, 188-193	5.6	62
308	Structural disorder, phase stability and compressibility of refractory body-centered cubic solid-solution alloys. *Journal of Alloys and Compounds*, **2020**, 847, 155970	5.7	6
307	Sub-grain formation in Al Mg Zn Cu lightweight entropic alloy by ultrasonic hammering. *Intermetallics*, **2020**, 121, 106780	3.5	5
306	Diffusion Barrier Performance of AlCrTaTiZr/AlCrTaTiZr-N High-Entropy Alloy Films for Cu/Si Connect System. *Entropy*, **2020**, 22,	2.8	14
305	Phase Selection, Lattice Distortions, and Mechanical Properties in High-Entropy Alloys. *Advanced Engineering Materials*, **2020**, 22, 2000466	3.5	19
304	Structural damage and phase stability of Al0.3CoCrFeNi high entropy alloy under high temperature ion irradiation. *Acta Materialia*, **2020**, 188, 1-15	8.4	42
303	Compressive ductility and fracture resistance in CuZr-based shape-memory metallic-glass composites. *International Journal of Plasticity*, **2020**, 128, 102687	7.6	10
302	Temperature effects on damage evolution in ion-irradiated NiCoCr concentrated solid-solution alloy. *Journal of Alloys and Compounds*, **2020**, 832, 154918	5.7	1
301	Preternatural Hexagonal High-Entropy Alloys: A Review. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 1033-1045	2.5	12
300	A Useful Review of High Entropy Films **2020**, 703-721		0
299	High Entropy Alloy Fibers Having High Tensile Strength and Ductility **2020**, 689-702		
298	Microstructure and Cracking Noise in High Entropy Alloys **2020**, 355-380		
297	A new method for preparing high entropy alloys: Electromagnetic pulse treatment and its effects on mechanical and corrosion properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 774, 138916	5.3	3
296	A body-centered cubic Zr50Ti35Nb15 medium-entropy alloy with unique properties. *Scripta Materialia*, **2020**, 178, 329-333	5.6	33
295	Effects of Cu and Zn on microstructures and mechanical behavior of the medium-entropy aluminum alloy. *Journal of Alloys and Compounds*, **2020**, 820, 153092	5.7	25
294	Applications of High Diffusion Resistance Multi-component AlCrTaTiZrRu/(AlCrTaTiZrRu)N0.7 Film in Cu Interconnects. *Advanced Engineering Materials*, **2020**, 22, 2000557	3.5	5

293	High-Throughput Calculations for High-Entropy Alloys: A Brief Review. *Frontiers in Materials*, **2020**, 7,	4	15
292	Phase thermal stability and mechanical properties analyses of (Cr,Fe,V)-(Ta,W) multiple-based elemental system using a compositional gradient film. *International Journal of Minerals, Metallurgy and Materials*, **2020**, 27, 1379-1387	3.1	11
291	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. *Materials Today*, **2020**, 41, 62-71	21.8	61
290	Editorial for special issue on nanostructured high-entropy materials. *International Journal of Minerals, Metallurgy and Materials*, **2020**, 27, 1309-1311	3.1	4
289	Molecular Dynamics Simulation on Creep Behavior of Nanocrystalline TiAl Alloy. *Nanomaterials*, **2020**, 10,	5.4	7
288	Natural-mixing guided design of refractory high-entropy alloys with as-cast tensile ductility. *Nature Materials*, **2020**, 19, 1175-1181	27	62
287	Simultaneous enhancement of strength and ductility in a NiCoCrFe high-entropy alloy upon dynamic tension: Micromechanism and constitutive modeling. *International Journal of Plasticity*, **2020**, 124, 226-246	7.6	69
286	Fatigue Behavior of A Minor Yttrium Doped ZrCuNi-Based Metallic Glass Alloy Fabricated by Industrial Grade Raw Material. *MRS Advances*, **2020**, 5, 1713-1721	0.7	1
285	Entropic Alloys for Cryogenic Applications **2019**,		2
284	Wide-temperature-range perfect superelasticity and giant elastocaloric effect in a high entropy alloy. *Materials Research Letters*, **2019**, 7, 482-489	7.4	26
283	Strain-magnetization effect in superelastic Ni-Mn-Ga microfiber. *Scripta Materialia*, **2019**, 162, 397-401	5.6	4
282	High-Entropy Materials **2019**,		49
281	Mechanical Properties and Corrosion Resistance of NbTiAlSiZrN High-Entropy Films Prepared by RF Magnetron Sputtering. *Entropy*, **2019**, 21,	2.8	19
280	History of High-Entropy Materials **2019**, 1-33		6
279	Preparation Methods of High-Entropy Materials **2019**, 65-75		0
278	Application and Future Directions of High-Entropy Materials **2019**, 129-152		1
277	Materials Design of High-Entropy Materials **2019**, 35-63		0
276	Mechanical Behavior **2019**, 77-89		1

275	Physical and Chemical Properties **2019**, 91-113		0
274	Irradiation Behavior in Entropic Materials **2019**, 115-128		1
273	Ultrafine-grained dual phase Al0.45CoCrFeNi high-entropy alloys. *Materials and Design*, **2019**, 180, 107918	8.1	40
272	High-throughput screening for biomedical applications in a Ti-Zr-Nb alloy system through masking co-sputtering. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	17
271	Phase transformations of Al-bearing high-entropy alloys AlxCoCrFeNi (x = 0, 0.1, 0.3, 0.75, 1.5) at high pressure. *Applied Physics Letters*, **2019**, 114, 091902	3.4	9
270	Microstructure and Corrosion Behavior of (CoCrFeNi)Nb□High-Entropy Alloy Coating Fabricated by Plasma Spraying. *Materials*, **2019**, 12,	3.5	45
269	Investigations of new bulk metallic glass alloys fabricated using a high-pressure die-casting method based on industrial grade Zr raw material. *Journal of Alloys and Compounds*, **2019**, 792, 851-859	5.7	9
268	Compositional Design of Soft Magnetic High Entropy Alloys by Minimizing Magnetostriction Coefficient in (Fe0.3Co0.5Ni0.2)100□(Al1/3Si2/3)x System. *Metals*, **2019**, 9, 382	2.3	17
267	Two-way shape memory effect and magnetic-field-induced twin boundary motion in Ni-Mn-Ga microwire. *Materials Letters*, **2019**, 243, 173-175	3.3	4
266	Influence of precipitation on phase transformation and mechanical properties of Ni-rich NiTiNb alloys. *Materials Characterization*, **2019**, 154, 148-160	3.9	12
265	Effects of Si Addition on Microstructure, Properties and Serration Behaviors of Lightweight Al-Mg-Zn-Cu Medium-entropy Alloys **2019**, 1,		2
264	Annealing effect for the Al0.3CoCrFeNi high-entropy alloy fibers. *Journal of Alloys and Compounds*, **2019**, 778, 23-29	5.7	17
263	Graded microstructures of Al-Li-Mg-Zn-Cu entropic alloys under supergravity. *Science China Materials*, **2019**, 62, 736-744	7.1	18
262	Superlattice in austenitic Ni-Mn-Ga shape memory microwires. *Journal of Alloys and Compounds*, **2019**, 777, 174-179	5.7	5
261	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. *Science China Materials*, **2019**, 62, 853-863	7.1	70
260	Cryogenic-deformation-induced phase transformation in an FeCoCrNi high-entropy alloy. *Materials Research Letters*, **2018**, 6, 236-243	7.4	115
259	He behavior in Ni and Ni-based equiatomic solid solution alloy. *Journal of Nuclear Materials*, **2018**, 505, 200-206	3.3	21
258	The effects of phase transformation on the microstructure and mechanical behavior of FeNiMnCr.75Alx high-entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 725, 138-147	5.3	10

257	Science and technology in high-entropy alloys. *Science China Materials*, **2018**, 61, 2-22	7.1	404
256	Delayed damage accumulation by athermal suppression of defect production in concentrated solid solution alloys. *Materials Research Letters*, **2018**, 6, 136-141	7.4	31
255	Effects of Ni-P amorphous films on mechanical and corrosion properties of Al0.3CoCrFeNi high-entropy alloys. *Intermetallics*, **2018**, 94, 65-72	3.5	18
254	Mechanical response and deformation behavior of Al0.6CoCrFeNi high-entropy alloys upon dynamic loading. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 727, 208-213	5.3	48
253	Amorphous phase stability of NbTiAlSiN X high-entropy films. *Rare Metals*, **2018**, 37, 682-689	5.5	23
252	Abnormal temperature dependence of impact toughness in Al CoCrFeNi system high entropy alloys. *Materials Chemistry and Physics*, **2018**, 210, 213-221	4.4	31
251	Effects of temperature on the irradiation responses of Al0.1CoCrFeNi high entropy alloy. *Scripta Materialia*, **2018**, 144, 31-35	5.6	71
250	Temperature effects on the serrated behavior of an Al0.5CoCrCuFeNi high-entropy alloy. *Materials Chemistry and Physics*, **2018**, 210, 20-28	4.4	45
249	Superelasticity and acoustic emission of Ni46Mn28Ga20Co3Cu3 microwire. *Journal Physics D: Applied Physics*, **2018**, 51, 305502	3	1
248	Deformation mechanisms of Al0.1CoCrFeNi high entropy alloy at ambient and cryogenic temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 733, 408-413	5.3	25
247	Exploring radiation induced segregation mechanisms at grain boundaries in equiatomic CoCrFeNiMn high entropy alloy under heavy ion irradiation. *Scripta Materialia*, **2018**, 156, 80-84	5.6	33
246	A comparison study of local lattice distortion in Ni80Pd20 binary alloy and FeCoNiCrPd high-entropy alloy. *Scripta Materialia*, **2018**, 156, 14-18	5.6	28
245	Compositional gradient films constructed by sputtering in a multicomponent Ti-Al-(Cr, Fe, Ni) system. *Journal of Materials Research*, **2018**, 33, 3330-3338	2.5	26
244	Novel high entropy alloys of FexCo1-xNiMnGa with excellent soft magnetic properties. *Intermetallics*, **2018**, 100, 1-8	3.5	38
243	A brief review of high-entropy films. *Materials Chemistry and Physics*, **2018**, 210, 12-19	4.4	88
242	Mechanical properties and thermal stability of (NbTiAlSiZr)Nx high-entropy ceramic films at high temperatures. *Journal of Materials Research*, **2018**, 33, 3347-3354	2.5	19
241	Phase stability of single phase Al0.12CrNiFeCo high entropy alloy upon irradiation. *Materials and Design*, **2018**, 160, 1208-1216	8.1	30
240	Rare-earth high entropy alloys with hexagonal close-packed structure. *Journal of Applied Physics*, **2018**, 124, 195101	2.5	36

239	Effects of Nitrogen Content on the Structure and Mechanical Properties of (AlCrFeNiTi)N High-Entropy Films by Reactive Sputtering. *Entropy*, **2018**, 20,	2.8	40
238	A Novel Low-Activation VCrFeTaW (= 0.1, 0.2, 0.3, 0.4, and 1) High-Entropy Alloys with Excellent Heat-Softening Resistance. *Entropy*, **2018**, 20,	2.8	29
237	Sensitive Five-Fold Local Symmetry to Kinetic Energy of Depositing Atoms in Cu-Zr Thin Film Growth. *Materials*, **2018**, 11,	3.5	10
236	High-entropy functional materials. *Journal of Materials Research*, **2018**, 33, 3138-3155	2.5	114
235	High-Throughput Screening Solar-Thermal Conversion Films in a Pseudobinary (Cr, Fe, V)-(Ta, W) System. *ACS Combinatorial Science*, **2018**, 20, 602-610	3.9	18
234	A Low-Cost Lightweight Entropic Alloy with High Strength. *Journal of Materials Engineering and Performance*, **2018**, 27, 6648-6656	1.6	15
233	Nonlinear Oxidation Behavior in Pure Ni and Ni-Containing Entropic Alloys. *Frontiers in Materials*, **2018**, 5,	4	6
232	Local lattice distortion in NiCoCr, FeCoNiCr and FeCoNiCrMn concentrated alloys investigated by synchrotron X-ray diffraction. *Materials and Design*, **2018**, 155, 1-7	8.1	50
231	Evolution of local lattice distortion under irradiation in medium- and high-entropy alloys. *Materialia*, **2018**, 2, 73-81	3.2	46
230	Fracture Morphology and Local Deformation Characteristics in the Metallic Glass Matrix Composite Under Tension. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 1545-1550	2.3	1
229	Magnetic-field-induced twist in Ni-Mn-Ga-Co-Cu microwires. *Scripta Materialia*, **2017**, 128, 91-94	5.6	7
228	Tailoring magnetic behavior of CoFeMnNiX (X⊞ Al, Cr, Ga, and Sn) high entropy alloys by metal doping. *Acta Materialia*, **2017**, 130, 10-18	8.4	143
227	Amorphous phase formation rules in high-entropy alloys. *Chinese Physics B*, **2017**, 26, 018104	1.2	19
226	Non-linear behavior in advanced materials. *Journal of Iron and Steel Research International*, **2017**, 24, 357-357	1.2	
225	Big-data analysis of phase-formation rules in high-entropy alloys. *Journal of Iron and Steel Research International*, **2017**, 24, 358-365	1.2	2
224	Optical simulation and preparation of novel Mo/ZrSiN/ZrSiON/SiO 2 solar selective absorbing coating. *Solar Energy Materials and Solar Cells*, **2017**, 167, 178-183	6.4	45
223	Radiation damage buildup by athermal defect reactions in nickel and concentrated nickel alloys. *Materials Research Letters*, **2017**, 5, 433-439	7.4	21
222	Mass production of magnetocaloric LaFeMnSiB alloys with hydrogenation. *Journal of Iron and Steel Research International*, **2017**, 24, 462-468	1.2	2

221	Ni-Mn-Ga microwire twist caused by stress-magnetic coupling. *Materials and Design*, **2017**, 130, 521-527	8.1	5
220	14% recoverable strain in Ni52.87Mn23.82Ga23.32 microwires. *Journal Physics D: Applied Physics*, **2017**, 50, 095303	3	8
219	MnFeNiCuPt and MnFeNiCuCo high-entropy alloys designed based on L1 0 structure in Pettifor map for binary compounds. *Intermetallics*, **2017**, 82, 107-115	3.5	20
218	Strengthening in Al0.25CoCrFeNi high-entropy alloys by cold rolling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 593-601	5.3	64
217	Synthesis of AlxCoCrFeNi high-entropy alloys by high-gravity combustion from oxides. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 668-673	5.3	41
216	Formation of a hexagonal closed-packed phase in Al0.5CoCrFeNi high entropy alloy. *MRS Communications*, **2017**, 7, 879-884	2.7	13
215	Shape Memory and Huge Superelasticity in Ni□Mn□Ga Glass-Coated Fibers. *Coatings*, **2017**, 7, 5	2.9	2
214	Multistep superelasticity of Ni-Mn-Ga and Ni-Mn-Ga-Co-Cu microwires under stress-temperature coupling. *Acta Materialia*, **2017**, 140, 326-336	8.4	20
213	Nanocrystals generated under tensile stress in metallic glasses with phase selectivity. *Nanoscale*, **2017**, 9, 15542-15549	7.7	3
212	Low-hysteresis tensile superelasticity in a Ni-Co-Mn-Sn magnetic shape memory microwire. *Journal of Alloys and Compounds*, **2017**, 728, 655-658	5.7	15
211	Serration and noise behaviors in materials. *Progress in Materials Science*, **2017**, 90, 358-460	42.2	128
210	High-entropy Al0.3CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. *Acta Materialia*, **2017**, 123, 285-294	8.4	262
209	Tuning of reflectance transition position of Al-AlN cermet solar selective absorbing coating by simulating. *Infrared Physics and Technology*, **2017**, 80, 65-70	2.7	8
208	The Al Effects of Co-Free and V-Containing High-Entropy Alloys. *Metals*, **2017**, 7, 18	2.3	10
207	Weibull Statistical Reliability Analysis of Mechanical and Magnetic Properties of FeCuNbxSiB Amorphous Fibers. *Metals*, **2017**, 7, 76	2.3	1
206	Entropy and glass formation. *Wuli Xuebao/Acta Physica Sinica*, **2017**, 66, 177101	0.6	3
205	Phase stability and microstructures of high entropy alloys ion irradiated to high doses. *Journal of Nuclear Materials*, **2016**, 480, 100-108	3.3	73
204	NbTaV-(Ti,W) refractory high-entropy alloys: Experiments and modeling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 674, 203-211	5.3	134

203	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. *Physical Review Letters*, **2016**, 116, 135504	7.4	250
202	Precipitation behavior of AlxCoCrFeNi high entropy alloys under ion irradiation. *Scientific Reports*, **2016**, 6, 32146	4.9	54
201	Serration Behavior in Zr-Cu-Al Glass-forming Systems. *Journal of Iron and Steel Research International*, **2016**, 23, 42-47	1.2	11
200	Investigation on low thermal emittance of Al films deposited by magnetron sputtering. *Infrared Physics and Technology*, **2016**, 75, 133-138	2.7	9
199	Enhancement of mechanical and electrochemical properties of Al0.25CrCoFe1.25Ni1.25 high-entropy alloys by coating NiP amorphous films. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 657, 353-358	5.3	16
198	A Brief Review of High Entropy Alloys and Serration Behavior and Flow Units. *Journal of Iron and Steel Research International*, **2016**, 23, 2-6	1.2	40
197	The ultrahigh charpy impact toughness of forged AlxCoCrFeNi high entropy alloys at room and cryogenic temperatures. *Intermetallics*, **2016**, 70, 24-28	3.5	157
196	A hexagonal close-packed high-entropy alloy: The effect of entropy. *Materials and Design*, **2016**, 96, 10-18	8.1	229
195	Effects of Sn element on microstructure and properties of SnxAl2.5FeCoNiCu multi-component alloys. *Journal of Alloys and Compounds*, **2016**, 654, 327-332	5.7	13
194	Molecular dynamics simulation of AlCoCrCuFeNi high entropy alloy thin film growth. *Intermetallics*, **2016**, 68, 78-86	3.5	49
193	Strain rate effects on the dynamic mechanical properties of the AlCrCuFeNi2 high-entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 649, 35-38	5.3	48
192	Design of Light-Weight High-Entropy Alloys. *Entropy*, **2016**, 18, 333	2.8	105
191	Nano-Crystallization of High-Entropy Amorphous NbTiAlSiWxNy Films Prepared by Magnetron Sputtering. *Entropy*, **2016**, 18, 226	2.8	49
190	Tailoring the physical properties of Ni-based single-phase equiatomic alloys by modifying the chemical complexity. *Scientific Reports*, **2016**, 6, 20159	4.9	124
189	Temperature measurements during high flux ion beam irradiations. *Review of Scientific Instruments*, **2016**, 87, 024902	1.7	43
188	G-mode magnetic force microscopy: Separating magnetic and electrostatic interactions using big data analytics. *Applied Physics Letters*, **2016**, 108, 193103	3.4	21
187	Serration and Noise Behavior in Advanced Materials. *Journal of Iron and Steel Research International*, **2016**, 23, 1-1	1.2	8
186	Ion irradiation induced defect evolution in Ni and Ni-based FCC equiatomic binary alloys. *Journal of Nuclear Materials*, **2016**, 471, 193-199	3.3	41

185	Superior Mechanical Properties of AlCoCrFeNiTi x High-Entropy Alloys upon Dynamic Loading. *Journal of Materials Engineering and Performance*, **2016**, 25, 451-456	1.6	14
184	Effects of compositional complexity on the ion-irradiation induced swelling and hardening in Ni-containing equiatomic alloys. *Scripta Materialia*, **2016**, 119, 65-70	5.6	156
183	Phase Formation Rules **2016**, 21-49		10
182	Fabrication Routes **2016**, 151-179		2
181	Functional Properties **2016**, 237-265		2
180	Effect of Strain Rate on Deformation Behavior of AlCoCrFeNi High-Entropy Alloy by Nanoindentation. *Journal of Materials Engineering and Performance*, **2016**, 25, 2255-2260	1.6	15
179	Superelasticity of CuNiAl shape-memory fibers prepared by melt extraction technique. *International Journal of Minerals, Metallurgy and Materials*, **2016**, 23, 928-933	3.1	10
178	Quasi-static and dynamic compression behaviors of metallic glass matrix composites. *Intermetallics*, **2015**, 60, 66-71	3.5	13
177	Direct evidence for stress-induced transformation between coexisting multiple martensites in a NiMnGa multifunctional alloy. *Journal Physics D: Applied Physics*, **2015**, 48, 265304	3	10
176	Senary refractory high entropy alloy MoNbTaTiVW. *Materials Science and Technology*, **2015**, 31, 1207-1213	1.5	54
175	Microstructural features and tensile behaviors of the Al0.5CrCuFeNi2 high-entropy alloys by cold rolling and subsequent annealing. *Materials and Design*, **2015**, 88, 1057-1062	8.1	57
174	Irradiation Resistance in Al x CoCrFeNi High Entropy Alloys. *Jom*, **2015**, 67, 2340-2344	2.1	126
173	Irradiation Behavior in High Entropy Alloys. *Journal of Iron and Steel Research International*, **2015**, 22, 879-884	1.2	82
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