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## High-Entropy Alloys A New Era of Exploitation

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#	Paper	IF	Citations
417	Effects of Mn, Ti and V on the microstructure and properties of AlCrFeCoNiCu high entropy alloy. <b>2008</b> , 498, 482-486		175
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415	Microstructure, thermophysical and electrical properties in Al <sub>x</sub> CoCrFeNi (0 ≤ x ≤ 2) high-entropy alloys. <b>2009</b> , 163, 184-189		393
414	Mechanical properties of multicomponent titanium alloy. <b>2010</b> , 42, 622-630		8
413	Microstructure and room temperature properties of a high-entropy TaNbHfZrTi alloy. <b>2011</b> , 509, 6043-6048		814
412	Mechanical properties of Nb <sub>25</sub> Mo <sub>25</sub> Ta <sub>25</sub> W <sub>25</sub> and V <sub>20</sub> Nb <sub>20</sub> Mo <sub>20</sub> Ta <sub>20</sub> W <sub>20</sub> refractory high entropy alloys. <b>2011</b> , 19, 698-706		1349
411	Microstructure and properties of a refractory NbCrMo <sub>0.5</sub> Ta <sub>0.5</sub> TiZr alloy. <b>2011</b> , 529, 311-320		249
410	Improving the wear resistance of white cast iron using a new concept High-entropy microstructure. <b>2011</b> , 271, 1623-1628		55
409	Phase composition and properties of wear resistant Ti-Al-Cr-Zr-Nb-N coatings manufactured by the arc-physical deposition method. <b>2011</b> , 2, 261-267		7
408	Microstructure and wear behavior of Al <sub>x</sub> Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti <sub>y</sub> high-entropy alloys. <b>2011</b> , 59, 6308-6317		786
407	Effect of decomposition of the Cr-Fe-Co rich phase of AlCoCrCuFeNi high entropy alloy on magnetic properties. <b>2011</b> , 111, 619-22		104
406	Thermodynamic Rationalization of the Microstructures of CrFeNi & CuCrFeNi Alloys. <b>2012</b> , 585, 3-7		7
405	Computational Thermodynamics Aided High-Entropy Alloy Design. <b>2012</b> , 64, 839-845		203
404	Modeling of high entropy alloys of refractory elements. <b>2012</b> , 407, 3285-3287		22
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402	Determination of the transition to the high entropy regime for alloys of refractory elements. <b>2012</b> , 534, 25-31		31
401	Superplasticity of AlCoCrCuFeNi High Entropy Alloy. <i>Materials Science Forum</i> , <b>2012</b> , 735, 146-151	0.4	37

400	Oxidation behavior of a refractory NbCrMo <sub>0.5</sub> Ta <sub>0.5</sub> TiZr alloy. <b>2012</b> , 47, 6522-6534	151
399	Tensile properties of an AlCrCuNiFeCo high-entropy alloy in as-cast and wrought conditions. <b>2012</b> , 533, 107-118	216
398	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy. <b>2012</b> , 47, 4062-4074	414
397	Microstructure features of high-entropy equiatomic cast AlCrFeCoNiCu alloys. <b>2013</b> , 114, 514-520	17
396	Specific features of cast high-entropy AlCrFeCoNiCu alloys produced by ultrarapid quenching from the melt. <b>2013</b> , 114, 503-513	17
395	Processing effects on the magnetic and mechanical properties of FeCoNiAl <sub>0.2</sub> Si <sub>0.2</sub> high entropy alloy. <b>2013</b> , 20, 549-555	55
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389	Alloy Design Strategies and Future Trends in High-Entropy Alloys. <b>2013</b> , 65, 1759-1771	590
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387	Sunflower-like Solidification Microstructure in a Near-eutectic High-entropy Alloy. <b>2013</b> , 1, 228-232	44
386	The effect of the deposition parameters of nitrides of high-entropy alloys (TiZrHfVNb) <sub>N</sub> on their structure, composition, mechanical and tribological properties. <b>2013</b> , 35, 356-368	22
385	Microstructure and Tensile Behavior of Al <sub>8</sub> Co <sub>17</sub> Cr <sub>17</sub> Cu <sub>8</sub> Fe <sub>17</sub> Ni <sub>33</sub> (at.%) High-Entropy Alloy. <b>2013</b> , 65, 1805-1814	43
384	Local Atomic Structure of a High-Entropy Alloy: An X-Ray and Neutron Scattering Study. <b>2013</b> , 44, 1994-1997	121
383	Tribological properties of AlCoCrFeNiCu high-entropy alloy in hydrogen peroxide solution and in oil lubricant. <b>2013</b> , 297, 1045-1051	35

382	Incipient plasticity and dislocation nucleation of FeCoCrNiMn high-entropy alloy. <b>2013</b> , 61, 2993-3001	213
381	Mechanical properties of low-density, refractory multi-principal element alloys of the CrNbTiVZr system. <b>2013</b> , 565, 51-62	299
380	Low-density, refractory multi-principal element alloys of the CrNbTiVZr system: Microstructure and phase analysis. <b>2013</b> , 61, 1545-1557	356
379	Ab initio investigation of high-entropy alloys of 3d elements. <b>2013</b> , 87,	115
378	Atomic-scale compositional characterization of a nanocrystalline AlCrCuFeNiZn high-entropy alloy using atom probe tomography. <b>2013</b> , 61, 4696-4706	112
377	Tensile properties of high- and medium-entropy alloys. <b>2013</b> , 39, 74-78	648
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375	Microstructure and tensile properties of FeMnNiCuCoSnx high entropy alloys. <b>2013</b> , 44, 223-227	46
374	Melt separation phenomena in CoNiCuAlCr high entropy alloy containing silver. <b>2013</b> , 560, 633-642	32
373	Structure and Properties of Nanostructured (Ti-Hf-Zr-V-Nb)N Coatings. <b>2013</b> , 2013, 1-12	39
372	Phase Composition of a CrMo0.5NbTa0.5TiZr High Entropy Alloy: Comparison of Experimental and Simulated Data. <b>2013</b> , 15, 3796-3809	48
371	High Mixing Entropy Alloys Design with High Anticorrosion and Wear-Resistance Properties. <b>2013</b> , 815, 19-24	2
370	Research on Electromagnetic Properties of High Entropy Alloys. <b>2013</b> , 837, 277-282	1
369	Microstructure and Properties of Aluminum-Containing Refractory High-Entropy Alloys. <b>2014</b> , 66, 2030-2042	206
368	Equal-Channel Angular Extrusion of a Low-Density High-Entropy Alloy Produced by High-Energy Cryogenic Mechanical Alloying. <b>2014</b> , 66, 2021-2029	37
367	Structure and Properties of Refractory High-Entropy Alloys. <b>2014</b> , 1093-1097	1
366	Microstructure and Mechanical Properties of FeNiCrCuAl High Entropy Alloys. <b>2014</b> , 1036, 101-105	
365	Investigation on relationship between intermediate temperature embrittlement and intergranular precipitation in AlCoCrCuFeNi alloy. <b>2014</b> , 27, 199-201	2

364	Laser cladding of high-entropy alloy on H13 steel. <b>2014</b> , 33, 727-730	26
363	In-situ neutron diffraction study of deformation behavior of a multi-component high-entropy alloy. <b>2014</b> , 104, 051910	107
362	Mechanochemical synthesis and heating-induced transformations of a high-entropy Cr-Fe-Co-Ni-Al-Ti alloy. <b>2014</b> , 50, 1202-1211	14
361	Thermally stable laser clad CoCrCuFeNi high-entropy alloy coating with low stacking fault energy. <b>2014</b> , 600, 210-214	87
360	High-entropy equiatomic AlCrFeCoNiCu alloy: Hypotheses and experimental data. <b>2014</b> , 59, 211-223	16
359	Nano-scale multilayered-composite coatings for the cutting tools. <b>2014</b> , 72, 303-317	76
358	Phase stability and tensile properties of Co-free Al <sub>0.5</sub> CrCuFeNi <sub>2</sub> high-entropy alloys. <b>2014</b> , 584, 530-537	85
357	Irradiation Resistance of Multicomponent Alloys. <b>2014</b> , 45, 180-183	112
356	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. <b>2014</b> , 62, 105-113	687
355	Size-dependent plasticity in an Nb <sub>25</sub> Mo <sub>25</sub> Ta <sub>25</sub> W <sub>25</sub> refractory high-entropy alloy. <b>2014</b> , 65, 85-97	288
354	On the formation of disordered solid solutions in multi-component alloys. <b>2014</b> , 587, 113-119	116
353	Influence of Ti addition and sintering method on microstructure and mechanical behavior of a medium-entropy Al <sub>0.6</sub> CoNiFe alloy. <b>2014</b> , 619, 137-145	57
352	Experimental and theoretical study of Ti <sub>20</sub> Zr <sub>20</sub> Hf <sub>20</sub> Nb <sub>20</sub> X <sub>20</sub> (X=V or Cr) refractory high-entropy alloys. <b>2014</b> , 47, 131-138	157
351	Effect of aluminum on the microstructure and properties of two refractory high-entropy alloys. <b>2014</b> , 68, 214-228	397
350	References. <b>2014</b> , 171-190	
349	Microstructural and magnetic behavior of an equiatomic NiCoAlFe alloy prepared by mechanical alloying. <b>2014</b> , 615, S317-S323	10
348	The microstructure and properties of (FeCrNiCo)Al Cu high-entropy alloys and their TiC-reinforced composites. <b>2014</b> , 598, 244-250	65
347	From High-Entropy Alloys to High-Entropy Steels. <b>2015</b> , 86, 1127-1138	114

346	Predicting the solid solubility limit in high-entropy alloys using the molecular orbital approach. <b>2015</b> , 118, 194902	13
345	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy, and High-Entropy Alloys. <b>2015</b> , 5, 16997	81
344	Specific Features of the Phase Composition and Structure of a High-Strength Multi-Component FeWMoCrVSiMnC Steel Synthesized via Laser Remelting. <b>2015</b> , 17, 1504-1510	3
343	Microwave-Assisted Preparation of High Entropy Alloys. <b>2015</b> , 3, 182-197	23
342	HAADF-STEM and Super-XEDS Tomography of Complex Nano-scale Precipitates in a High Entropy Alloy, AlMo0.5NbTa0.5TiZr. <b>2015</b> , 21, 2339-2340	
341	Comparative study of the microstructures and mechanical properties of direct laser fabricated and arc-melted Al x CoCrFeNi high entropy alloys. <b>2015</b> , 633, 184-193	189
340	Features of phase and structure formation in high-entropy alloys of the AlCrFeCoNiCu x system (x = 0, 0.5, 1.0, 2.0, 3.0). <b>2015</b> , 116, 467-474	8
339	Effect of entropy-packing fraction relation on the formation of complex metallic materials. <b>2015</b> , 2, 096501	2
338	Radiation Resistance of high-entropy nanostructured (Ti, Hf, Zr, V, Nb)N coatings. <b>2015</b> , 60, 1519-1524	13
337	Synthesis and characterization of FeCoCrAlCu high-entropy alloy coating by laser surface alloying. <b>2015</b> , 262, 64-69	84
336	Phase selection rules for cast high entropy alloys: an overview. <b>2015</b> , 31, 1223-1230	137
335	Peculiar features of physical properties of the rapid quenched AlCrFeCoNiCu high-entropy alloy. <b>2015</b> , 636, 304-309	16
334	High-Temperature Oxidation Behavior of Al-Co-Cr-Ni-(Fe or Si) Multicomponent High-Entropy Alloys. <b>2015</b> , 67, 246-259	97
333	High-Temperature Deformation Processing Map Approach for Obtaining the Desired Microstructure in a Multi-component (Ni-Ti-Cu-Fe) Alloy. <b>2015</b> , 46, 2201-2215	8
332	Peculiarities of the phase composition and structure of the high-entropy FeWMoCrVSiMnC multicomponent steel. <b>2015</b> , 60, 1088-1092	2
331	Relative crystal stability of AlxFeNiCrCo high entropy alloys from XRD analysis and formation energy calculation. <b>2015</b> , 648, 307-312	28
330	High-Temperature Tensile Strength of Al10Co25Cr8Fe15Ni36Ti6 Compositionally Complex Alloy (High-Entropy Alloy). <b>2015</b> , 67, 2271-2277	87
329	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys. <b>2015</b> , 83, 651-660	130

328	Influence of the Structure and Elemental Composition on the Physical and Mechanical Properties of (TiZrHfVNb)N Nanostructured Coatings. <b>2015</b> , 173-183	
327	Prediction and validation of quaternary high entropy alloys using statistical approaches. <b>2015</b> , 31, 1201-1206	24
326	Simultaneous effect of mechanical alloying and arc-melting processes in the microstructure and hardness of an AlCoFeMoNiTi high-entropy alloy. <b>2015</b> , 643, S250-S255	30
325	High entropy alloys: EMI-impossible regular solid solutions?. <b>2015</b> , 31, 1231-1234	20
324	Structure and properties of a laminated composite material made of high-entropy alloy with carbide and intermetallic hardening. <b>2015</b> , 79, 1122-1129	3
323	Microstructural investigation of plastically deformed Ti <sub>20</sub> Zr <sub>20</sub> Hf <sub>20</sub> Nb <sub>20</sub> Ta <sub>20</sub> high entropy alloy by X-ray diffraction and transmission electron microscopy. <b>2015</b> , 108, 1-7	67
322	Influence of residual pressure and ion implantation on the structure, elemental composition, and properties of (TiZrAlYNb)N nitrides. <b>2015</b> , 60, 1176-1183	17
321	Structure and physical properties of the high-entropy AlCrFeCoNiCu alloy rapidly quenched from the melt. <b>2015</b> , 57, 1616-1626	5
320	Friction of high-entropy Fe <sub>25</sub> Cr <sub>20</sub> Ni <sub>20</sub> Mn <sub>15</sub> Co <sub>10</sub> Al <sub>10</sub> alloy for 65G steel. <b>2015</b> , 36, 342-345	
319	Effect of iron content on the structure and mechanical properties of Al <sub>25</sub> Ti <sub>25</sub> Ni <sub>25</sub> Cu <sub>25</sub> and (AlTi) <sub>60-x</sub> Ni <sub>20</sub> Cu <sub>20</sub> Fe <sub>x</sub> (x=15, 20) high-entropy alloys. <b>2015</b> , 358, 549-555	27
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315	Nanoindentation creep behavior in a CoCrFeCuNi high-entropy alloy film with two different structure states. <b>2015</b> , 621, 111-117	91
314	Positron annihilation studies on FeCrCoNi high entropy alloy. <b>2015</b> , 620, 277-282	19
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309	The effect of steel substrate pre-hardening on structural, mechanical, and tribological properties of magnetron sputtered TiN and TiAlN coatings. <b>2016</b> , 352-353, 92-101	41
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304	Microwaves: Microwave-Assisted Hydrothermal Synthesis of Nanoparticles. <b>2016</b> , 588-599	1
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302	Synthesis and characterization of AlCoCrCuFeZnx high-entropy alloy by mechanical alloying. <b>2016</b> , 26, 380-384	28
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300	Structural Features and Solid-Solution Hardening of High-Entropy CrMnFeCoNi Alloy. <b>2016</b> , 55, 225-235	6
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298	Secondary Ion Emission of High-Entropy Cr <sub>14.3</sub> Mn <sub>14.3</sub> Fe <sub>14.3</sub> Ni <sub>28.6</sub> Co <sub>14.3</sub> Cu <sub>14.3</sub> Alloy. <b>2016</b> , 55, 458-463	4
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282	Big-data analysis of phase-formation rules in high-entropy alloys. <b>2017</b> , 24, 358-365		2
281	High-entropy alloy CoCrFeMnNi produced by powder metallurgy. <b>2017</b> , 60, 184-197		47
280	Processing of AlCoCrFeNiTi high entropy alloy by atmospheric plasma spraying. <b>2017</b> , 181, 012015		18
279	Combinatorial exploration of the High Entropy Alloy System Co-Cr-Fe-Mn-Ni. <b>2017</b> , 325, 174-180		30
278	Prediction of structure and elastic properties of AlCrFeNiTi system high entropy alloys. <b>2017</b> , 86, 134-146		36
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275	Elastic and thermal properties of refractory high-entropy alloys from first-principles calculations. <b>2017</b> , 128, 185-190		35

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273	The potential for achieving superplasticity in high-entropy alloys processed by severe plastic deformation. <b>2017</b> , 194, 012040	4
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269	Wear Resistance of High-Entropy Alloys. <b>2017</b> , 56, 158-164	6
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267	A critical review of high entropy alloys and related concepts. <b>2017</b> , 122, 448-511	3114
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253	Microstructure and wear resistance of an intermetallic-based Al <sub>0.25</sub> Ti <sub>0.75</sub> CoCrFeNi high entropy alloy. <b>2018</b> , 210, 197-206	34
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251	Effect of alloying on the thermal-elastic properties of 3d high-entropy alloys. <b>2018</b> , 210, 320-326	27
250	Deformation twinning structure and interface in a FCC-based Al 0.3 FeNiCo 1.2 CrCu high-entropy alloy matrix composites. <b>2018</b> , 214, 50-52	5
249	Ultra-high strength WNbMoTaV high-entropy alloys with fine grain structure fabricated by powder metallurgical process. <b>2018</b> , 712, 616-624	113
248	Comparative study on sintering kinetics of as-milled and annealed CoCrFeNi high entropy alloy powders. <b>2018</b> , 210, 49-56	10
247	Effect of microalloying with silicon on high temperature oxidation resistance of novel refractory high-entropy alloy Ta-Mo-Cr-Ti-Al. <b>2018</b> , 35, 168-176	39
246	Structure feature of ternary state diagrams of Cr-Ti-V and Cr-Mn-V systems. <b>2018</b> , 243, 00014	1
245	Tribological Characteristics of (TiZrNbTaHf)N/MoN Nanocomposite Coating. <b>2018</b> ,	
244	Developing Superplasticity in High-Entropy Alloys Processed by Severe Plastic Deformation. <i>Materials Science Forum</i> , <b>2018</b> , 941, 1059-1064	0.4 1
243	Cu <sub>x</sub> CrFeMoTi (x = 0.21, 0.44, 1) high entropy alloys as novel materials for fusion applications. <b>2018</b> , 238-239, 18-25	5
242	Laser metal deposition of a refractory TiZrNbHfTa high-entropy alloy. <b>2018</b> , 24, 386-390	37
241	Features of High-Temperature Oxidation of High-Entropy AlCrFe <sub>3</sub> CoNiCu Alloy. <b>2018</b> , 57, 221-228	2
240	Discovery of a Multinary Noble Metal-Free Oxygen Reduction Catalyst. <b>2018</b> , 8, 1802269	131
239	Microstructural evolution and mechanical properties of (Mg,Co,Ni,Cu,Zn)O high-entropy ceramics. <b>2018</b> , 102, 2228	23

238	Hardening in the Transition to Nanocrystalline State in Pure Metals and Solid Solutions (Ultimate Hardening). <b>2018</b> , 57, 161-174	2
237	Phase Evolution and Mechanical Properties of AlCoCrFeNiSix High-Entropy Alloys Synthesized by Mechanical Alloying and Spark Plasma Sintering. <b>2018</b> , 27, 3304-3314	22
236	Elastic properties of Al CrMnFeCoNi (0 15) high-entropy alloys from ab initio theory. <b>2018</b> , 155, 12-22	51
235	Role of Various Parameters in the Formation of the Physicomechanical Properties of High-Entropy Alloys with BCC Lattices. <b>2018</b> , 119, 477-481	7
234	Producing Multilayer Coatings from the Gas Phase with the Participation of TiC and TiN Compounds on the Hard Alloy VK8. <b>2018</b> , 40, 170-178	1
233	Peculiarities of deformation of CoCrFeMnNi at cryogenic temperatures. <b>2018</b> , 33, 3287-3300	35
232	Creep, fatigue, and fracture behavior of high-entropy alloys. <b>2018</b> , 33, 3011-3034	25
231	Microstructure, mechanical property and Hall-Petch relationship of a light-weight refractory Al0.1CrNbVMo high entropy alloy fabricated by powder metallurgical process. <b>2018</b> , 767, 1012-1021	33
230	Modifying transformation pathways in high entropy alloys or complex concentrated alloys via thermo-mechanical processing. <b>2018</b> , 153, 169-185	108
229	Effects of Iron on Microstructure and Properties of CoCrFexNi Multi-principal Element Alloys. <b>2018</b> , 253-258	
228	Size effects on plasticity in high-entropy alloys. <b>2018</b> , 33, 3055-3076	30
227	Corrosion, Erosion and Wear Behavior of Complex Concentrated Alloys: A Review. <b>2018</b> , 8, 603	41
226	Nanomechanical studies of high-entropy alloys. <b>2018</b> , 33, 3035-3054	19
225	High-entropy alloys and metallic nanocomposites: Processing challenges, microstructure development and property enhancement. <b>2018</b> , 131, 1-42	80
224	Ab initio phase stabilities and mechanical properties of multicomponent alloys: A comprehensive review for high entropy alloys and compositionally complex alloys. <b>2019</b> , 147, 464-511	152
223	Short communication: [Low activation, refractory, high entropy alloys for nuclear applications] <b>2019</b> , 526, 151744	46
222	On the oxidation mechanism of refractory high entropy alloys. <b>2019</b> , 159, 108161	55
221	Structural and thermal properties of nanocrystalline Alx(SiFeCoNi)100-x medium entropy alloys. <b>2019</b> , 6, 106585	1

220	The Phase Composition and Mechanical Properties of Vacuum Coatings Produced from Equiatomic CrFeCoNiMn Alloy. <b>2019</b> , 58, 58-63	0
219	Strain Gradient Plasticity in Multiprincipal Element Alloys. <b>2019</b> , 71, 3466-3472	7
218	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. <b>2019</b> , 122, 212-224	27
217	High temperature oxidation study of direct laser deposited AlXCoCrFeNi (X=0.3,0.7) high entropy alloys. <b>2019</b> , 380, 125028	28
216	Effect of Si and C additions on the reaction mechanism and mechanical properties of FeCrNiCu high entropy alloy. <b>2019</b> , 9, 16356	7
215	Mechanical Characteristics of High-Entropy Alloys and Their Constituent Metals in Friction Conditions at Low Sliding Velocities. <b>2019</b> , 58, 265-269	
214	Hard and superhard nanostructured and nanocomposite coatings. <b>2019</b> , 237-337	1
213	Defect microstructure in high temperature Ni <sup>+</sup> implanted FeCrCoNi-a positron beam study. <b>2019</b> , 806, 780-787	5
212	Entropic Alloys for Cryogenic Applications. <b>2019</b> ,	2
211	Laser additive manufacturing of compositionally graded AlCrFeMoV <sub>x</sub> (x = 0 to 1) high-entropy alloy system. <b>2019</b> , 113, 330-337	35
210	Effect of Ta addition on the structural, thermodynamic and mechanical properties of CoCrFeNi high entropy alloys. <b>2019</b> , 9, 16447-16454	5
209	Surface oxidation mechanism of a refractory high-entropy alloy. <b>2019</b> , 3,	23
208	Materials informatics for the screening of multi-principal elements and high-entropy alloys. <b>2019</b> , 10, 2618	64
207	Evolution of Microstructures and Properties in Al <sub>x</sub> CrFeMn <sub>0.8</sub> Ni <sub>2.1</sub> HEAs. <b>2019</b> , 25, 1135-1144	12
206	Evaluation of the Microstructural Aspects, Mechanical Properties and Dry Sliding Wear Response of MoTaNbVTi Refractory High Entropy Alloy. <b>2019</b> , 25, 1529-1540	15
205	Role of copper on L12 precipitation strengthened fcc based high entropy alloy. <b>2019</b> , 6, 100282	17
204	Activation Volume and Energy for Dislocation Nucleation in Multi-Principal Element Alloys. <b>2019</b> , 9, 263	23
203	High-entropy alloys: basic concepts. <b>2019</b> , 13-30	10

202	Solid solution phases and their microstructures in HEAs. <b>2019</b> , 119-144	
201	Microstructural origins of the high mechanical damage tolerance of NbTaMoW refractory high-entropy alloy thin films. <b>2019</b> , 170, 107692	27
200	Microstructure and magnetic behavior of FeCoNi(MnBi) <sub>x</sub> (x = 0.5, 0.75, 1.0) high-entropy alloys. <b>2019</b> , 34, 829-840	11
199	References. <b>2019</b> , 299-354	
198	High entropy carbide ceramics from different starting materials. <b>2019</b> , 39, 2989-2994	76
197	Effect of Temperature and Texture on HallPetch Strengthening by Grain and Annealing Twin Boundaries in the MnFeNi Medium-Entropy Alloy. <b>2019</b> , 9, 84	22
196	High Compressibility ZrTiHfV0.5Nb0.5Co Refractory High-Entropy Alloys. <i>Materials Science Forum</i> , <b>2019</b> , 944, 163-168	0.4
195	The Influence of Synthesis Conditions on the Phase Composition, Structure, and Properties of the High-Entropy TiCrBeNiCu Alloy. <b>2019</b> , 57, 533-541	3
194	Fabrication, microstructure and mechanical property of a novel Nb-rich refractory high-entropy alloy strengthened by in-situ formation of dispersoids. <b>2019</b> , 81, 15-20	10
193	Nanocrystalline AlNiCoFeCrTi High-Entropy Alloy Resulted from Mechanical Alloying and Annealing. <b>2019</b> ,	
192	On strength of monocrystalline alloys of complex composition based on iron. <b>2019</b> ,	
191	Structural and Chemical Microinhomogeneity of the High-Entropy TiVZrNbHfTa Coating. <b>2019</b> , 58, 469-473	1
190	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> . <b>2019</b> , 162, 477-481	30
189	Mechanical properties of high-entropy alloys with emphasis on face-centered cubic alloys. <b>2019</b> , 102, 296-345	306
188	Dislocation Interaction and V-Shaped Growth of the Distorted Structure During Nanoindentation of Cu <sub>20</sub> Ni <sub>20</sub> Al <sub>20</sub> Co <sub>20</sub> Fe <sub>20</sub> (high-entropy alloy)-Coated Copper: A Molecular Dynamics Simulation-Based Study. <b>2019</b> , 72, 167-180	8
187	Toughening of a low-activation tungsten alloy using tungsten short fibers and particles reinforcement for fusion plasma-facing applications. <b>2019</b> , 59, 026007	9
186	Laser metal deposition of compositionally graded TiZrNbTa refractory high-entropy alloys using elemental powder blends. <b>2019</b> , 25, 252-262	52
185	Review on the transition from conventional to multi-component-based nano-high-entropy alloys/HEAs. <b>2020</b> , 139, 207-216	8

184	Static and cyclic oxidation of Nb-Cr-V-W-Ta high entropy alloy in air from 600 to 1400 °C. <b>2020</b> , 38, 189-196	17
183	Anomalous Evolution of Strength and Microstructure of High-Entropy Alloy CoCrFeNiMn after High-Pressure Torsion at 300 and 77 K. <b>2020</b> , 22, 1900752	11
182	Analysis of strengthening due to grain boundaries and annealing twin boundaries in the CrCoNi medium-entropy alloy. <b>2020</b> , 124, 155-169	77
181	Interplay between single phase solid solution strengthening and multi-phase strengthening in the same high entropy alloy. <b>2020</b> , 771, 138620	12
180	From high-entropy ceramics to compositionally-complex ceramics: A case study of fluorite oxides. <b>2020</b> , 40, 2120-2129	71
179	Effect of irradiation on microstructure and hardening of CrFeNiMn high-entropy alloy and its strengthened version. <b>2020</b> , 100, 822-836	11
178	The effect of the parameters of the powder bed fusion process on the microstructure and mechanical properties of CrFeCoNi medium-entropy alloys. <b>2020</b> , 116, 106651	17
177	Effect of high-temperature exposure on the microstructure and mechanical properties of the Al <sub>5</sub> Ti <sub>5</sub> Co <sub>35</sub> Ni <sub>35</sub> Fe <sub>20</sub> high-entropy alloy. <b>2020</b> , 9, 551-559	12
176	Influence of Process Parameters on Microstructure Evolution During Hot Deformation of a Eutectic High-Entropy Alloy (EHEA). <b>2020</b> , 51, 6406-6420	7
175	Dislocation-based serrated plastic flow of high entropy alloys at cryogenic temperatures. <b>2020</b> , 200, 980-991	10
174	Structure, Stability, and Properties of High-Entropy Alloys. <b>2020</b> , 121, 733-764	20
173	Strength and Plasticity of Cast Solid-Soluble High-Entropy Alloys. <b>2020</b> , 52, 700-706	
172	Spark Plasma Sintered High-Entropy Alloys: An Advanced Material for Aerospace Applications. <b>2020</b> , ,	
171	First-principles study of phase stability, elastic and thermodynamic properties of AlCrFeNi medium-entropy alloys. <b>2020</b> , 34, 2050218	4
170	A new single crystal high entropy alloy with excellent high-temperature tensile property. <b>2020</b> , 7, 046507	4
169	Influence of Al substitution for Sc on thermodynamic properties of HCP high entropy alloy Hf <sub>0.25</sub> Ti <sub>0.25</sub> Zr <sub>0.25</sub> Sc <sub>0.25</sub> -xAl <sub>x</sub> from first-principles investigation. <b>2020</b> , 593, 412272	6
168	Comparing CALPHAD predictions with high energy synchrotron radiation X-ray diffraction measurements during in situ annealing of Al <sub>0.3</sub> CoCrFeNi high entropy alloy. <b>2020</b> , 12, 100784	3
167	A step forward from high-entropy ceramics to compositionally complex ceramics: a new perspective. <b>2020</b> , 55, 9812-9827	62

166	Effect of Y Additions on the Oxidation Behaviour of Novel Refractory High-Entropy Alloy NbMoCrTiAl at 1000 °C in Air. <b>2020</b> , 94, 147-163	5
165	Hydrogen storage performance of the multi-principal-component CoFeMnTiVZr alloy in electrochemical and gas-solid reactions.. <b>2020</b> , 10, 24613-24623	14
164	High-Entropy Alloys for Micro- and Nanojoining Applications. <b>2020</b> ,	2
163	High-Entropy Ceramics. <b>2020</b> ,	1
162	High entropy alloy electrocatalysts: a critical assessment of fabrication and performance. <b>2020</b> , 8, 14844-14862	6
161	Effect of Mo and Ti on the microstructure and microhardness in AlCoFeNiMoTi high entropy alloys prepared by mechanical alloying and conventional sintering. <b>2020</b> , 31, 1693-1701	10
160	Chemical environment and magnetic moment effects on point defect formations in CoCrNi-based concentrated solid-solution alloys. <b>2020</b> , 187, 122-134	57
159	Nanostructured AlNiCoFeCrTi high-entropy coating performed by cold spray. <b>2020</b> , 10, 4879-4890	10
158	On the tensile strength of medium entropy Fe <sub>30</sub> Ni <sub>30</sub> Cr <sub>20</sub> Co <sub>17</sub> Mo <sub>2</sub> W <sub>1</sub> alloy with high microstructural stability. <b>2020</b> , 781, 139239	4
157	Comparison of cryogenic deformation of the concentrated solid solutions CoCrFeMnNi, CoCrNi and CoNi. <b>2020</b> , 783, 139290	21
156	Synthesis of CoCrFeNiMnW <sub>0.25</sub> High-Entropy Alloy Powders by Mechanical Alloying and Plasma Spheroidization Processes for Additive Manufacturing. <b>2021</b> , 27, 50-54	8
155	Evolution of Microstructures and Compressive Properties in Al <sub>0.5</sub> CrFeNi <sub>2.1</sub> Mn <sub>0.8</sub> Ti <sub>x</sub> High Entropy Alloys. <b>2021</b> , 27, 118-126	2
154	Precipitation hardening of high entropy alloy CoCrFeMnNi containing titanium. <b>2021</b> , 857, 157610	12
153	Microstructural and mechanical properties of AlCoCrCuFeNiSix (x=0.3 and 0.6) high entropy alloys synthesized by spark plasma sintering. <b>2021</b> , 856, 158193	3
152	Effects of temperature on mechanical properties and deformation mechanisms of the equiatomic CrFeNi medium-entropy alloy. <b>2021</b> , 204, 116470	32
151	High-Temperature Oxidation in Dry and Humid Atmospheres of the Equiatomic CrMnFeCoNi and CrCoNi High- and Medium-Entropy Alloys. <b>2021</b> , 95, 105-133	9
150	Helium ions irradiation analysis of W <sub>0.5</sub> (TaTiVCr) <sub>0.5</sub> for application as a future fusion plasma-facing material. <b>2021</b> , 260, 124198	2
149	Lattice distortion as an estimator of solid solution strengthening in high-entropy alloys. <b>2021</b> , 172, 110877	24

- 148 Effect of oxidation on the thermal expansion of a refractory multicomponent alloy. **2021**, 101, 173-182 3
- 147 Current Status of Research on the Oxidation Behavior of Refractory High Entropy Alloys. **2021**, 23, 2001047 20
- 146 Superior low-cycle fatigue properties of CoCrNi compared to CoCrFeMnNi. **2021**, 194, 113667 23
- 145 In-situ development of MB2 and their effect on microstructure and mechanical properties of refractory HF0.5Mo0.5NbTiZr high entropy alloy matrix composites. **2021**, 96, 105473 2
- 144 Sluggish diffusion in random equimolar FCC alloys. **2021**, 5, 2
- 143 Designing AlCoCrFeNiTi high-entropy alloy with the directional array TiN by magnetic field-assisted laser cladding. **2021**, 127, 1 3
- 142 Comparison of titanium nitride and high-entropy coatings on parts of industrial plants. **2021**, 1901, 012101
- 141 High-Temperature Oxidation of High-Entropic Alloys: A Review. **2021**, 14, 8
- 140 Slurry Erosion-Corrosion Resistance of MoNbTaTiZr High Entropy Alloy. **2021**, 7, 1
- 139 Nano-twin-induced exceptionally superior cryogenic mechanical properties of a Ni-based GH3536 (Hastelloy X) superalloy. **2021**, 14, 100110 8
- 138 Plasticity induced by nanoindentation in a CrCoNi medium-entropy alloy studied by accurate electron channeling contrast imaging revealing dislocation-low angle grain boundary interactions. **2021**, 817, 141364 3
- 137 Recent progress in high-entropy alloys for catalysts: synthesis, applications, and prospects. **2021**, 20, 100638 21
- 136 Bifunctional nanoprecipitates strengthen and ductilize a medium-entropy alloy. **2021**, 595, 245-249 32
- 135 Composition and Properties of High-Entropy CrZrTiNiCu Coating. *Materials Science Forum*, 1037, 479-485.4
- 134 FECOCRNI MOTIW HIGH-ENTROPIC COATINGS AND THEIR PROPERTIES. 12-16
- 133 Rapid Fabrication of High-Entropy Ceramic Nanomaterials for Catalytic Reactions. **2021**, 6
- 132 Synthesis and characterizations of (Mg, Co, Ni, Cu, Zn)O high-entropy oxides. **2021**, 3, 1
- 131 Laser metal deposition of Al<sub>0.6</sub>CoCrFeNi with Ti & C additions using elemental powder blends. **2021**, 418, 127233 2

130	Searching novel complex solid solution electrocatalysts in unconventional element combinations. 1	2
129	Effect of vanadium content on microstructure and properties of in situ TiC reinforced VxFeCoNiCu multi-principal-element alloy matrix composites. <b>2021</b> , 28, 1471	0
128	Was macht Hochentropie-Legierungen zu auergewnlichen Elektrokatalysateuren?.	1
127	What Makes High-Entropy Alloys Exceptional Electrocatalysts?. <b>2021</b> ,	19
126	Temperature-Dependent Superplasticity and Strengthening in CoNiCrFeMn High Entropy Alloy Nanowires Using Atomistic Simulations. <b>2021</b> , 11,	1
125	Review of Recent Research on AlCoCrFeNi High-Entropy Alloy. <b>2021</b> , 11, 1302	9
124	Compatibility and microstructure evolution of Al-Cr-Fe-Ni high entropy model alloys exposed to oxygen-containing molten lead. <b>2021</b> , 189, 109593	7
123	Effect of interstitial N atom on physical and mechanical properties of FeCoCrNiMn high-entropy alloys: A first-principles study. <b>2021</b> , 615, 413078	3
122	High-entropy carbide ceramics with refined microstructure and enhanced thermal conductivity by the addition of graphite. <b>2021</b> , 41, 4747-4754	12
121	Understanding Magnetic Exchange Interactions by the Pressure Dependent Curie Temperature in FeCoNiCuMn High Entropy Alloys. <b>2021</b> , 42, 617	0
120	A four-component entropy-stabilized orthorhombic oxide. <b>2021</b> , 299, 130082	1
119	Microstructure and mechanical properties of W-Ta-V-Cr high-entropy alloy coatings by double glow plasma surface alloying. <b>2021</b> , 307, 130873	0
118	Strain-Rate Sensitive Deformation Behavior under Tension and Compression of Al <sub>0.3</sub> CrFeCoNiMo <sub>0.2</sub> . 2100921	1
117	Development of ultrahigh-entropy ceramics with tailored oxidation behavior. <b>2021</b> , 41, 5791-5800	7
116	Machine learning of phases and mechanical properties in complex concentrated alloys. <b>2021</b> , 87, 133-142	15
115	Dual phase equal-atomic NbTaTiZr high-entropy alloy with ultra-fine grain and excellent mechanical properties fabricated by spark plasma sintering. <b>2021</b> , 90, 150-158	4
114	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. <b>2021</b> , 220, 117281	1
113	Design of ternary high-entropy aluminum alloys (HEALs). <b>2022</b> , 891, 161836	2

112	Investigation of microstructure and wear resistance of laser-clad CoCrNiTi and CrFeNiTi medium-entropy alloy coatings on Ti sheet. <b>2022</b> , 145, 107518	4
111	Development of high entropy alloys: A review. <b>2021</b> , 43, 502-509	16
110	Design of New Nanocoatings Based on Hard Alloy. <b>2020</b> , 522-531	3
109	Design of Nickel-Cobalt-Ruthenium multi-principal element alloys. <b>2020</b> , 194, 224-235	6
108	Microstructure and thermal conductivity of Cu-Cu <sub>2</sub> AlNiZnAg/diamond coatings on pure copper substrate via high-energy mechanical alloying method. <b>2020</b> , 21, 100742	1
107	Interplay of Crystal Structure Preference and Magnetic Ordering in High Entropy CrCoFeNiAl Alloys. <b>2018</b> , 133, 511-513	5
106	In Vitro Biocompatibility of Si Alloyed Multi-Principal Element Carbide Coatings. <b>2016</b> , 11, e0161151	30
105	Formation of Structure and Phase Composition of Nanocrystalline CuNiAlFeCr Alloy by the Mechanical Alloying Method. <b>2016</b> , 36, 477-490	4
104	High-Temperature Diffractometry Study of Features of the FeCoNiMnCr Alloy Oxidation. <b>2016</b> , 36, 829-840	5
103	Structure of the High-Entropy CrMnFeCoNi and CrMnFeCoNi <sub>2</sub> Cu Alloys and Thermal Stability of Its Electrical Transport Properties. <b>2016</b> , 37, 731-740	2
102	Prediction of Stable Composition for High-Entropy Refractory Alloys. <b>2016</b> , 38, 1395-1405	1
101	A critical analysis of the X-ray diffraction intensities in concentrated multicomponent alloys. <b>2019</b> , 110, 393-405	4
100	High-melting point compounds: new approaches and new results. <b>2017</b> , 187, 296-310	4
99	Microstructural Evolution in CuCrFeNi, CuCrFeNiMn, and CuCrFeNiMnAl High Entropy Alloys. <b>2015</b> , 45, 9-15	4
98	High-entropy ceramics: Review of principles, production and applications. <b>2021</b> , 146, 100644	32
97	Effect of Aluminum Content on Microstructure and Mechanical Properties of High-Entropy Al <sub>x</sub> CuNiTi Alloys.	
96	Structure and Properties of Refractory High-Entropy Alloys. <b>2014</b> , 1093-1096	1
95	OBTENÇÃO E CARACTERIZAÇÃO DE LIGAS FeCrNiCoAlCu e FeCrNiCo(AlCu) <sub>0,5</sub> MULTICOMPONENTES DE ALTA ENTROPIA.	

- 94 Electronic Structure and Microhardness of Ti, V, Cr Carbide Coatings on Steel U10A. **2016**, 38, 531-544
- 93 Effect of Annealing on the Phase Composition, Microstructure and Physical-Mechanical Properties of Evolution of High-Entropy CrMnFeCoNi<sub>2</sub>Cu Alloy. **2017**, 39, 633-644
- 92 Structural State of Cast High-Entropy Alloys with F.C.C. Lattice and Its Influence on the Hardness Characteristics. **2018**, 39, 1589-1598
- 91 Influence of the technological scheme of manufacture on the structure and properties of high entropy alloys of the system Ti-Cr-Fe-Ni-Cu. **2018**, 86, 36-44
- 90 High-entropy AlCoNiFeCrTiVx coatings by electron-beam cladding. **2019**, 90, 52-61
- 89 AlCoNiFeCrTiVx High-Entropy Coatings Prepared by Electron-Beam Cladding. **2020**, 177-186
- 88 Microstructure and microhardness of high entropy alloys with Zn addition: AlCoFeNiZn and AlCoFeNiMoTiZn. **2021**, 32, 4687-4687 4
- 87 Ultra-small-angle neutron scattering study on temperature-dependent precipitate evolution in CoCrFeNiMo<sub>0.3</sub> high entropy alloy. **2021**, 222, 117446 2
- 86 Thermodynamic modelling to predict phase stability in BCC + B2 AlTiCoNiBeCr high entropy alloys. **2022**, 276, 125395 1
- 85 Work function, surface energy and properties of highly entropic coatings. **2020**, 1 1
- 84 Second Phase of 29Fe15Al18Cr27Ni High-Entropy Alloy. **2020**, 1603-1613
- 83 A ductile Nb<sub>40</sub>Ti<sub>25</sub>Al<sub>15</sub>V<sub>10</sub>Ta<sub>5</sub>Hf<sub>3</sub>W<sub>2</sub> refractory high entropy alloy with high specific strength for high-temperature applications. **2021**, 831, 142290 3
- 82 Yüksek Entropili Alaşınlar: Üretimi, Özellikleri ve kullanım alanları 0
- 81 High entropy alloys towards industrial applications: High-throughput screening and experimental investigation. **2022**, 830, 142297 1
- 80 High-entropy ZrTiCrNiCu coating. **2021**, 2064, 012080
- 79 Zn based hydroxyapatite based coatings deposited on a novel FeMoTaTiZr high entropy alloy used for bone implants. **2021**, 28, 101591 5
- 78 Positron beam studies on the irradiation response of FeCrCoNi upon He ion implantation. **2021**, 162776 0
- 77 Mechanical Properties and Mechanisms of Deformation of High Entropy Alloys. **2021**, 33-52

76	Phase evolution during entropic stabilization of ZrC, NbC, HfC, and TiC. <b>2022,</b>	1
75	Progress in Light-weight High Entropy Alloys. <b>2021, 36, 737-753</b>	0
74	Experimental determination of effective atomic radii of constituent elements in CrMnFeCoNi high-entropy alloy. 1-11	1
73	High-entropy alloys:properties and application. <b>2022, 91,</b>	2
72	An overview of high-entropy alloys. 1	0
71	Microstructure evolution and acid corrosion behavior of CoCrFeNiCu1xMox high-entropy alloy coatings fabricated by coaxial direct laser deposition. <b>2022, 198, 110108</b>	1
70	Microstructure and properties of CoCrNiFeMnAl0.5 high-entropy alloys prepared by gas atomization combined with oscillatory pressure sintering. <b>2022, 143, 107460</b>	
69	Laser dewetting mechanism and antibacterial properties of Cu-Al based medium entropy alloy films. <b>2022, 903, 163893</b>	1
68	Development of Complex Concentrated Alloys (CCAs) Utilizing Scrap to Preserve Critical Raw Materials. <b>2021, 5, 5109</b>	0
67	Electrocatalysts for the Oxygen Reduction Reaction: From Bimetallic Platinum Alloys to Complex Solid Solutions. <b>2022, 6, 19</b>	0
66	Microstructure and electrochemical properties of FeCoNiCuZn high-entropy alloy films by DC electrodeposition. <b>2022, 113, 253-257</b>	
65	Effects of WC addition on the erosion behavior of high-velocity oxygen fuel sprayed AlCoCrFeNi high-entropy alloy coatings. <b>2022,</b>	0
64	Strength-ductility synergy of Al-bearing low-density refractory TiNbMo0.5Alx medium entropy alloys via precipitation. <b>2022, 143072</b>	0
63	Strengthening mechanism of CrCoNi medium-entropy alloy from the partially recrystallized structure to the fully recrystallized heterogeneous structure. <b>2022, 186, 111795</b>	1
62	Modification of Hydrogenation and Corrosion Properties of Hydrogen Storage Material by Amorphous TiCrFeCoNi HEA Layer.. <b>2022, 15,</b>	0
61	Theoretical critical metastability temperature to interpret phase formation in a lamellar-like-structured high entropy alloy. <b>2022, 18, 2519-2530</b>	0
60	Investigations on superconductivity in an equi-atomic disordered Hf-Nb-Ta-Ti-V high entropy alloy. <b>2022, 144, 107503</b>	0
59	The manufacturing process optimization and the mechanical properties of FeCoCrNi high entropy alloys fabricated by selective laser melting. <b>2022, 145, 107557</b>	1

- 58 Hydrogen embrittlement and failure mechanisms of multi-principal element alloys: A review. **2022**, 122, 20-32 2
- 57 Research Status of High Entropy Thermal Barrier Coatings: A Review. **2021**,
- 56 Magnetic properties of CrFeCoNi based high entropy alloy. **2021**, 2122, 012004
- 55 Obtaining a High-Entropy FeCrCoNiTi Alloy by Mechanical Alloying and Electric Spark Plasma Sintering of a Powder Mixture. **2021**, 62, 716-722
- 54 Recent Advances in Additive Manufacturing of High Entropy Alloys and Their Nuclear and Wear-Resistant Applications. **2021**, 11, 1980 1
- 53 High-Entropy ZrTiCrNiCu Coating. **2021**, 43, 1365-1375
- 52 The Study of Structural Changes in Homogenized High-Entropy Alloys. **2021**, 24, 663-673
- 51 The study of mechanical and tribology properties at room- and high-temperature in a (NiCoFe)<sub>86.5</sub>(AlTi)<sub>12</sub>(WMoV)<sub>1.5</sub> high-entropy alloy. **2022**, 165082 0
- 50 Plateau Temperature Dependence of the Critical Shear Stress in Binary and Multicomponent Solid Solutions and in Pure Metals. **2022**, 44, 127-140 0
- 49 Role of electronic energy loss on defect production and interface stability: Comparison between ceramic materials and high-entropy alloys. **2022**, 26, 101001 0
- 48 The Effect of Increasing Nickel Content on the Microstructure, Hardness, and Corrosion Resistance of the CuFeTiZrNi High-Entropy Alloys.. **2022**, 15, 1 1
- 47 High temperature oxidation enhanced by laser remelted of CoCrFeNiAl<sub>x</sub> (x = 0.1, 0.5 and 1) high-entropy alloys. **2022**, 165297 0
- 46 Development and Property Tuning of Refractory High-Entropy Alloys: A Review. 1 1
- 45 Synthesis and characterization of CoCrFeNi<sub>1.75-x</sub>Ti<sub>0.25+x</sub> high entropy alloy. **2022**,
- 44 Solid state processing of the cantor derived alloy CoCrFeMnNi by oxide reduction. **2022**, 100286 0
- 43 Enhancement mechanism of fracture-resistance of CrMnFeCoNi high-entropy alloys: A molecular dynamics study. **2022**, 33, 103603 0
- 42 Microstructural Characterization and Tribological Properties of Atmospheric Plasma Sprayed High Entropy Alloy Coatings. 1 1
- 41 Outstanding yield strength of CoCrNiTa<sub>0.1</sub> medium entropy alloy under the synergistic regulated with nanoprecipitation and grain refining. **2022**, 165715 0

- 40 Effect of Mechanical Activation and the Content of a Metal Binder on Ti<sub>2</sub>B<sub>2</sub>x (Fe<sub>2</sub>Co<sub>2</sub>Cr<sub>2</sub>Ni<sub>2</sub>Al) Combustion. **2022**, 58, 169-177
- 39 Simultaneous Twinning and Microband-Induced Plasticity of a Compositionally Complex Alloy with Interstitial Carbon at Cryogenic Temperatures.
- 38 Self-diffusion in carbon-alloyed CoCrFeMnNi high entropy alloys. **2022**, 237, 118136
- 37 A multi-principal element alloy combining high specific strength and good ductility. **2022**, 132905
- 36 Electrodeposition of High Entropy Alloy of Ni-Co-Cu-Mo-W from an Aqueous Bath. **2022**, 169, 082515
- 35 Irradiation effects in high-entropy alloys and their applications. **2022**, 166768
- 34 Phase Evolution in Multicomponent Ceramic Solid Solutions.
- 33 The role of 9R structures on deformation-induced martensitic phase transformations in dual-phase high-entropy alloys. **2022**, 853, 143705
- 32 Corrosion behavior of Al-containing CoNiV alloys. **2022**, 207, 110567
- 31 Tribological behavior of CoCrFeNiMn high-entropy alloy against 304, Al<sub>2</sub>O<sub>3</sub> and Si<sub>3</sub>N<sub>4</sub> counterparts. **2022**, 508-509, 204471
- 30 Microstructure and Mechanical Properties of Ni-Based Complex Concentrated Alloys under Radiation Environment. **2022**, 12, 1322
- 29 Passive film formation on the new biocompatible non-equiatomic Ti<sub>21</sub>Nb<sub>24</sub>Mo<sub>23</sub>Hf<sub>17</sub>Ta<sub>15</sub> high entropy alloy before and after resting in simulated body fluid. **2022**, 207, 110607
- 28 Microscale deformation controlled by compositional fluctuations in equiatomic NbMoTaW alloys. **2022**, 856, 143892
- 27 Erosion behavior and mechanism of the HVOF-sprayed (AlCoCrFeNi)/(WC-10Co)<sub>1</sub>- composite coatings at different slurry sand concentrations. **2023**, 110, 106011
- 26 Effects of Nb Additions and Heat Treatments on the Microstructure, Hardness and Wear Resistance of CuNiCrSiCoTiNbx High-Entropy Alloys. **2022**, 24, 1195
- 25 Theoretical Characterization of Indentation Depth-Dependent Creep Behavior of CoCrFeNiAl<sub>0.3</sub> High-Entropy Alloy.
- 24 Polymer-Derived Ceramics Technology: Characteristics, Procedure, Product Structures, and Properties, and Development of the Technology in High-Entropy Ceramics. **2022**, 12, 1292
- 23 Elucidating the Chemical Order and Disorder in High-Entropy MXenes: A High-Throughput Survey of the Atomic Configurations in TiVNbMoC<sub>3</sub> and TiVCrMoC<sub>3</sub>.

- 22 Heterogeneous structure and dynamic deformation of an equiatomic TiZrV medium-entropy alloy. **2022**, 857, 144042 ○
- 21 Microstructure, Thermal, and Magnetic Properties of the AlCoFeMnNi and AlCoFeMnNiX<sub>10</sub> (X = Ti, Cr, Sn, V, Hf, Ga) High-Entropy Alloys. ○
- 20 Refractory high-entropy alloys: A focused review of preparation methods and properties. **2022**, ○
- 19 High-Entropy Nanomaterials for Electrochemical Energy Conversion and Storage. 1, ○
- 18 Laser remelting of CoCrFeNiTi high entropy alloy coatings fabricated by directed energy deposition: Effects of remelting laser power. **2023**, 158, 108871 1
- 17 Strain-Rate Effects and Dynamic Behavior of High Entropy Alloys. **2022**, 1 ○
- 16 Microparticles of High Entropy Alloys Made by Laser-Induced Forward Transfer. **2022**, 15, 8063 ○
- 15 Temperature-dependent tensile behavior of the HfNbTaTiZr multi-principal element alloy. **2023**, 245, 118618 ○
- 14 Microstructure and oxidation behavior of CoCrTa ternary alloys. **2023**, 936, 167968 ○
- 13 Effect of electron-beam treatment on the structure and properties of (B+Cr) film deposited on a high-entropy alloy AlCrFeCoNi. **2022**, 133704 ○
- 12 Cobalt free Refractory High Entropy Alloys for Total Joint Arthroplasty: In-vitro Wear, Corrosion and Cytocompatibility Evaluation. **2022**, 168499 ○
- 11 Hall-Petch Strengthening by Grain Boundaries and Annealing Twin Boundaries in Non-Equiatomic Ni<sub>2</sub>FeCr Medium-Entropy Alloy. **2023**, 13, 134 ○
- 10 Doubled strength and ductility via maraging effect and dynamic precipitate transformation in ultrastrong medium-entropy alloy. **2023**, 14, ○
- 9 Effect of cold working on the rate sensitivity in high entropy lamellar CoCrFeNi(Nb /Ta ) eutectic composites. **2023**, 864, 144557 ○
- 8 Production of high-entropy FeCrCoNiTi alloy by mechanical alloying and spark plasma sintering of a powder mixture. **2021**, 4-12 ○
- 7 Review of Novel High-Entropy Protective Materials: Wear, Irradiation, and Erosion Resistance Properties. **2023**, 25, 73 ○
- 6 Analyzing the Phase Evolution, Microstructure and Wear Response of Spark Plasma Sintered Al<sub>0.5</sub>CoCrFeNi<sub>2</sub> High Entropy Superalloy. 2201523 ○
- 5 The Influence of Annealing at 500 and 900 °C on the Structure and Mechanical Properties of Al<sub>x</sub>CoCrFeNi Alloys. **2023**, 16, 1245 ○

- 4 Interaction of a diffusion barrier from the refractory metals with a zirconium alloy and a chrome coating of an accident tolerant fuel. **2023**, 407, 112307 ○
- 3 Microstructure evolution and mechanical properties in a gas tungsten arc welded Fe<sub>42</sub>Mn<sub>28</sub>Co<sub>10</sub>Cr<sub>15</sub>Si<sub>5</sub> metastable high entropy alloy. **2023**, 867, 144722 ○
- 2 Structure of High-Entropy Solders and Soldered Seams Based on Transition  $d$ -Metals. **2023**, 45, 75-93 ○
- 1 Laser-directed energy deposition of CoCrFeNiTi high entropy alloy coatings: effects of powder geometry and laser power. ○