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Nanostructured High-Entropy Alloys with Multiple Principal Elements: Novel Alloy Design Concepts and Outcomes

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2177	Effect of substrate bias on the structure and properties of multi-element (AlCrTaTiZr)N coatings. 2006 , 39, 4628-4633		59
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2174	Adhesive wear behavior of Al _x CoCrCuFeNi high-entropy alloys as a function of aluminum content. 2006 , 261, 513-519		425
2173	Effect of vanadium addition on the microstructure, hardness, and wear resistance of Al _{0.5} CoCrCuFeNi high-entropy alloy. 2006 , 37, 1363-1369		223
2172	Selected corrosion behaviors of a Cu _{0.5} NiAlCoCrFeSi bulk glassy alloy in 288°C high-purity water. 2006 , 54, 1997-2001		41
2171	The Effect of Boron on the Corrosion Resistance of the High Entropy Alloys Al _[sub 0.5] CoCrCuFeNiB _[sub x] . 2007 , 154, C424		149
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2168	Influence of substrate temperature on structure and mechanical, properties of multi-element (AlCrTaTiZr)N coatings. 2007 , 201, 6993-6998		64

2167	Structure and properties of reactively-sputtered Al _x CoCrCuFeNi oxide films. 2007 , 516, 141-146		16
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2164	Microstructure and compressive properties of multicomponent Al _x (TiVCrMnFeCoNiCu) _{100-x} high-entropy alloys. 2007 , 454-455, 260-265		195
2163	Anomalous decrease in X-ray diffraction intensities of Cu _{0.5} NiAlCoCrFeSi alloy systems with multi-principal elements. 2007 , 103, 41-46		341
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2161	Corrosion properties of a novel bulk Cu _{0.5} NiAlCoCrFeSi glassy alloy in 288°C high-purity water. 2007 , 61, 2692-2696		34
2160	Solid solution alloys of AlCoCrFeNiTi _x with excellent room-temperature mechanical properties. 2007 , 90, 181904		648
2159	Configurational Entropies of Mixing in Solid Alloys. 2007 , 28, 79-89		12
2158	Effects of Mn, Ti and V on the microstructure and properties of AlCrFeCoNiCu high entropy alloy. 2008 , 498, 482-486		175
2157	Diffusion barrier properties of AlMoNbSiTaTiVZr high-entropy alloy layer between copper and silicon. 2008 , 516, 5527-5530		121
2156	Enhancing pitting corrosion resistance of Al _x CrFe _{1.5} MnNi _{0.5} high-entropy alloys by anodic treatment in sulfuric acid. 2008 , 517, 1301-1305		93
2155	Minor alloying behavior in bulk metallic glasses and high-entropy alloys. 2008 , 51, 427-437		24
2154	Solid-Solution Phase Formation Rules for Multi-component Alloys. <i>Advanced Engineering Materials</i> , 2008 , 10, 534-538	3.5	1412
2153	Iron Based Alloy with Hierarchical Structure and Superior Mechanical Performance. <i>Advanced Engineering Materials</i> , 2008 , 10, 46-50	3.5	6
2152	Electrochemical preparation and magnetic study of BiBeCoNiMn high entropy alloy. 2008 , 53, 8359-8365		92
2151	Influence of substrate bias, deposition temperature and post-deposition annealing on the structure and properties of multi-principal-component (AlCrMoSiTi)N coatings. 2008 , 202, 3360-3366		118
2150	Elucidating the microstructure and wear behavior for multicomponent alloy clad layers by in situ synthesis. 2008 , 202, 4666-4672		41

2149	Corrosion behavior of $(\text{TiAlCrSiV})_x\text{Ni}_y$ coatings on mild steels derived from RF magnetron sputtering. 2008 , 203, 558-561	43
2148	Thermal stability of hard transparent $\text{Al}_x\text{CoCrCuFeNi}$ oxide thin films. 2008 , 203, 495-500	11
2147	Nitride films deposited from an equimolar AlCrMoSiTi alloy target by reactive direct current magnetron sputtering. 2008 , 516, 6402-6408	73
2146	Microstructure and compressive properties of AlCrFeCoNi high entropy alloy. 2008 , 491, 154-158	320
2145	Effect of Co addition on crystal structure and mechanical properties of $\text{Ti}_{0.5}\text{CrFeNiAlCo}$ high entropy alloy. 2008 , 496, 214-216	79
2144	Characteristics of multi-element alloy cladding produced by TIG process. 2008 , 62, 2490-2492	11
2143	Microstructure characterizations and strengthening mechanism of multi-principal component $\text{AlCoCrFeNiTi}_{0.5}$ solid solution alloy with excellent mechanical properties. 2008 , 62, 2673-2676	69
2142	Phase transformation induced by lattice distortion in multiprincipal component $\text{CoCrFeNiCu}_x\text{Al}_{1-x}$ solid-solution alloys. 2008 , 92, 241917	112
2141	Effects of nitrogen flow ratio on the structure and properties of reactively sputtered $(\text{AlMoNbSiTaTiVZr})_N$ coatings. 2008 , 41, 235402	39
2140	Rapidly solidified structure of alloys with up to eight equal-molar elements simulation by molecular dynamics. 2008 , 20, 145214	28
2139	Effect of Cu addition on the microstructure and mechanical properties of $\text{AlCoCrFeNiTi}_{0.5}$ solid-solution alloy. 2008 , 466, 201-204	84
2138	Bulk nano-crystalline Fe-based alloys by annealing bulk glassy precursors. 2008 , 16, 52-57	13
2137	Effect of the aluminium content of $\text{Al}_x\text{CrFe}_{1.5}\text{MnNi}_{0.5}$ high-entropy alloys on the corrosion behaviour in aqueous environments. 2008 , 50, 2053-2060	247
2136	Thermally stable amorphous $(\text{AlMoNbSiTaTiVZr})_{50}\text{N}_{50}$ nitride film as diffusion barrier in copper metallization. 2008 , 92, 052109	74
2135	B2 structure of high-entropy alloys with addition of Al. 2008 , 104, 113504	79
2134	Microstructure and properties of AlTiNiMnB_x high entropy alloys. 2008 , 24, 376-378	26
2133	Hard transparent conducting hex-element complex oxide films by reactive sputtering. 2008 , 23, 3075-3089	8
2132	Sputter Deposition of Multi-Element Nanoparticles as Electrocatalysts for Methanol Oxidation. 2008 , 47, 5755-5761	31

2131	Effect of annealing on atomic ordering of amorphous ZrTaTiNbSi alloy. 2009 , 95, 241905		12
2130	Multiprincipal-Element AlCrTaTiZr-Nitride Nanocomposite Film of Extremely High Thermal Stability as Diffusion Barrier for Cu Metallization. 2009 , 156, G37		43
2129	Complex structure/composition relationship in thin films of AlCoCrCuFeNi high entropy alloy. 2009 , 117, 142-147		97
2128	Structural evolution during mechanical milling and subsequent annealing of CuNiAlCoCrBeTi alloys. 2009 , 118, 354-361		18
2127	Solid Solution or Intermetallics in a High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2009 , 11, 641-644	3.5	139
2126	Microstructure and Mechanical Performance of Brand-New Al _{0.3} CrFe1.5MnNi _{0.5} High-Entropy Alloys. <i>Advanced Engineering Materials</i> , 2009 , 11, 788-794	3.5	20
2125	Characterization of multi-element alloy claddings manufactured by the tungsten inert gas process. 2009 , 203, 2983-2988		23
2124	Microstructure and wear properties of multicomponent alloy cladding formed by gas tungsten arc welding (GTAW). 2009 , 203, 3231-3234		29
2123	Effect of Aluminum Content on Plasma-Nitrided Al _x CoCrCuFeNi High-Entropy Alloys. 2009 , 40, 1479-1486		45
2122	Microstructure and Mechanical Properties of Multicomponent Aluminum Alloy by Rapid Solidification. 2009 , 18, 79-82		1
2121	Bulk nano-crystalline alloys. 2009 , 12, 34-39		15
2120	Microstructure, thermophysical and electrical properties in Al _x CoCrFeNi (0 ≤ x ≤ 2) high-entropy alloys. 2009 , 163, 184-189		393
2119	High thermal stability of AlCrTaTiZr nitride film as diffusion barrier for copper metallization. 2009 , 517, 4961-4965		16
2118	Effects of substrate temperature and post-annealing on microstructure and properties of (AlCrNbSiTiV)N coatings. 2009 , 518, 180-184		51
2117	Elucidating the microstructural and tribological characteristics of NiCrAlCoCu and NiCrAlCoMo multicomponent alloy clad layers synthesized in situ. 2009 , 203, 1694-1701		38
2116	Phase transformation and mechanical behavior of TiFeCoNi alloy during annealing. 2009 , 501, 81-86		14
2115	Microstructure and mechanical properties of CoCrFeNiTiAl _x high-entropy alloys. 2009 , 508, 214-219		220
2114	Effect of aging temperature on microstructure and properties of AlCoCrCuFeNi high-entropy alloy. 2009 , 17, 266-269		179

2113	Golden Mean analysis of bulk metallic glasses with critical diameter over half-inch for their mole fractions of compositions. 2009 , 17, 696-703	11
2112	Effect of alloying elements on microstructure and properties of multiprincipal elements high-entropy alloys. 2009 , 475, 752-757	213
2111	The microstructure and phase equilibrium of new high performance high-entropy alloys. 2009 , 483, 209-212	59
2110	Alloying behavior of binary to octonary alloys based on CuNiAlCoCrFeTiMo during mechanical alloying. 2009 , 477, 696-705	69
2109	Age hardening of the Al _{0.3} CoCrFeNi _{0.1} high entropy alloy. 2009 , 478, 269-272	99
2108	Effect of platinum present in multi-element nanoparticles on methanol oxidation. 2009 , 478, 868-871	33
2107	Microstructure and tensile behaviors of FCC Al _{0.3} CoCrFeNi high entropy alloy. 2009 , 479, 157-160	222
2106	Competition between elements during mechanical alloying in an octonary multi-principal-element alloy system. 2009 , 481, 768-775	132
2105	Nanocrystalline CoCrFeNiCuAl high-entropy solid solution synthesized by mechanical alloying. 2009 , 485, L31-L34	120
2104	Deformation and annealing behaviors of high-entropy alloy Al _{0.5} CoCrCuFeNi. 2009 , 486, 427-435	215
2103	Effect of anodic dissolution in multi-element nanoparticles on methanol electro-oxidation. 2009 , 486, 738-742	2
2102	Microstructure and mechanical property of as-cast, -homogenized, and -deformed Al _x CoCrFeNi (0 ≤ x ≤ 2) high-entropy alloys. 2009 , 488, 57-64	496
2101	TENSILE AND COMPRESSIVE MECHANICAL BEHAVIOR OF A CoCrCuFeNiAl _{0.5} HIGH ENTROPY ALLOY. 2009 , 23, 1254-1259	69
2100	Effects of substrate bias on structure and mechanical properties of (AlCrNbSiTiV)N coatings. 2009 , 42, 115401	43
2099	Cooling Rate and Size Effect on the Microstructure and Mechanical Properties of AlCoCrFeNi High Entropy Alloy. 2009 , 131,	84
2098	10-nm-thick quinary (AlCrTaTiZr)N film as effective diffusion barrier for Cu interconnects at 900 °C. 2009 , 94, 231909	54
2097	Deposition of Multicomponent Alloys on Low-Carbon Steel Using Gas Tungsten Arc Welding (GTAW) Cladding Process. 2009 , 50, 689-694	15
2096	Processing and properties of nanocrystalline CuNiCoZnAlTi high entropy alloys by mechanical alloying. 2010 , 527, 1027-1030	178

2095	Microstructure and properties of age-hardenable Al _x CrFe1.5MnNi0.5 alloys. 2010 , 527, 5818-5825		191
2094	Hot consolidation and mechanical properties of nanocrystalline equiatomic AlFeTiCrZnCu high entropy alloy after mechanical alloying. 2010 , 45, 5158-5163		87
2093	Trefilov and strength physics today. 2010 , 49, 386-396		
2092	High entropy state of orientationally-disordered clusters in Zr-based bulk metallic glass. 2010 , 20, 87-96		5
2091	Microstructure and Mechanical Properties of New AlCo _x CrFeMo0.5Ni High-Entropy Alloys. <i>Advanced Engineering Materials</i> , 2010 , 12, 44-49	3-5	87
2090	Effect of nitrogen flow ratios on the structure and mechanical properties of (TiVCrZrY)N coatings prepared by reactive magnetron sputtering. 2010 , 257, 1361-1367		64
2089	Effect of rare earth Y addition on the microstructure and mechanical properties of high entropy AlCoCrCuNiTi alloys. 2010 , 31, 1599-1602		70
2088	Hydrogen storage properties of multi-principal-component CoFeMnTi _x VyZr _z alloys. 2010 , 35, 9046-9059		124
2087	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys. 2010 , 527, 6975-6979		151
2086	Synthesis and properties of multiprincipal component AlCoCrFeNiSix alloys. 2010 , 527, 7210-7214		127
2085	Characteristics of TiVCrAlZr multi-element nitride films prepared by reactive sputtering. 2010 , 268, 2504-2509		35
2084	Evolution of structure and properties of multi-component (AlCrTaTiZr)O _x films. 2010 , 518, 2732-2737		59
2083	Characteristics of (TiAlCrNbY)C films deposited by reactive magnetron sputtering. 2010 , 204, 2010-2014		48
2082	Thermal stability of AlCoCrCuFeNi high entropy alloy thin films studied by in-situ XRD analysis. 2010 , 204, 1989-1992		104
2081	Microstructure and mechanical performance of new Al0.5CrFe1.5MnNi0.5 high-entropy alloys improved by plasma nitriding. 2010 , 204, 3118-3124		30
2080	Mechanical properties, deformation behaviors and interface adhesion of (AlCrTaTiZr)N _x multi-component coatings. 2010 , 204, 3307-3314		82
2079	Effect of iron content on wear behavior of AlCoCrFexMo0.5Ni high-entropy alloys. 2010 , 268, 653-659		227
2078	Synthesis and Characterization of NiCoFeCrAl3 High Entropy Alloy Coating by Laser Cladding. 2010 , 97-101, 1408-1411		15

2077	Microstructure Characterization of Laser Clad TiVCrAlSi High Entropy Alloy Coating on Ti-6Al-4V Substrate. 2010 , 154-155, 621-625	4
2076	Structures and Characterizations of TiVCr and TiVCrZrY Films Deposited by Magnetron Sputtering under Different Bias Powers. 2010 , 157, K52	29
2075	Ultrathin (AlCrTaTiZr) _N [sub x]/AlCrTaTiZr Bilayer Structures with High Diffusion Resistance for Cu Interconnects. 2010 , 157, G154	10
2074	Mechanical Properties and Structures of High Entropy Alloys and Bulk Metallic Glasses Composites. 2010 , 654-656, 1058-1061	19
2073	Study to Microstructure and Mechanical Properties of Mg Containing High Entropy Alloys. 2010 , 650, 265-271	50
2072	Effect of aging treatment on microstructure and properties of high-entropy Cu _{0.5} CoCrFeNi alloy. 2010 , 18, 1244-1250	121
2071	Refractory high-entropy alloys. 2010 , 18, 1758-1765	1234
2070	Equilibrium phase of high-entropy FeCoNiCrCu _{0.5} alloy at elevated temperature. 2010 , 489, 30-35	73
2069	Effect of temperature on mechanical properties of Al _{0.5} CoCrCuFeNi wrought alloy. 2010 , 490, 160-165	193
2068	Annealing on the structure and properties evolution of the CoCrFeNiCuAl high-entropy alloy. 2010 , 502, 295-299	155
2067	Characterization of nanocrystalline CoCrFeNiTiAl high-entropy solid solution processed by mechanical alloying. 2010 , 495, 33-38	117
2066	Formation of ordered/disordered nanoparticles in FCC high entropy alloys. 2010 , 493, 105-109	130
2065	The effects of secondary elemental Mo or Ti addition in Al _{0.3} CoCrFeNi high-entropy alloy on age hardening at 700°C. 2010 , 495, 55-58	118
2064	Microstructures and compressive properties of multicomponent AlCoCrCuFeNiMox alloys. 2010 , 497, 52-56	81
2063	Effect of aluminum contents on microstructure and properties of Al _x CoCrFeNi alloys. 2010 , 504, S515-S518	155
2062	Electrochemical passive properties of Al _x CoCrFeNi (x=0, 0.25, 0.50, 1.00) alloys in sulfuric acids. 2010 , 52, 1026-1034	204
2061	The effect of molybdenum on the corrosion behaviour of the high-entropy alloys Co _{1.5} CrFeNi _{1.5} Ti _{0.5} Mox in aqueous environments. 2010 , 52, 2571-2581	261
2060	Pitting corrosion of the high-entropy alloy Co _{1.5} CrFeNi _{1.5} Ti _{0.5} Mo _{0.1} in chloride-containing sulphate solutions. 2010 , 52, 3481-3491	152

2059	Microstructure Evolution and Corrosion Behavior of Directionally Solidified FeCoNiCrCu High Entropy Alloy. 2011 , 66-68, 146-149	14
2058	Microstructural Characteristics and Mechanical Behaviors of AlCoCrFeNi High-Entropy Alloys at Ambient and Cryogenic Temperatures. 2011 , 688, 419-425	75
2057	First-Principles Studies on the Component Dependences of High-Entropy Alloys. 2011 , 338, 380-383	8
2056	The Study about Microstructure Characterization of AlCoCrTiNiCu _x High Entropy Alloy System with Multi-Principal Element. 2011 , 399-401, 3-7	1
2055	Thermal Stability and Performance of NbSiTaTiZr High-Entropy Alloy Barrier for Copper Metallization. 2011 , 158, H1161	127
2054	Structural and mechanical properties of multi-element (TiVCrZrHf)N coatings by reactive magnetron sputtering. 2011 , 258, 399-403	59
2053	Microstructure and compressive properties of multiprincipal component AlCoCrFeNiC _x alloys. 2011 , 509, 3476-3480	76
2052	Electrical, magnetic, and Hall properties of Al _x CoCrFeNi high-entropy alloys. 2011 , 509, 1607-1614	266
2051	Ru incorporation on marked enhancement of diffusion resistance of multi-component alloy barrier layers. 2011 , 509, L85-L89	30
2050	Structure and mechanical properties of (TiVCr)N coatings prepared by energetic bombardment sputtering with different nitrogen flow ratios. 2011 , 509, 3141-3147	29
2049	Microstructure and property of AlTiCrFeNiCu high-entropy alloy. 2011 , 509, 5641-5645	28
2048	Microstructure and room temperature properties of a high-entropy TaNbHfZrTi alloy. 2011 , 509, 6043-6048	814
2047	Solid/liquid interaction between a multicomponent FeCrNiCoMnAl high entropy alloy and molten aluminum. 2011 , 509, 8176-8182	16
2046	Evolution of microstructure, hardness, and corrosion properties of high-entropy Al _{0.5} CoCrFeNi alloy. 2011 , 19, 288-294	256
2045	Mechanical properties of Nb ₂₅ Mo ₂₅ Ta ₂₅ W ₂₅ and V ₂₀ Nb ₂₀ Mo ₂₀ Ta ₂₀ W ₂₀ refractory high entropy alloys. 2011 , 19, 698-706	1349
2044	Phase selection, microstructure and properties of laser rapidly solidified FeCoNiCrAl ₂ Si coating. 2011 , 19, 1130-1135	31
2043	Pd ₂₀ Pt ₂₀ Cu ₂₀ Ni ₂₀ P ₂₀ high-entropy alloy as a bulk metallic glass in the centimeter. 2011 , 19, 1546-1554	158
2042	High mixing entropy bulk metallic glasses. 2011 , 357, 3557-3560	110

2041	Effect of aluminium content of Al _x CrFe _{1-x} Ni _{0.5} multiprincipal alloys on microstructure and alloy hardness. 2011 , 15, 107-110	20
2040	Annealing effects on structure and mechanical properties of CoCrFeNiTiAlxhigh-entropy alloys. 2011 , 20, 012009	5
2039	Facile preparation and magnetic study of amorphous Tm-Fe-Co-Ni-Mn multicomponent alloy nanofilm. 2011 , 29, 133-137	20
2038	Thermal stability and oxidation resistance of laser clad TiVCrAlSi high entropy alloy coatings on Ti ₆ Al ₄ V alloy. 2011 , 206, 1389-1395	153
2037	Microstructure and properties of a refractory NbCrMo _{0.5} Ta _{0.5} TiZr alloy. 2011 , 529, 311-320	249
2036	TiFeCoNi oxide thin film [A new composition with extremely low electrical resistivity at room temperature. 2011 , 64, 173-176	7
2035	Micromechanical characterization of casting-induced inhomogeneity in an Al _{0.8} CoCrCuFeNi high-entropy alloy. 2011 , 64, 868-871	57
2034	(AlCrTaTiZr)N/(AlCrTaTiZr)N _{0.7} bilayer structure of high resistance to the interdiffusion of Cu and Si at 900 °C. 2011 , 125, 5-8	12
2033	The microstructure and strengthening mechanism of thermal spray coating Ni _x Co _{0.6} Fe _{0.2} Cr _y Si _z AlTi _{0.2} high-entropy alloys. 2011 , 126, 880-885	82
2032	Effect of annealing treatment on microstructure and properties of high-entropy FeCoNiCrCu _{0.5} alloy. 2011 , 128, 50-56	49
2031	Phase stability in high entropy alloys: Formation of solid-solution phase or amorphous phase. 2011 , 21, 433-446	984
2030	Improving the wear resistance of white cast iron using a new concept [High-entropy microstructure. 2011 , 271, 1623-1628	55
2029	Microstructure and wear behavior of Al _x Co _{1.5} CrFeNi _{1.5} Ti _y high-entropy alloys. 2011 , 59, 6308-6317	786
2028	Explore the possibility of forming fcc high entropy alloys in equal-atomic systems CoFeMnNiM and CoFeMnNiSmM. 2011 , 16, 173-179	9
2027	Effects of Annealing on the Microstructure and Properties of 6FeNiCoCrAlTiSi High-Entropy Alloy Coating Prepared by Laser Cladding. 2011 , 20, 1049-1055	49
2026	Effects of substrate temperature on the structure and mechanical properties of (TiVCrZrHf)N coatings. 2011 , 257, 7709-7713	74
2025	The Property Research on High-entropy Alloy Al _x FeCoNiCuCr Coating by Laser Cladding. 2011 , 12, 303-312	68
2024	Microstructure and properties of 6FeNiCoSiCrAlTi high-entropy alloy coating prepared by laser cladding. 2011 , 257, 2259-2263	139

2023	Structure and properties of (AlCrMnMoNiZrB0.1)N _x coatings prepared by reactive DC sputtering. 2011 , 257, 7172-7178	49
2022	Synthesis and characterization of FeCoNiCrCu high-entropy alloy coating by laser cladding. 2011 , 32, 1910-1915	181
2021	On the superior hot hardness and softening resistance of AlCoCrxFeMo0.5Ni high-entropy alloys. 2011 , 528, 3581-3588	207
2020	Effect of decomposition of the Cr-Fe-Co rich phase of AlCoCrCuFeNi high entropy alloy on magnetic properties. 2011 , 111, 619-22	104
2019	Grain refinement and boundary misorientation transition by annealing in the laser rapid solidified 6FeNiCoCrAlTiSi multicomponent ferrous alloy coating. 2011 , 205, 4068-4072	33
2018	Structural and mechanical properties of multi-element (AlCrMoTaTiZr)N _x coatings by reactive magnetron sputtering. 2011 , 519, 3185-3190	109
2017	Microstructures and mechanical properties of multi-component (AlCrTaTiZr)N _x C _y nanocomposite coatings. 2011 , 519, 4865-4869	19
2016	Effect of Molybdenum on the Pitting Resistance of Co _{1.5} CrFeNi _{1.5} Ti _{0.5} Mo _x Alloys in Chloride Solutions. 2011 , 67, 085002-1-085002-6	6
2015	Study of Solidification Microstructures of Multi-Principal High-Entropy Alloy FeCoNiCrMn by Using Experiments and Simulation. 2011 , 399-401, 1746-1749	3
2014	Study on Corrosion Resistance of High-Entropy Alloys NiCoCrFeMnCuC in Medium Acid Liquid. 2011 , 117-119, 1816-1819	3
2013	Microstructure and Mechanical Properties of MgMnAlZnCu High Entropy Alloy Cooling in Three Conditions. 2011 , 686, 235-241	33
2012	Microstructure and Microsegregation in Directionally Solidified FeCoNiCrAl High Entropy Alloy. 2011 , 189-193, 3840-3843	4
2011	Pitting Corrosion of Co _{1.5} CrFeNi _{1.5} Ti _{0.5} Mo _{0.1} in Chloride-Containing Nitrate Solutions. 2011 , 67, 065003-1-065003-7	
2010	Synthesis and Characterization of High-Entropy Alloy FeCoNiCuCr by Laser Cladding. 2011 , 2011, 1-7	40
2009	High-Entropy Alloys. 2011 , 1-3	3
2008	Thermodynamic Rationalization of the Microstructures of CrFeNi & CuCrFeNi Alloys. 2012 , 585, 3-7	7
2007	Thermally Stable TiVCrZrHf Nitride Films as Diffusion Barriers in Copper Metallization. 2012 , 15, H5	20
2006	Effect of Ti, Al and Cu Addition on Structural Evolution and Phase Constitution of FeCoNi System Equimolar Alloys. 2012 , 724, 335-338	17

2005	Evaluation of Microstructure and Glass Transition Temperature of Al-Cu-Cr-Fe-Ni High-Entropy Alloy by Molecular Dynamics Simulation. 2012 , 579, 398-406	1
2004	Thermochemical Treatment of Metals. 2012 ,	20
2003	Near-constant resistivity in 4.2-360 K in a B2 Al _{2.08} CoCrFeNi. 2012 , 2, 012111	22
2002	Laser cladding of Cu _{0.5} NiAlCoCrFeSi high entropy alloy on AZ91D magnesium substrates for improving wear and corrosion resistance. 2012 , 9, 119-124	4
2001	Solidification Behaviour of TiCuBeCoNi High Entropy Alloys. 2012 , 65, 725-730	44
2000	Nanostructured multi-element (TiZrNbHfTa)N and (TiZrNbHfTa)C hard coatings. 2012 , 211, 117-121	138
1999	Effects of substrate bias on structure and mechanical properties of (TiVCrZrHf)N coatings. 2012 , 207, 293-299	33
1998	Computational Thermodynamics Aided High-Entropy Alloy Design. 2012 , 64, 839-845	203
1997	Absence of long-range chemical ordering in equimolar FeCoCrNi. 2012 , 100, 251907	144
1996	First principles calculation of intermetallic compounds in FeTiCoNiVCrMnCuAl system high entropy alloy. 2012 , 22, 1437-1444	32
1995	Entropy-driven phase stability and slow diffusion kinetics in an Al _{0.5} CoCrCuFeNi high entropy alloy. 2012 , 31, 165-172	191
1994	Analysis of phase formation in multi-component alloys. 2012 , 544, 152-158	62
1993	Alloy Design for High-Entropy Bulk Glassy Alloys. 2012 , 36, 226-234	12
1992	The Low Electrical Resistivity of the High-entropy Alloy Oxide Thin Films. 2012 , 36, 246-252	16
1991	Microstructure and Compressive Properties of NbTiVTaAl _x High Entropy Alloys. 2012 , 36, 292-298	156
1990	Effects of DC Bias on the Microstructure, Residual Stress and Hardness Properties of TiVCrZrTaN Films by Reactive RF Magnetron Sputtering. 2012 , 36, 316-321	5
1989	Processing and Properties of High-Entropy Alloys and Micro- and Nano-Wires. 2012 , 41, 49-60	1
1988	Modeling of high entropy alloys of refractory elements. 2012 , 407, 3285-3287	22

1987	Mechanical performance and nanoindenting deformation of (AlCrTaTiZr)N _{Cy} multi-component coatings co-sputtered with bias. 2012 , 206, 5096-5102		45
1986	Dry sliding wear behavior of laser clad TiVCrAlSi high entropy alloy coatings on Ti6Al4V substrate. 2012 , 41, 338-343		178
1985	Effects of annealing treatment on phase composition and microstructure of CoCrFeNiTiAl _x high-entropy alloys. 2012 , 22, 24-32		145
1984	Electron-irradiation-induced structural change in ZrHfNb alloy. 2012 , 26, 122-130		48
1983	Effects of Al addition on the microstructure and mechanical property of Al _x CoCrFeNi high-entropy alloys. 2012 , 26, 44-51		713
1982	Effects of annealing treatment on properties of CoCrFeNiTiAl _x multi-component alloys. 2012 , 28, 34-39		55
1981	4-nm thick multilayer structure of multi-component (AlCrRuTaTiZr) _{Nx} as robust diffusion barrier for Cu interconnects. 2012 , 515, 4-7		52
1980	Determination of the transition to the high entropy regime for alloys of refractory elements. 2012 , 534, 25-31		31
1979	Microstructure and Magnetic Properties of FeNiCuMnTiSn _x High Entropy Alloys. <i>Advanced Engineering Materials</i> , 2012 , 14, 919-922	3-5	17
1978	Fatigue behavior of Al _{0.5} CoCrCuFeNi high entropy alloys. 2012 , 60, 5723-5734		492
1977	Preparation and characterization of TaNbTiW multi-element alloy films. 2012 , 261, 447-453		22
1976	The effect of addition of Al in ZrO ₂ thin film on its resistance to cracking. 2012 , 207, 355-360		28
1975	Effect of electromagnetic stirring on microstructure and properties of Al _{0.5} CoCrCuFeNi alloy. 2012 , 27, 1129-1134		22
1974	Microstructural control and properties optimization of high-entrop alloys. 2012 , 27, 1169-1178		24
1973	Microstructures and mechanical properties of multiprincipal component CoCrFeNiTi _x alloys. 2012 , 556, 170-174		188
1972	Effect of elemental interaction on microstructure and mechanical properties of FeCoNiCuAl alloys. 2012 , 556, 395-399		51
1971	Superplasticity of AlCoCrCuFeNi High Entropy Alloy. 2012 , 735, 146-151		37
1970	Electrochemical passive properties of Al _x CoCrFeNi (x = 0, 0.25, 0.50, 1.00) high-entropy alloys in sulfuric acids. 2012 ,		1

1969	Evaluation of tribological behavior of Al-Co-Cr-Fe-Ni high entropy alloy using molecular dynamics simulation. 2012 , 34, 325-31	33
1968	Alloy Design and Properties Optimization of High-Entropy Alloys. 2012 , 64, 830-838	390
1967	Oxidation behavior of a refractory NbCrMo _{0.5} Ta _{0.5} TiZr alloy. 2012 , 47, 6522-6534	151
1966	Investigation of the microstructure and properties of doped nanocomposite coatings based on titanium nitride. 2012 , 54, 951-964	1
1965	Morphology Transition from Dendrites to Equiaxed Grains for AlCoCrFeNi High-Entropy Alloys by Copper Mold Casting and Bridgman Solidification. 2012 , 43, 2625-2630	69
1964	Microstructures and Mechanical Performance of Plasma-Nitrided Al _{0.3} CrFe _{1.5} MnNi _{0.5} High-Entropy Alloys. 2012 , 43, 2390-2400	11
1963	Phase Formation in Equiatomic High Entropy Alloys: CALPHAD Approach and Experimental Studies. 2012 , 65, 375-380	29
1962	Microstructure and mechanical properties of multiprincipal component CoCrFeNiMox alloys. 2012 , 70, 63-67	198
1961	Prediction of high-entropy stabilized solid-solution in multi-component alloys. 2012 , 132, 233-238	1129
1960	Age hardening reaction of the Al _{0.3} CrFe _{1.5} MnNi _{0.5} high entropy alloy. 2012 , 36, 854-858	60
1959	Effect of Nb addition on the microstructure and properties of AlCoCrFeNi high-entropy alloy. 2012 , 532, 480-486	303
1958	Alloying behavior in multi-component AlCoCrCuFe and NiCoCrCuFe high entropy alloys. 2012 , 534, 83-89	250
1957	Tensile properties of an AlCrCuNiFeCo high-entropy alloy in as-cast and wrought conditions. 2012 , 533, 107-118	216
1956	Microstructure and properties of AlCrFeCuNix (0.6≤x≤1.4) high-entropy alloys. 2012 , 534, 228-233	69
1955	Microstructure and the properties of FeCoCuNiSnx high entropy alloys. 2012 , 548, 64-68	98
1954	Effect of nitrogen content and substrate bias on mechanical and corrosion properties of high-entropy films (AlCrSiTiZr) _{100-x} N _x . 2012 , 206, 4106-4112	104
1953	Strong amorphization of high-entropy AlBCrSiTi nitride film. 2012 , 520, 2613-2618	56
1952	Effects of substrate bias on the structure and mechanical properties of (Al _{1.5} CrNb _{0.5} Si _{0.5} Ti) _{N_x} coatings. 2012 , 520, 6183-6188	60

1951	Characterization of multi-principal-element (TiZrNbHfTa)N and (TiZrNbHfTa)C coatings for biomedical applications. 2012 , 10, 197-205	109
1950	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy. 2012 , 47, 4062-4074	414
1949	Nature of the interfaces between the constituent phases in the high entropy alloy CoCrCuFeNiAl. 2013 , 134, 193-9	61
1948	Formation and Mechanical Properties of CoNiCuFeCr High-Entropy Alloys Coatings Prepared by Plasma Transferred Arc Cladding Process. 2013 , 33, 979-992	56
1947	Age-hardening of the CoCrFeNiMo _{0.85} high-entropy alloy. 2013 , 81, 92-96	67
1946	Processing effects on the magnetic and mechanical properties of FeCoNiAl _{0.2} Si _{0.2} high entropy alloy. 2013 , 20, 549-555	55
1945	Effect of Zr Addition on Microstructure and Properties of FeCrNiMnCoZr _x and Al _{0.5} FeCrNiMnCoZr _x High Entropy Alloys. 2013 , 66, 305-308	6
1944	Characterization of Oxide Dispersed AlCoCrFe High Entropy Alloy Synthesized by Mechanical Alloying and Spark Plasma Sintering. 2013 , 66, 369-373	47
1943	Thermomagnetic analysis of FeCoCr _x Ni alloys: Magnetic entropy of high-entropy alloys. 2013 , 113, 17A923	73
1942	Peculiarities of structural phase and elastic stress states of superhard TiN-based nanocomposite coatings. 2013 , 16, 73-83	3
1941	Improved Diffusion-Resistant Ability of Multicomponent Nitrides: From Unitary TiN to Senary High-Entropy (TiTaCrZrAlRu)N. 2013 , 65, 1790-1796	20
1940	Phase separation in equiatomic AlCoCrFeNi high-entropy alloy. 2013 , 132, 212-5	222
1939	Optimizing mechanical properties of AlCoCrFeNiTi _x high-entropy alloys by tailoring microstructures. 2013 , 26, 277-284	48
1938	Mechanical properties of the high-entropy alloy Ag _{0.5} CoCrCuFeNi at temperatures of 4.2B00 K. 2013 , 39, 630-632	44
1937	A Successful Synthesis of the CoCrFeNiAl _{0.3} Single-Crystal, High-Entropy Alloy by Bridgman Solidification. 2013 , 65, 1751-1758	69
1936	Microstructure and Corrosion Properties of AlCoCrFeNi High Entropy Alloy Coatings Deposited on AISI 1045 Steel by the Electrospark Process. 2013 , 44, 1767-1778	114
1935	Phase Evolution and Thermal Analysis of Nanocrystalline AlCrCuFeNiZn High Entropy Alloy Produced by Mechanical Alloying. 2013 , 22, 3077-3084	26
1934	Phase Diagrams of High-Entropy Alloy System Al-Co-Cr-Fe-Mo-Ni. 2013 , 65, 1829-1839	23

1933	Effect of Aluminum Content on Microstructure and Mechanical Properties of Al _x CoCrFeMo _{0.5} Ni High-Entropy Alloys. 2013 , 65, 1840-1847	44
1932	Alloy Design Strategies and Future Trends in High-Entropy Alloys. 2013 , 65, 1759-1771	590
1931	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. 2013 , 65, 1848-1858	180
1930	Phase Composition and Superplastic Behavior of a Wrought AlCoCrCuFeNi High-Entropy Alloy. 2013 , 65, 1815-1828	77
1929	Structural morphology and characterization of (AlCrMoTaTi)N coating deposited via magnetron sputtering. 2013 , 282, 789-797	39
1928	Structure and properties of (AlCrMoNiTi) _{Nx} and (AlCrMoZrTi) _{Nx} films by reactive RF sputtering. 2013 , 235, 764-772	29
1927	Phase Evolution and Densification Behavior of Nanocrystalline Multicomponent High Entropy Alloys During Spark Plasma Sintering. 2013 , 65, 1797-1804	77
1926	Alloying behavior, microstructure and mechanical properties in a FeNiCrCo _{0.3} Al _{0.7} high entropy alloy. 2013 , 51, 854-860	157
1925	Intrinsic surface hardening and precipitation kinetics of Al _{0.3} CrFe _{1.5} MnNi _{0.5} multi-component alloy. 2013 , 551, 12-18	32
1924	Mechanical Properties and Stacking Fault Energies of NiFeCrCoMn High-Entropy Alloy. 2013 , 65, 1780-1789	447
1923	Criterion for Sigma Phase Formation in Cr- and V-Containing High-Entropy Alloys. 2013 , 1, 207-212	196
1922	Effects of annealing on microstructure, mechanical and electrical properties of AlCrCuFeMnTi high entropy alloy. 2013 , 28, 1196-1200	7
1921	Physical Properties of High Entropy Alloys. 2013 , 15, 5338-5345	161
1920	Sunflower-like Solidification Microstructure in a Near-eutectic High-entropy Alloy. 2013 , 1, 228-232	44
1919	Chemical state and phase structure of (TaNbTiW)N films prepared by combined magnetron sputtering and PBI. 2013 , 280, 388-393	10
1918	Structural stability of NiCoFeCrAl _x high-entropy alloy from ab initio theory. 2013 , 88,	125
1917	Progress in Advanced Structural and Functional Materials Design. 2013 ,	5
1916	Fabrication and properties of Ti(C,N)-based cermets with multi-component AlCoCrFeNi high-entropy alloys binder. 2013 , 113, 80-82	60

1915	Structure and hydrogen storage properties of a high entropy ZrTiVCrFeNi alloy synthesized using Laser Engineered Net Shaping (LENS). 2013 , 38, 12180-12189	131
1914	Atomic-scale intermixing, amorphization and microstructural development in a multicomponent system subjected to surface severe plastic deformation. 2013 , 61, 1254-1265	19
1913	Microstructure and Tensile Behavior of Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ (at.%) High-Entropy Alloy. 2013 , 65, 1805-1814	43
1912	Prediction of A2 to B2 Phase Transition in the High-Entropy Alloy Mo-Nb-Ta-W. 2013 , 65, 1772-1779	73
1911	AlCoCrCuFeNi high entropy alloy cluster growth and annealing on silicon: A classical molecular dynamics simulation study. 2013 , 285, 810-816	64
1910	Deposition and characterization of multi-principal-element (CuSiTiYZr)C coatings. 2013 , 284, 671-678	32
1909	Morphology, structure and composition of precipitates in Al _{0.3} CoCrCu _{0.5} FeNi high-entropy alloy. 2013 , 32, 329-336	64
1908	Phase formation in mechanically alloyed Al _x CoCrCuFeNi (x=0.45, 1, 2.5, 5 mol) high entropy alloys. 2013 , 32, 119-126	109
1907	Local Atomic Structure of a High-Entropy Alloy: An X-Ray and Neutron Scattering Study. 2013 , 44, 1994-1997	121
1906	Microstructure and properties of Al ₂ CrFeCoCuTiNi _x high-entropy alloys prepared by laser cladding. 2013 , 553, 216-220	143
1905	Effect of W and Zr on structural, thermal and magnetic properties of AlCoCrCuFeNi high entropy alloy. 2013 , 556, 79-85	47
1904	Microstructure and properties of AlCrFeNiCoCu high entropy alloy prepared by powder metallurgy. 2013 , 555, 246-249	73
1903	Structure and properties of two AlCrNbSiTi high-entropy nitride coatings. 2013 , 221, 118-123	83
1902	Oxidation resistance and structural evolution of (TiVCrZrHf)N coatings. 2013 , 544, 580-587	18
1901	Tribological properties of AlCoCrFeNiCu high-entropy alloy in hydrogen peroxide solution and in oil lubricant. 2013 , 297, 1045-1051	35
1900	Significant hardening due to the formation of a sigma phase matrix in a high entropy alloy. 2013 , 33, 81-86	112
1899	Relative effects of enthalpy and entropy on the phase stability of equiatomic high-entropy alloys. 2013 , 61, 2628-2638	774
1898	MeV electron-irradiation-induced structural change in the bcc phase of ZrHfNb alloy with an approximately equiatomic ratio. 2013 , 38, 70-79	44

1897	Effect of the Annealing Treatment on the Microstructure, Microhardness and Corrosion Behaviour of Al _{0.3} CrFe _{1.5} MnNi _{0.5} High-Entropy Alloys. 2013 , 748, 79-85	2
1896	Processing, microstructure and properties of Al _{0.6} CoNiFeTi _{0.4} high entropy alloy with nanoscale twins. 2013 , 565, 439-444	35
1895	Alloying behavior and deformation twinning in a CoNiFeCrAl _{0.6} Ti _{0.4} high entropy alloy processed by spark plasma sintering. 2013 , 553, 316-323	87
1894	Structure and properties of FeCoNiCrCu _{0.5} Al _x high-entropy alloy. 2013 , 23, 735-741	43
1893	Microstructural characterization and mechanical properties of an Al _{0.5} CoCrFeCuNi high-entropy alloy in as-cast and heat-treated/quenched conditions. 2013 , 567, 14-20	53
1892	Solid solution coating of (TiVCrZrHf)N with unusual structural evolution. 2013 , 217, 84-87	16
1891	Structure and mechanical properties of multi-element (AlCrMnMoNiZr) _{Nx} coatings by reactive magnetron sputtering. 2013 , 560, 171-176	49
1890	Grain growth and the HallPetch relationship in a high-entropy FeCrNiCoMn alloy. 2013 , 68, 526-529	472
1889	Characteristics of multi-element (ZrTaNbTiW)N films prepared by magnetron sputtering and plasma based ion implantation. 2013 , 301, 29-35	19
1888	Dense and smooth amorphous films of multicomponent FeCoNiCuVZrAl high-entropy alloy deposited by direct current magnetron sputtering. 2013 , 46, 675-679	58
1887	Incipient plasticity and dislocation nucleation of FeCoCrNiMn high-entropy alloy. 2013 , 61, 2993-3001	213
1886	Mechanical properties of low-density, refractory multi-principal element alloys of the CrNbTiVZr system. 2013 , 565, 51-62	299
1885	Low-density, refractory multi-principal element alloys of the CrNbTiVZr system: Microstructure and phase analysis. 2013 , 61, 1545-1557	356
1884	Ab initio investigation of high-entropy alloys of 3d elements. 2013 , 87,	115
1883	Effect of annealing treatment on microstructures and mechanical properties of FeCoNiCuAl high entropy alloys. 2013 , 572, 30-35	57
1882	Microstructure and mechanical properties of multi-component AlCrFeNiMox high-entropy alloys. 2013 , 573, 96-101	160
1881	Recent Progress in High-Entropy Alloys. 2013 , 631-632, 227-232	18
1880	Performances of hybrid high-entropy high-Cr cast irons during sliding wear and air-jet solid-particle erosion. 2013 , 301, 390-397	21

1879	High entropy Ti ₂₀ Zr ₂₀ Cu ₂₀ Ni ₂₀ Be ₂₀ bulk metallic glass. 2013 , 364, 9-12	116
1878	In vitro and in vivo studies on biodegradable CaMgZnSrYb high-entropy bulk metallic glass. 2013 , 9, 8561-73	117
1877	Thermodynamic Analysis for Microstructure of High-Entropy Alloys. 2013 , 42, 232-237	10
1876	Sluggish diffusion in CoCrFeMnNi high-entropy alloys. 2013 , 61, 4887-4897	1049
1875	Tensile properties of high- and medium-entropy alloys. 2013 , 39, 74-78	648
1874	Processing and Consolidation of Nanocrystalline Cu-Zn-Ti-Fe-Cr High-Entropy Alloys via Mechanical Alloying. 2013 , 44, 4532-4541	41
1873	Anomalous solidification microstructures in Co-free Al _x CrCuFeNi ₂ high-entropy alloys. 2013 , 557, 77-81	155
1872	High-entropy alloys with high saturation magnetization, electrical resistivity, and malleability. 2013 , 3, 1455	343
1871	The influences of temperature and microstructure on the tensile properties of a CoCrFeMnNi high-entropy alloy. 2013 , 61, 5743-5755	1612
1870	Formation condition of solid solution type high-entropy alloy. 2013 , 23, 991-995	64
1869	More than entropy in high-entropy alloys: Forming solid solutions or amorphous phase. 2013 , 41, 96-103	363
1868	Investigation of phases in Al ₂₃ Co ₁₅ Cr ₂₃ Cu ₈ Fe ₁₅ Ni ₁₆ and Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ high entropy alloys and comparison with equilibrium phases predicted by Thermo-Calc. 2013 , 552, 430-436	90
1867	Enhanced hardness and fracture toughness of the laser-solidified FeCoNiCrCuTiMoAlSiB _{0.5} high-entropy alloy by martensite strengthening. 2013 , 69, 342-345	94
1866	On microstructure and mechanical performance of AlCoCrFeMo _{0.5} Ni _x high-entropy alloys. 2013 , 32, 401-407	70
1865	Microstructure and tensile properties of FeMnNiCuCoSn _x high entropy alloys. 2013 , 44, 223-227	46
1864	Fabrication and properties of nanocrystalline Co _{0.5} FeNiCrTi _{0.5} high entropy alloy by MABPS technique. 2013 , 44, 535-539	101
1863	Atomic Modeling and Simulation of AlCoCrCuFeNi Multi-Principal-Element Alloy. 2013 , 749, 479-483	3
1862	Preparation of CoCrFeNiCuMnSix High Entropy Alloys and their Microstructure and Properties. 2013 , 750-752, 615-618	1

1861	Microstructures and Mechanical Properties of TiCrZrNbN _x Alloy Nitride Thin Films. 2013 , 15, 5012-5021	19
1860	Evolution of Microstructures and Properties of the Al _x CrCuFeNi ₂ High-Entropy Alloys. 2013 , 745-746, 706-714	9
1859	Microstructure and Electrochemical Performances of Al _x FeCoNiCr(B) High Entropy Alloys. 2013 , 745-746, 728-733	1
1858	Effects of substrate bias on structure and mechanical properties of AlCrTiWNbTa coatings. 2013 , 29, 778-782	14
1857	Tailoring Microstructures and Mechanical Properties of AlCoCrFeNiTi _{0.3} High-Entropy Alloys by Heat Treatment. 2013 , 745-746, 768-774	4
1856	High Temperature Oxidation Behaviour of AlCuTiFeNiCr High-Entropy Alloy. 2013 , 652-654, 1115-1118	13
1855	Atomic Structure Modeling of Multi-Principal-Element Alloys by the Principle of Maximum Entropy. 2013 , 15, 5536-5548	45
1854	Microstructure and Properties of Alloys with Equal Atomic Principal Components. 2013 , 765-767, 3143-3146	
1853	Searching for Next Single-Phase High-Entropy Alloy Compositions. 2013 , 15, 4504-4519	214
1852	Microstructure and Properties of MoFeCrTiW High-Entropy Alloy Coating Prepared by Laser Cladding. 2013 , 820, 63-66	7
1851	A Novel High-Entropy Alloy AlMgZnSnPbCuMnNi with Low Free Corrosion Potential. 2013 , 327, 103-107	6
1850	Microstructure and Properties of Multi-Component Al _x CoCrFeNiTi _{0.5} High-Entropy Alloys. 2013 , 745-746, 775-780	10
1849	Microstructure and Tensile Properties of Al _{0.5} CoCrCuFeNi High-Entropy Alloy. 2013 , 456, 494-497	4
1848	Microstructure of Laser Re-Melted AlCoCrCuFeNi High Entropy Alloy Coatings Produced by Plasma Spraying. 2013 , 15, 2833-2845	65
1847	High Mixing Entropy Alloys Design with High Anticorrosion and Wear-Resistance Properties. 2013 , 815, 19-24	2
1846	Research on Electromagnetic Properties of High Entropy Alloys. 2013 , 837, 277-282	1
1845	Superior Oxidation Resistance of (Al _{0.34} Cr _{0.22} Nb _{0.11} Si _{0.11} Ti _{0.22}) ₅₀ N ₅₀ High-Entropy Nitride. 2013 , 160, C531-C535	54
1844	Paracrystalline property of high-entropy alloys. 2013 , 3, 102105	6

1843	Al _{0.5} TiZrPdCuNi High-Entropy (H-E) Alloy Developed through Ti ₂₀ Zr ₂₀ Pd ₂₀ Cu ₂₀ Ni ₂₀ H-E Glassy Alloy Comprising Inter-Transition Metals. 2013 , 54, 776-782	22
1842	Microstructure and hardness of FeCrNiCoMn high-entropy alloy coating prepared by laser cladding with pre-alloyed gas atomized powder. 2013 ,	2
1841	Al _{1.3} FeCoNiCuCr HEA coatings produced by laser cladding. 2013 ,	
1840	Multicomponent and High Entropy Alloys. 2014 , 16, 4749-4768	290
1839	Microstructure and Properties of Aluminum-Containing Refractory High-Entropy Alloys. 2014 , 66, 2030-2042	206
1838	Equal-Channel Angular Extrusion of a Low-Density High-Entropy Alloy Produced by High-Energy Cryogenic Mechanical Alloying. 2014 , 66, 2021-2029	37
1837	Composition Dependence of Phase Stability, Deformation Mechanisms, and Mechanical Properties of the CoCrFeMnNi High-Entropy Alloy System. 2014 , 66, 1993-2001	116
1836	Progress in High-Entropy Alloys. 2014 , 66, 1964-1965	23
1835	New TiC/Co _{1.5} CrFeNi _{1.5} Ti _{0.5} Cermet with Slow TiC Coarsening During Sintering. 2014 , 66, 2050-2056	22
1834	Microstructure and the Properties of AlFeCoNiCrSn _x High-Entropy Alloys. 2014 , 39, 8247-8251	7
1833	High-Entropy Alloys with a Hexagonal Close-Packed Structure Designed by Equi-Atomic Alloy Strategy and Binary Phase Diagrams. 2014 , 66, 1984-1992	210
1832	3D ChemiSTEM Tomography of Nano-scale Precipitates in High Entropy Alloys. 2014 , 20, 764-765	1
1831	Guidelines in predicting phase formation of high-entropy alloys. 2014 , 4, 57-62	171
1830	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy. 2014 , 371, 60-68	125
1829	First-Principle Studies Al-Fe-Ti-Cr-Zn-Cu High Entropy Solid Solutions with Pressure-Induced. 2014 , 809-810, 333-347	2
1828	Structure and Properties of Refractory High-Entropy Alloys. 2014 , 1093-1097	1
1827	Effect of Titanium Content on Microstructure and Properties of FeWCrMnCoCuTi _x High Entropy Alloy Coating Prepared by Laser Cladding. 2014 , 563, 25-29	1
1826	Electrical and Magnetic Properties of Selected Fe-Based High Entropy Alloys. 2014 , 126, 999-1004	4

1825	Exploration and Development of High Entropy Alloys for Structural Applications. 2014 , 16, 494-525	527
1824	Nanomechanical Properties and Deformation Behaviors of Multi-Component (AlCrTaTiZr) _{Nx} Si _y High-Entropy Coatings. 2014 , 16, 405-417	14
1823	Investigation on relationship between intermediate temperature embrittlement and intergranular precipitation in AlCoCrCuFeNi alloy. 2014 , 27, 199-201	2
1822	Application Prospects and Microstructural Features in Laser-Induced Rapidly Solidified High-Entropy Alloys. 2014 , 66, 2057-2066	26
1821	Thermal Analysis and Nanoindentation Studies on Nanocrystalline AlCrNiFeZn High Entropy Alloy. 2014 , 6, 641-647	13
1820	Laser cladding of high-entropy alloy on H13 steel. 2014 , 33, 727-730	26
1819	In-situ neutron diffraction study of deformation behavior of a multi-component high-entropy alloy. 2014 , 104, 051910	107
1818	Laser cladding of FeCoNiCrAlCu _x Si _{0.5} high entropy alloys on AZ31 Mg alloy substrates. 2014 , 18, S2-624-S2-628	
1817	Characterization of Nanocrystalline AlCoCrCuNiFeZn High Entropy Alloy Produced by Mechanical Alloying. 2014 , 5, 1020-1026	20
1816	Microstructure and Properties of Al _{0.4} FeCrNiCo _{1.5} Ti _{0.3} High Entropy Alloy Prepared by MA-HP Technique. 2014 , 43, 2948-2952	10
1815	Solid solution or amorphous phase formation in TiZr-based ternary to quinary multi-principal-element films. 2014 , 24, 305-312	22
1814	Mechanochemical synthesis and heating-induced transformations of a high-entropy Cr-Fe-Co-Ni-Al-Ti alloy. 2014 , 50, 1202-1211	14
1813	Corrosion properties of Al _x CoCrFeNiTi _{0.5} high entropy alloys in 0.5M H ₂ SO ₄ aqueous solution. 2014 , 18, S4-756-S4-760	13
1812	Microstructural Characterization and Mechanical Properties of Laser Deposited High Entropy Alloys. 2014 , 783-786, 2370-2375	
1811	Microstructure and Mechanical Properties of High-Entropy Alloys CoCrFeNiAl by Welding. 2014 , 936, 1635-1640	8
1810	First-Principle Studies of a High Entropy Solid Solution of AlCoCrCuFeNi _x with Different Mole Fractions of Ni. 2014 , 809-810, 419-425	
1809	High Performance Materials by Laser Deposition. 2014 , 783-786, 2365-2369	
1808	Microstructure and mechanical properties of ZrNbMoHfV high entropy alloy. 2014 , 18, S4-766-S4-769	3

1807	Effect of sputtering parameters on (AlCrMnMoNiZr)N films. 2014 , 30, 152-158	15
1806	Effect of pre-oxidation on increasing resistance of FeAlNiCrCoMn high entropy alloys to molten Al attack. 2014 , 49, 124-129	9
1805	Mechanical Behavior of Novel Suction Cast Ti-Cu-Fe-Co-Ni High Entropy Alloys. 2014 , 790-791, 503-508	20
1804	Alloying and Processing Effects on the Aqueous Corrosion Behavior of High-Entropy Alloys. 2014 , 16, 895-911	119
1803	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys. 2014 , 16, 870-884	90
1802	Synthesis of Al _{0.5} CoCrCuFeNi and Al _{0.5} CoCrFeMnNi High-Entropy Alloys by Laser Melting. 2014 , 45, 1603-1607	8
1801	The Phase Competition and Stability of High-Entropy Alloys. 2014 , 66, 1973-1983	47
1800	Corrosion and Serration Behaviors of TiZr _{0.5} NbCr _{0.5} VxMoy High Entropy Alloys in Aqueous Environments. 2014 , 4, 597-608	43
1799	Microstructure and Mechanical Tests of AlNiMnZnCu High Entropy Alloys. 2014 , 1036, 95-100	
1798	Effect of Ti content on structure and properties of Al ₂ CrFeNiCoCuTix high-entropy alloy coatings. 2014 , 585, 282-286	115
1797	Thermally stable laser cladded CoCrCuFeNi high-entropy alloy coating with low stacking fault energy. 2014 , 600, 210-214	87
1796	Microstructure and oxidation behavior of new refractory high entropy alloys. 2014 , 583, 162-169	193
1795	Microstructure and Tribological Properties of AlCoCrFeNiTi _{0.5} High-Entropy Alloy in Hydrogen Peroxide Solution. 2014 , 45, 201-207	44
1794	Age Hardening of the Al _{0.5} CoCrNiTi _{0.5} High-Entropy Alloy. 2014 , 45, 191-195	21
1793	On the Solidification and Phase Stability of a Co-Cr-Fe-Ni-Ti High-Entropy Alloy. 2014 , 45, 184-190	49
1792	Novel cermet material of WC/multi-element alloy. 2014 , 43, 200-204	66
1791	Microstructure and magnetic properties of mechanically alloyed FeSiBAlNi (Nb) high entropy alloys. 2014 , 355, 58-64	62
1790	Mechanical alloying synthesis and spark plasma sintering consolidation of CoCrFeNiAl high-entropy alloy. 2014 , 589, 61-66	159

1789	High-entropy equiatomic AlCrFeCoNiCu alloy: Hypotheses and experimental data. 2014 , 59, 211-223	16
1788	Mechanical alloying and spark plasma sintering of CoCrFeNiMnAl high-entropy alloy. 2014 , 25, 1334-1338	77
1787	Microstructure of a near-equimolar refractory high-entropy alloy. 2014 , 126, 285-287	96
1786	Effects of electro-negativity on the stability of topologically close-packed phase in high entropy alloys. 2014 , 52, 105-109	137
1785	Ab initio design of elastically isotropic TiZrNbMoV high-entropy alloys. 2014 , 599, 19-25	96
1784	A senary TiZrHfCuNiBe high entropy bulk metallic glass with large glass-forming ability. 2014 , 125, 151-153	80
1783	Nanoindentation deformation of a bi-phase AlCrCuFeNi ₂ alloy. 2014 , 608, 49-53	19
1782	Summary report of CALPHAD XLII San Sebastian, Spain, 2013. 2014 , 45, 62-117	2
1781	Effect of vanadium addition on the microstructure and properties of AlCoCrFeNi high entropy alloy. 2014 , 57, 67-72	159
1780	Microstructures and properties of high-entropy alloys. 2014 , 61, 1-93	3296
1779	Microstructure and mechanical properties of twinned Al _{0.5} CrFeNiCo _{0.3} Co _{0.2} high entropy alloy processed by mechanical alloying and spark plasma sintering. 2014 , 54, 973-979	139
1778	Phase stability and tensile properties of Co-free Al _{0.5} CrCuFeNi ₂ high-entropy alloys. 2014 , 584, 530-537	85
1777	Alloying, thermal stability and strengthening in spark plasma sintered Al _x CoCrCuFeNi high entropy alloys. 2014 , 583, 419-426	146
1776	Hybrid Monte Carlo/Molecular Dynamics Simulation of a Refractory Metal High Entropy Alloy. 2014 , 45, 196-200	110
1775	Irradiation Resistance of Multicomponent Alloys. 2014 , 45, 180-183	112
1774	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. 2014 , 62, 105-113	687
1773	Thermal properties and structural characterizations of new types of phase change material: Anhydrous and hydrated palmitic acid/camphene solid dispersions. 2014 , 575, 81-89	10
1772	Effect of Cr, Mo and Ti on the microstructure and Vickers hardness of multi-component systems. 2014 , 615, S638-S644	11

1771	Early high-temperature oxidation behavior of Ti(C,N)-based cermets with multi-component AlCoCrFeNi high-entropy alloy binder. 2014 , 44, 35-41	63
1770	Effect of Nb addition on the structure and mechanical behaviors of CoCrCuFeNi high-entropy alloy coatings. 2014 , 240, 184-190	107
1769	Interfacial reactions and characterization of (TiVCrZrHf)N thin films during thermal treatment. 2014 , 240, 160-166	9
1768	Effect of Mn and V on structure and mechanical properties of high-entropy alloys based on CoCrFeNi system. 2014 , 591, 11-21	324
1767	Size-dependent plasticity in an Nb ₂₅ Mo ₂₅ Ta ₂₅ W ₂₅ refractory high-entropy alloy. 2014 , 65, 85-97	288
1766	On the formation of disordered solid solutions in multi-component alloys. 2014 , 587, 113-119	116
1765	An understanding of high entropy alloys from phase diagram calculations. 2014 , 45, 1-10	215
1764	Microstructure and texture evolution during annealing of equiatomic CoCrFeMnNi high-entropy alloy. 2014 , 587, 544-552	321
1763	Annealing effects on the microstructure and properties of bulk high-entropy CoCrFeNiTi _{0.5} alloy casting ingot. 2014 , 44, 37-43	86
1762	Solidification behaviour in laser cladding of AlCoCrCuFeNi high-entropy alloy on magnesium substrates. 2014 , 587, 588-593	122
1761	Phases, microstructure and mechanical properties of Al _x CoCrFeNi high-entropy alloys at elevated temperatures. 2014 , 589, 143-152	416
1760	Recovery, recrystallization, grain growth and phase stability of a family of FCC-structured multi-component equiatomic solid solution alloys. 2014 , 46, 131-140	507
1759	Effects of substrate temperature and carbon content on the structure and properties of (CrCuNbTiY)C multicomponent coatings. 2014 , 258, 996-1005	20
1758	Microstructure and Electrochemical Properties of CoCrCuFeNiNb High-Entropy Alloys Coatings. 2014 , 27, 1031-1037	23
1757	Structure and properties of high-entropy CoCrCuFeNiSn _x alloys. 2014 , 115, 692-696	8
1756	Solid-solution hardening of a high-Entropy AlTiVCrNbMo alloy. 2014 , 2014, 285-292	16
1755	High entropy alloy mediated growth of graphene. 2014 , 16, 6187-6194	7
1754	Discovery of a superconducting high-entropy alloy. 2014 , 113, 107001	239

1753	Stability and structure prediction of cubic phase in as cast high entropy alloys. 2014 , 30, 363-369	24
1752	Molecular dynamics simulations of clusters and thin film growth in the context of plasma sputtering deposition. 2014 , 47, 224004	30
1751	Effect of Aging Temperature on Microstructure and Hardness of CoCrFeNiTi0.5 High Entropy Alloy. 2014 , 789, 48-53	2
1750	Effects of silicon content on the structure and properties of (AlCrMoTaTi)N coatings by reactive magnetron sputtering. 2014 , 616, 646-651	23
1749	Sinter ageing of equiatomic Al ₂₀ Co ₂₀ Cu ₂₀ Zn ₂₀ Ni ₂₀ high entropy alloy via mechanical alloying. 2014 , 617, 211-218	42
1748	A fracture-resistant high-entropy alloy for cryogenic applications. 2014 , 345, 1153-8	2700
1747	Influence of Ti addition and sintering method on microstructure and mechanical behavior of a medium-entropy Al _{0.6} CoNiFe alloy. 2014 , 619, 137-145	57
1746	Microstructure, physical and chemical properties of nanostructured (TiHfZrNb)N coatings under different deposition conditions. 2014 , 147, 1079-1091	117
1745	On the entropic stabilisation of an Al _{0.5} CrFeCoNiCu high entropy alloy. 2014 , 54, 148-153	31
1744	Influence of Al and Cu elements on the microstructure and properties of (FeCrNiCo)Al _x Cu _y high-entropy alloys. 2014 , 614, 203-210	44
1743	Steady state flow of the FeCoNiCrMn high entropy alloy at elevated temperatures. 2014 , 55, 9-14	220
1742	Phase equilibria of an Al _{0.5} CrFeCoNiCu High Entropy Alloy. 2014 , 615, 214-221	39
1741	Phase Stability of Low-Density, Multiprincipal Component Alloys Containing Aluminum, Magnesium, and Lithium. 2014 , 66, 2009-2020	109
1740	Hot deformation behaviour and microstructure control in AlCrCuNiFeCo high entropy alloy. 2014 , 55, 145-153	65
1739	Microstructural evolution and corrosion behavior of Al ₂₅ Ti ₂₅ Ga ₂₅ Be ₂₅ equi-molar composition alloy. 2014 , 65, 691-695	13
1738	Experimental and theoretical study of Ti ₂₀ Zr ₂₀ Hf ₂₀ Nb ₂₀ X ₂₀ (X=V or Cr) refractory high-entropy alloys. 2014 , 47, 131-138	157
1737	Damping behavior of Al _x CoCrFeNi high-entropy alloys by a dynamic mechanical analyzer. 2014 , 604, 331-339	61
1736	Segregation and migration of species in the CrCoFeNi high entropy alloy. 2014 , 599, 179-182	90

1735	New structure in refractory high-entropy alloys. 2014 , 132, 123-125	76
1734	Effect of aluminum on the microstructure and properties of two refractory high-entropy alloys. 2014 , 68, 214-228	397
1733	Designing Radiation Resistance in Materials for Fusion Energy. 2014 , 44, 241-267	368
1732	Effect of Cr on Microstructure and Properties of a Series of AlTiCr _x FeCoNiCu High-Entropy Alloys. 2014 , 23, 1197-1203	18
1731	Phase Selection in High-Entropy Alloys: From Nonequilibrium to Equilibrium. 2014 , 66, 1966-1972	109
1730	Synthesis and Characterization of CrCuFeMnMo _{0.5} Ti Multicomponent Alloy Bulks by Powder Metallurgy. 2014 , 66, 2043-2049	3
1729	High-Entropy Metallic Glasses. 2014 , 66, 2067-2077	96
1728	Controllable electrochemical synthesis and magnetic behaviors of MgMnFeCoNiCd alloy films. 2014 , 598, 161-165	21
1727	References. 2014 , 171-190	
1726	In situ TEM imaging of CaCO ₃ nucleation reveals coexistence of direct and indirect pathways. 2014 , 345, 1158-62	461
1725	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). 2014 , 66, 2002-2008	62
1724	Temperature dependence of the mechanical properties of equiatomic solid solution alloys with face-centered cubic crystal structures. 2014 , 81, 428-441	901
1723	High-Entropy Alloys: A Critical Review. 2014 , 2, 107-123	1431
1722	Microstructural and magnetic behavior of an equiatomic NiCoAlFe alloy prepared by mechanical alloying. 2014 , 615, S317-S323	10
1721	Effect of Cr addition on the alloying behavior, microstructure and mechanical properties of twinned CoFeNiAl _{0.5} Ti _{0.5} alloy. 2014 , 597, 204-211	35
1720	Microstructure and hydrogen storage properties of a TiZrNbMoV high entropy alloy synthesized using Laser Engineered Net Shaping (LENS). 2014 , 39, 9904-9910	133
1719	Low resistivity FeCoB _{1-x} Nb amorphous thin film as a copper barrier. 2014 , 586, S348-S352	9
1718	Microstructure characterization of Al _x Co ₁ Cr ₁ Cu ₁ Fe ₁ Ni ₁ (x=0 and 2.5) high-entropy alloy films. 2014 , 609, 137-142	58

1717	Microstructural Evolution and Hardness of CoxCrCuFeNi High-Entropy Alloys. 2014 , 789, 79-83	2
1716	Superior high tensile elongation of a single-crystal CoCrFeNiAl _{0.3} high-entropy alloy by Bridgman solidification. 2014 , 54, 104-109	113
1715	Electronic and thermodynamic criteria for the occurrence of high entropy alloys in metallic systems. 2014 , 75, 297-306	202
1714	A geometrical parameter for the formation of disordered solid solutions in multi-component alloys. 2014 , 53, 112-119	105
1713	A refractory Hf ₂₅ Nb ₂₅ Ti ₂₅ Zr ₂₅ high-entropy alloy with excellent structural stability and tensile properties. 2014 , 130, 277-280	260
1712	Microstructural evolution after thermomechanical processing in an equiatomic, single-phase CoCrFeMnNi high-entropy alloy with special focus on twin boundaries. 2014 , 54, 39-48	191
1711	A novel, single phase, non-equiatomic FeMnNiCoCr high-entropy alloy with exceptional phase stability and tensile ductility. 2014 , 72-73, 5-8	392
1710	Alloy Designs of High-Entropy Crystalline and Bulk Glassy Alloys by Evaluating Mixing Enthalpy and Delta Parameter for Quinary to Decimal Equi-Atomic Alloys. 2014 , 55, 165-170	25
1709	AlMnCrCuFeNi Multicomponent Alloy with Superior Hardness and Corrosion Resistance. 2014 , 1079-1086	
1708	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. 2015 , 30, 2804-2815	87
1707	Nonisothermal crystallization kinetics, fragility and thermodynamics of Ti ₂₀ Zr ₂₀ Cu ₂₀ Ni ₂₀ Be ₂₀ high entropy bulk metallic glass. 2015 , 30, 2772-2782	24
1706	Generalized machine learning technique for automatic phase attribution in time variant high-throughput experimental studies. 2015 , 30, 879-889	27
1705	Structure and stability of as cast AlCrFeMnNiTi high entropy alloy. 2015 , 31, 1153-1158	4
1704	From High-Entropy Alloys to High-Entropy Steels. 2015 , 86, 1127-1138	114
1703	Nanoindentation for Fracture Toughness of Coatings. 2015 , 140-195	4
1702	Atomic short-range order and incipient long-range order in high-entropy alloys. 2015 , 91,	90
1701	Complex magnetism of Ho-Dy-Y-Gd-Tb hexagonal high-entropy alloy. 2015 , 92,	51
1700	Tunable magnetocaloric effect in transition metal alloys. 2015 , 5, 15755	50

1699	Investigations of quaternary interdiffusion in a constituent system of high entropy alloys. 2015 , 5, 097162	50
1698	Ab initio-predicted micro-mechanical performance of refractory high-entropy alloys. 2015 , 5, 12334	33
1697	Predicting the solid solubility limit in high-entropy alloys using the molecular orbital approach. 2015 , 118, 194902	13
1696	Alloy Designs for High-Entropy Alloys, Bulk Metallic Glasses and High-Entropy Bulk Metallic Glasses. 2015 , 79, 157-168	6
1695	The Thermal Stability and Strength of Highly Alloyed Ni ₃ Al. 2015 , 56, 1905-1910	14
1694	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy, and High-Entropy Alloys. 2015 , 5, 16997	81
1693	Phase stability and magnetic behavior of FeCrCoNiGe high-entropy alloy. 2015 , 107, 251906	32
1692	Atomic scale modelling of hexagonal structured metallic fission product alloys. 2015 , 2, 140292	12
1691	Effect of minor B addition on microstructure and properties of AlCoCrFeNi multi-component alloy. 2015 , 25, 2958-2964	32
1690	Oxidation Behavior of Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ , Al ₂₃ Co ₁₅ Cr ₂₃ Cu ₈ Fe ₁₅ Ni ₁₅ , and Al ₁₇ Co ₁₇ Cr ₁₇ Cu ₁₇ Fe ₁₇ Ni ₁₇ Compositionally Complex Alloys (High-Entropy Alloys) at Elevated Temperatures in Air. <i>Advanced Engineering Materials</i> , 2015 , 17, 1134-1141	3-5 40
1689	Specific Features of the Phase Composition and Structure of a High-Strength Multi-Component Fe ₄₀ Mo ₁₀ Cr ₁₀ Si ₁₀ Mn ₁₀ Steel Synthesized via Laser Remelting. <i>Advanced Engineering Materials</i> , 2015 , 17, 1504-1510	3-5 3
1688	Microwave-Assisted Preparation of High Entropy Alloys. 2015 , 3, 182-197	23
1687	Irregular Homogeneity Domains in Ternary Intermetallic Systems. 2015 , 5, 1570-1589	5
1686	Ab Initio Predicted Alloying Effects on the Elastic Properties of Al _x Hf _{1-x} NbTaTiZr High Entropy Alloys. 2015 , 5, 366-377	10
1685	Microstructure and Wear Behavior of CoCrFeMnNbNi High-Entropy Alloy Coating by TIG Cladding. 2015 , 2015, 1-5	19
1684	The Microstructures and Electrical Resistivity of (Al, Cr, Ti)FeCoNiOx High-Entropy Alloy Oxide Thin Films. 2015 , 2015, 1-6	16
1683	A Study of Thin Film Resistors Prepared Using Ni-Cr-Si-Al-Ta High Entropy Alloy. 2015 , 2015, 1-7	6
1682	Microstructure of Rapidly Solidified Fe-M-Si-B (M=Cu, Ag, Sn) Immiscible Alloys. 2015 , 64, 175-182	8

1681	The microstructure and mechanical behavior of modern high temperature alloys. 2015 , 3, 1-20	16
1680	Structure and Properties of Some CoCrFeNi-Based High Entropy Alloys. 2015 , 1147-1155	2
1679	Internal Crystallisation Method to Produce Oxide Fibres and Heat Resistant Composites. 2015 ,	1
1678	Accelerated exploration of multi-principal element alloys with solid solution phases. 2015 , 6, 6529	440
1677	Hexagonal High-entropy Alloys. 2015 , 3, 1-6	180
1676	Nitriding of a high entropy FeNiMnAlCr alloy. 2015 , 645, 376-381	44
1675	Effect of aluminum on fine structure and distribution of chemical elements in high-entropy alloys Al x FeNiCoCuCr. 2015 , 116, 439-444	7
1674	Microstructure and Mechanical Properties of the W-Ni-Co System Refractory High-Entropy Alloys. 2015 , 816, 324-329	8
1673	Oxide-fibre/high-entropy-alloy-matrix composites. 2015 , 76, 131-134	14
1672	Effect of starting grain size on the evolution of microstructure and texture during thermo-mechanical processing of CoCrFeMnNi high entropy alloy. 2015 , 647, 82-96	55
1671	Effect of Annealing Time on the Microstructure and Mechanical Properties of the AlCrFeNi ₂ Ti _{0.5} High Entropy Alloys. 2015 , 816, 319-323	1
1670	Evolution of microstructure and crystallographic texture in severely cold rolled high entropy equiatomic CoCrFeMnNi alloy during annealing. 2015 , 82, 012068	11
1669	Corrosion Behavior of Ti-Based In Situ Dendrite-Reinforced Metallic Glass Matrix Composites in Various Solutions. 2015 , 46, 2399-2403	6
1668	Microsegregation in and Phase Stability of As-Cast Ti-Zr-Hf-Ni-Pd-Pt High-Entropy Alloys. 2015 , 46, 1474-1480	5
1667	Comparative study of the microstructures and mechanical properties of direct laser fabricated and arc-melted Al x CoCrFeNi high entropy alloys. 2015 , 633, 184-193	189
1666	Microstructures and mechanical properties of compositionally complex Co-free FeNiMnCr ₁₈ FCC solid solution alloy. 2015 , 640, 217-224	75
1665	A Criterion for Topological Close-Packed Phase Formation in High Entropy Alloys. 2015 , 17, 2355-2366	53
1664	First demonstration of promising selective electron beam melting method for utilizing high-entropy alloys as engineering materials. 2015 , 159, 12-15	90

1663	Effect of entropy-packing fraction relation on the formation of complex metallic materials. 2015 , 2, 096501	2
1662	Microstructure, thermodynamics and compressive properties of AlCrCuNi _x Ti (x = 0, 1) high entropy alloys. 2015 , 31, 1842-1849	12
1661	Phase Evolution and Properties of Al ₂ CrFeNiMo _x High-Entropy Alloys Coatings by Laser Cladding. 2015 , 24, 1333-1340	54
1660	Microstructure, phase stability and mechanical properties of Nb _{0.5} Ni _{0.5} Co _{0.5} Zr and Nb _{0.5} Ni _{0.5} Co _{0.5} Zr _{0.5} Hf high entropy alloys. 2015 , 25, 365-369	18
1659	Microstructure and Mechanical Behavior of High-Entropy Alloys. 2015 , 24, 3685-3698	34
1658	Influence of Bridgman solidification on microstructures and magnetic behaviors of a non-equiatomic FeCoNiAlSi high-entropy alloy. 2015 , 67, 171-176	44
1657	Corrosion characteristics of high entropy alloys. 2015 , 31, 1235-1243	101
1656	Effects of Tungsten on Microstructure and Mechanical Properties of CrFeNiV _{0.5} W _x and CrFeNi ₂ V _{0.5} W _x High-Entropy Alloys. 2015 , 24, 4594-4600	33
1655	Study of the microstructure and performance of high-entropy alloys Al _x FeCuCoNiCrTi. 2015 , 19, S8-89-S8-93	4
1654	Effect of processing route on phase stability in equiatomic multicomponent Ti ₂₀ Fe ₂₀ Ni ₂₀ Co ₂₀ Cu ₂₀ high entropy alloy. 2015 , 31, 1214-1222	22
1653	Nanoindentation characterised plastic deformation of a Al _{0.5} CoCrFeNi high entropy alloy. 2015 , 31, 1244-1249	26
1652	High Entropy Shape Memory Alloys. 2015 , 2, S499-S503	50
1651	High entropy alloys. 2015 , 31, 1139-1141	22
1650	In-situ TEM observation of structural changes in nano-crystalline CoCrCuFeNi multicomponent high-entropy alloy (HEA) under fast electron irradiation by high voltage electron microscopy (HVEM). 2015 , 59, 32-42	118
1649	Synthesis and characterization of FeCoCrAlCu high-entropy alloy coating by laser surface alloying. 2015 , 262, 64-69	84
1648	Phase selection rules for cast high entropy alloys: an overview. 2015 , 31, 1223-1230	137
1647	Ab initio study of Al _x MoNbTiV high-entropy alloys. 2015 , 27, 075401	24
1646	Insights into the phase diagram of the CrMnFeCoNi high entropy alloy. 2015 , 88, 355-365	203

1645	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. 2015 , 60, 1-8	213
1644	Amorphization in equiatomic high entropy alloys. 2015 , 413, 8-14	15
1643	Rapid precipitation in an Al _{0.5} CrFeCoNiCu high entropy alloy. 2015 , 31, 1171-1177	21
1642	Microstructure and corrosion behaviour of FeCoNiCuSn _x high entropy alloys. 2015 , 31, 1148-1152	15
1641	Electrochemical behaviours of (NiCoFeCrCu) ₉₅ B ₅ high entropy alloy coatings. 2015 , 31, 1159-1164	21
1640	Critical Assessment 14: High entropy alloys and their development as structural materials. 2015 , 31, 1142-1147 _{IO4}	
1639	Microstructure, thermodynamics and compressive properties of AlCoCrCuMn-x (x=Fe, Ti) high-entropy alloys. 2015 , 627, 391-398	34
1638	Effect of V content on microstructure and mechanical properties of the CoCrFeMnNiV _x high entropy alloys. 2015 , 628, 170-185	223
1637	The Mechanical and Corrosion Behaviors of As-cast and Re-melted AlCrCuFeMnNi Multi-Component High-Entropy Alloy. 2015 , 46, 1468-1473	30
1636	Microstructure and tensile properties of Al _{0.5} CoCrCuFeNi alloys produced by simple rolling and annealing. 2015 , 31, 1178-1183	16
1635	The generalized thermodynamic rule for phase selection in multicomponent alloys. 2015 , 59, 75-80	72
1634	Plasma-Sprayed High Entropy Alloys: Microstructure and Properties of AlCoCrFeNi and MnCoCrFeNi. 2015 , 46, 791-800	98
1633	Deviation from high-entropy configurations in the atomic distributions of a multi-principal-element alloy. 2015 , 6, 5964	416
1632	High-Temperature Oxidation Behavior of Al-Co-Cr-Ni-(Fe or Si) Multicomponent High-Entropy Alloys. 2015 , 67, 246-259	97
1631	Effects of Nb addition on structural evolution and properties of the CoFeNi ₂ V _{0.5} high-entropy alloy. 2015 , 119, 291-297	67
1630	High entropy alloy thin films deposited by magnetron sputtering of powder targets. 2015 , 580, 71-76	67
1629	High-Temperature Deformation Processing Map Approach for Obtaining the Desired Microstructure in a Multi-component (Ni-Ti-Cu-Fe) Alloy. 2015 , 46, 2201-2215	8
1628	Single crystal plastic behavior of a single-phase, face-center-cubic-structured, equiatomic FeNiCrCo alloy. 2015 , 109, 108-112	51

1627	Manufacturing of High Entropy Alloys. 2015 , 67, 2278-2287	31
1626	Fine-scale precipitation in the high-entropy alloy Al _{0.5} CrFeCoNiCu. 2015 , 645, 65-71	50
1625	On the room temperature deformation mechanisms of a TiZrHfNbTa refractory high-entropy alloy. 2015 , 645, 255-263	129
1624	Microstructure and properties of a refractory high-entropy alloy after cold working. 2015 , 649, 1110-1123	206
1623	Effects of Fe Content on Microstructures and Properties of AlCoCrFe x Ni High-Entropy Alloys. 2015 , 40, 3657-3663	16
1622	Peculiarities of the phase composition and structure of the high-entropy FeWMoCrVSiMnC multicomponent steel. 2015 , 60, 1088-1092	2
1621	Tensile properties of the CrBeNiMn non-equiatomic multicomponent alloys with different Cr contents. 2015 , 87, 60-65	64
1620	An assessment on the future development of high-entropy alloys: Summary from a recent workshop. 2015 , 66, 67-76	267
1619	Relative crystal stability of Al _x FeNiCrCo high entropy alloys from XRD analysis and formation energy calculation. 2015 , 648, 307-312	28
1618	The phase stability of Ni ₂ CrFeMox multi-principal-component alloys with medium configurational entropy. 2015 , 85, 1-6	24
1617	Predicting the Crystal Structure and Phase Transitions in High-Entropy Alloys. 2015 , 67, 2375-2380	24
1616	Mechanical properties, microstructure and thermal stability of a nanocrystalline CoCrFeMnNi high-entropy alloy after severe plastic deformation. 2015 , 96, 258-268	678
1615	Structure and characteristics of reactive magnetron sputtered (CrTaTiVZr)N coatings. 2015 , 39, 30-39	13
1614	Tribological behavior of AlCoCrCuFeNi and AlCoCrFeNiTi _{0.5} high entropy alloys under hydrogen peroxide solution against different counterparts. 2015 , 92, 203-210	23
1613	Interatomic spacing distribution in multicomponent alloys. 2015 , 97, 156-169	67
1612	Ultrastrong ductile and stable high-entropy alloys at small scales. 2015 , 6, 7748	306
1611	Microstructure and mechanical behavior of a novel Co ₂₀ Ni ₂₀ Fe ₂₀ Al ₂₀ Ti ₂₀ alloy fabricated by mechanical alloying and spark plasma sintering. 2015 , 644, 10-16	38
1610	Phase stability of non-equiatomic CoCrFeMnNi high entropy alloys. 2015 , 98, 288-296	157

1609	Fabrication and mechanical properties of AlCoNiCrFe high-entropy alloy particle reinforced Cu matrix composites. 2015 , 649, 630-634	68
1608	Effect of Mo and Ni elements on microstructure evolution and mechanical properties of the CoFeNi _x VMoy high entropy alloys. 2015 , 649, 585-590	89
1607	Elastic constants of random solid solutions by SQS and CPA approaches: the case of fcc Ti-Al. 2015 , 27, 315702	21
1606	Examination of Solid-Solution Phase Formation Rules for High Entropy Alloys from Atomistic Monte Carlo Simulations. 2015 , 67, 2364-2374	20
1605	Soft magnetic Fe ₂₅ Co ₂₅ Ni ₂₅ (B, Si) ₂₅ high entropy bulk metallic glasses. 2015 , 66, 8-12	60
1604	Effects of Co and sintering method on microstructure and mechanical behavior of a high-entropy Al _{0.6} NiFeCrCo alloy prepared by powder metallurgy. 2015 , 646, 175-182	69
1603	Temperature dependent stacking fault energy of FeCrCoNiMn high entropy alloy. 2015 , 108, 44-47	309
1602	High-Temperature Tensile Strength of Al ₁₀ Co ₂₅ Cr ₈ Fe ₁₅ Ni ₃₆ Ti ₆ Compositionally Complex Alloy (High-Entropy Alloy). 2015 , 67, 2271-2277	87
1601	Nano-twin mediated plasticity in carbon-containing FeNiCoCrMn high entropy alloys. 2015 , 647, 815-822	212
1600	Oxidation resistance and characterization of (AlCrMoTaTi)-Six-N coating deposited via magnetron sputtering. 2015 , 647, 179-188	41
1599	Structure formation and properties of sputter deposited Nb _x -CoCrCuFeNi high entropy alloy thin films. 2015 , 646, 810-815	43
1598	Influence of W, Mo and Ti trace elements on the phase separation in Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ based high entropy alloy. 2015 , 159 Pt 2, 265-71	31
1597	Solid-Solution CrCoCuFeNi High-Entropy Alloy Thin Films Synthesized by Sputter Deposition. 2015 , 3, 203-209	84
1596	Alloy design for high-entropy alloys based on Pettifor map for binary compounds with 1:1 stoichiometry. 2015 , 66, 56-66	12
1595	Effects of annealing treatment on microstructure and hardness of bulk AlCrFeNiMo _{0.2} eutectic high-entropy alloy. 2015 , 82, 91-97	46
1594	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys. 2015 , 83, 651-660	130
1593	Spin-driven ordering of Cr in the equiatomic high entropy alloy NiFeCrCo. 2015 , 106, 161906	127
1592	Accelerated exploration of multi-principal element alloys for structural applications. 2015 , 50, 32-48	135

1591	Senary refractory high entropy alloy MoNbTaTiVW. 2015 , 31, 1207-1213	54
1590	Effect of Microstructure on the Deformation Mechanism of Friction Stir-Processed Al _{0.1} CoCrFeNi High Entropy Alloy. 2015 , 3, 30-34	79
1589	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys. 2015 , 62, 76-83	273
1588	Design of high entropy alloys: A single-parameter thermodynamic rule. 2015 , 104, 53-55	142
1587	Criteria for Predicting the Formation of Single-Phase High-Entropy Alloys. 2015 , 5,	81
1586	Analysis of microstructure and microtexture during grain growth in low stacking fault energy equiatomic CoCrFeMnNi high entropy and Ni ₈₀ wt.%Co alloys. 2015 , 637, 267-276	54
1585	Simultaneous effect of mechanical alloying and arc-melting processes in the microstructure and hardness of an AlCoFeMoNiTi high-entropy alloy. 2015 , 643, S250-S255	30
1584	Laser surface forming of AlCoCrCuFeNi particle reinforced AZ91D matrix composites. 2015 , 70, 119-127	42
1583	Friction Stir Processing of a High Entropy Alloy Al _{0.1} CoCrFeNi. 2015 , 67, 1007-1013	67
1582	Lattice strain framework for plastic deformation in complex concentrated alloys including high entropy alloys. 2015 , 31, 1259-1263	50
1581	Crystallization kinetics of TiZrHfCuNiBe high entropy bulk metallic glass. 2015 , 156, 146-149	38
1580	Design of a twinning-induced plasticity high entropy alloy. 2015 , 94, 124-133	435
1579	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. 2015 , 64, 63-69	89
1578	Recrystallization Behavior of CoCrCuFeNi High-Entropy Alloy. 2015 , 46, 1481-1487	77
1577	Effect of Al on structure and mechanical properties of Al _x NbTiVZr (x = 0, 0.5, 1, 1.5) high entropy alloys. 2015 , 31, 1184-1193	64
1576	A quinary TiZrHfBeCu high entropy bulk metallic glass with a critical size of 12 μm. 2015 , 61, 47-50	59
1575	Hardening of an Al _{0.3} CoCrFeNi high entropy alloy via high-pressure torsion and thermal annealing. 2015 , 151, 126-129	106
1574	Oxidation behavior of high-entropy alloys Al _x CoCrFeNi (x=0.15, 0.4) in supercritical water and comparison with HR3C steel. 2015 , 25, 1341-1351	73

1573	Microstructure and aging behaviour of Al ₅ Cr ₃₂ Fe ₃₅ Ni ₂₂ Ti ₆ high entropy alloy. 2015 , 31, 1165-1170	28
1572	High entropy alloys: Semi-impossible regular solid solutions?. 2015 , 31, 1231-1234	20
1571	Tensile properties of low-stacking fault energy high-entropy alloys. 2015 , 636, 373-378	121
1570	High temperature deformation behavior and dynamic recrystallization in CoCrFeNiMn high entropy alloy. 2015 , 636, 188-195	156
1569	Microstructural features and tensile behaviors of the Al _{0.5} CrCuFeNi ₂ high-entropy alloys by cold rolling and subsequent annealing. 2015 , 88, 1057-1062	57
1568	Physical Metallurgy of High-Entropy Alloys. 2015 , 67, 2254-2261	183
1567	Local Electronic Effects and Irradiation Resistance in High-Entropy Alloys. 2015 , 67, 2345-2349	51
1566	Microstructure and Corrosion Properties Investigations of AlCrNiCuMn High-Entropy Alloy. 2015 , 1128, 127-133	
1565	Evolution of microstructure and mechanical properties of in situ synthesized TiC/TiB ₂ /CoCrCuFeNi high entropy alloy coatings. 2015 , 281, 109-116	70
1564	Effect of Electromagnetic Field on Microstructure and Properties of Bulk AlCrFeNiMo _{0.2} High-Entropy Alloy. 2015 , 24, 4475-4481	7
1563	Microstructure and wear properties of CuNiSiTiZr high-entropy alloy coatings on TC11 titanium alloy produced by electrospark computer numerical control deposition process. 2015 , 283, 156-161	23
1562	Structure and properties of a laminated composite material made of high-entropy alloy with carbide and intermetallic hardening. 2015 , 79, 1122-1129	3
1561	Synthesis and electron microscopy of high entropy alloy nanoparticles. 2015 , 160, 419-422	28
1560	Microstructural investigation of plastically deformed Ti ₂₀ Zr ₂₀ Hf ₂₀ Nb ₂₀ Ta ₂₀ high entropy alloy by X-ray diffraction and transmission electron microscopy. 2015 , 108, 1-7	67
1559	Irradiation Behavior in High Entropy Alloys. 2015 , 22, 879-884	82
1558	Effect of cold-rolling strain on the evolution of annealing texture of equiatomic CoCrFeMnNi high entropy alloy. 2015 , 109, 189-197	39
1557	Structure and mechanical properties of the AlCr _x NbTiV (x = 0, 0.5, 1, 1.5) high entropy alloys. 2015 , 652, 266-280	134
1556	Tensile ductility of an AlCoCrFeNi multi-phase high-entropy alloy through hot isostatic pressing (HIP) and homogenization. 2015 , 647, 229-240	137

1555	Wetting and interface phenomena in the molten Sn/CuFeNiCoCr high-entropy alloy system. 2015 , 356, 460-466	11
1554	Effects of Co and Ti on microstructure and mechanical behavior of Al _{0.75} FeNiCrCo high entropy alloy prepared by mechanical alloying and spark plasma sintering. 2015 , 648, 217-224	67
1553	Pseudo-quinary Ti ₂₀ Zr ₂₀ Hf ₂₀ Be ₂₀ (Cu _{20-x} Nix) high entropy bulk metallic glasses with large glass forming ability. 2015 , 87, 625-631	56
1552	Development of an advanced bond coat for solid oxide fuel cell interconnector applications. 2015 , 296, 426-432	7
1551	Processing, Microstructure and Mechanical Properties of the CrMnFeCoNi High-Entropy Alloy. 2015 , 67, 2262-2270	135
1550	Effect of iron content on the structure and mechanical properties of Al ₂₅ Ti ₂₅ Ni ₂₅ Cu ₂₅ and (AlTi) _{60-x} Ni ₂₀ Cu ₂₀ Fe _x (x=15, 20) high-entropy alloys. 2015 , 358, 549-555	27
1549	Point defect evolution in Ni, NiFe and NiCr alloys from atomistic simulations and irradiation experiments. 2015 , 99, 69-76	93
1548	Non-equiatomic high entropy alloys: Approach towards rapid alloy screening and property-oriented design. 2015 , 648, 183-192	130
1547	Effects of Al addition on microstructure and mechanical properties of Al CoCrFeNi High-entropy alloy. 2015 , 648, 15-22	172
1546	The evolution of microstructures and high temperature properties of Al _x Co _{1.5} CrFeNi _{1.5} Ti _y high entropy alloys. 2015 , 653, 379-385	83
1545	Microstructure and Mechanical Properties of Co ₂₁ Cr ₂₂ Cu ₂₂ Fe ₂₁ Ni ₁₄ Processed by High Pressure Torsion and Annealing. 2015 , 67, 2303-2309	23
1544	Beyond Atomic Sizes and Hume-Rothery Rules: Understanding and Predicting High-Entropy Alloys. 2015 , 67, 2350-2363	72
1543	Effects of Temperature on Serrated Flows of Al _{0.5} CoCrCuFeNi High-Entropy Alloy. 2015 , 67, 2314-2320	38
1542	Mechanical Properties and Formation of Phases in High-Entropy CrFeNiCuCoAl _x Alloys. 2015 , 54, 344-352	6
1541	Design of Refractory High-Entropy Alloys. 2015 , 67, 2653-2669	94
1540	Effect of N ₂ flow on the structure and mechanical properties of (CrTaTiVZr) _{Nx} coatings processed by reactive magnetron sputtering. 2015 , 30, 924-934	6
1539	Local Structures of High-Entropy Alloys (HEAs) on Atomic Scales: An Overview. 2015 , 67, 2321-2325	26
1538	Investigation of FeNiCrWMn - a new high entropy alloy. 2015 , 95, 012017	

1537	Directions for High-Temperature Shape Memory Alloys Improvement: Straight Way to High-Entropy Materials?. 2015 , 1, 400-407	39
1536	Supporting data for senary refractory high-entropy alloy Cr x MoNbTaVW. 2015 , 5, 730-5	3
1535	Senary refractory high-entropy alloy Cr MoNbTaVW. 2015 , 51, 193-201	51
1534	Effect of cryo-deformation on structure and properties of CoCrFeNiMn high-entropy alloy. 2015 , 59, 8-17	259
1533	The use of high-entropy alloys in additive manufacturing. 2015 , 99, 93-96	204
1532	Laser additive synthesis of high entropy alloy coating on aluminum: Corrosion behavior. 2015 , 142, 122-125	89
1531	A centimeter-size Zr40Hf10Ti4Y1Al10Cu25Ni7Co2Fe1 bulk metallic glass with high mixing entropy designed by multi-substitution. 2015 , 410, 39-42	24
1530	Microstructures and mechanical property of AlCoNiCrFe alloy annealed in high magnetic field. 2015 , 31, 1342-1348	3
1529	Mechanical Properties Improvement of AlCrFeNi2Ti0.5 High Entropy Alloy through Annealing Design and its Relationship with its Particle-reinforced Microstructures. 2015 , 31, 397-402	43
1528	Polycrystalline elastic moduli of a high-entropy alloy at cryogenic temperatures. 2015 , 58, 62-64	118
1527	A Novel Low-Density, High-Hardness, High-entropy Alloy with Close-packed Single-phase Nanocrystalline Structures. 2015 , 3, 95-99	321
1526	Modelling solid solution hardening in high entropy alloys. 2015 , 85, 14-23	270
1525	The magnetocaloric effect of Gd-Tb-Dy-Al-M (M=Fe, Co and Ni) high-entropy bulk metallic glasses. 2015 , 58, 31-35	60
1524	Fabrication and properties of TiB2-based cermets by spark plasma sintering with CoCrFeNiTiAl high-entropy alloy as sintering aid. 2015 , 35, 879-886	51
1523	Phase evolution characteristics of FeCoCrAlCuVxNi high entropy alloy coatings by laser high-entropy alloying. 2015 , 141, 7-9	29
1522	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloys. 2015 , 624, 100-107	146
1521	Structural and thermodynamic factors of suppressed interdiffusion kinetics in multi-component high-entropy materials. 2014 , 4, 4162	57
1520	Phase equilibria, microstructure, and high temperature oxidation resistance of novel refractory high-entropy alloys. 2015 , 624, 270-278	191

1519	Nanoindentation creep behavior in a CoCrFeCuNi high-entropy alloy film with two different structure states. 2015 , 621, 111-117	91
1518	Empirical design of single phase high-entropy alloys with high hardness. 2015 , 58, 1-6	100
1517	On the microstructures, phase assemblages and properties of Al _{0.5} CoCrCuFeNiSix high-entropy alloys. 2015 , 630, 151-157	43
1516	Nanoscale phase separation in a fcc-based CoCrCuFeNiAl _{0.5} high-entropy alloy. 2015 , 84, 145-152	142
1515	Temperature dependencies of the elastic moduli and thermal expansion coefficient of an equiatomic, single-phase CoCrFeMnNi high-entropy alloy. 2015 , 623, 348-353	243
1514	Atomic-size effect and solid solubility of multicomponent alloys. 2015 , 94, 28-31	226
1513	Alloying behavior and novel properties of CoCrFeNiMn high-entropy alloy fabricated by mechanical alloying and spark plasma sintering. 2015 , 56, 24-27	202
1512	Characterization of BCC phases in AlCoCrFeNiTi _x high entropy alloys. 2015 , 138, 78-80	78
1511	Positron annihilation studies on FeCrCoNi high entropy alloy. 2015 , 620, 277-282	19
1510	A promising new class of high-temperature alloys: eutectic high-entropy alloys. 2014 , 4, 6200	604
1509	Microstructure and Properties of Coating of FeAlCuCrCoMn High Entropy Alloy Deposited by Direct Current Magnetron Sputtering. 2016 , 19, 802-806	34
1508	Through-Focal HAADF-STEM Analysis of Dislocation Cores in a High-Entropy Alloy. 2016 , 22, 1936-1937	
1507	Series of Nanocrystalline NiCoAlFe(Cr, Cu, Mo, Ti) High-Entropy Alloys produced by Mechanical Alloying. 2016 , 19, 39-46	15
1506	Design of Light-Weight High-Entropy Alloys. 2016 , 18, 333	105
1505	Three Strategies for the Design of Advanced High-Entropy Alloys. 2016 , 18, 252	40
1504	High Temperature Oxidation and Corrosion Properties of High Entropy Superalloys. 2016 , 18, 62	47
1503	Development of a Refractory High Entropy Superalloy. 2016 , 18, 102	120
1502	MoNbTaV Medium-Entropy Alloy. 2016 , 18, 189	74

1501	Nano-Crystallization of High-Entropy Amorphous NbTiAlSiWxNy Films Prepared by Magnetron Sputtering. 2016 , 18, 226	49
1500	Microstructures of Al _{7.5} Cr _{22.5} Fe ₃₅ Mn ₂₀ Ni ₁₅ High-Entropy Alloy and Its Polarization Behaviors in Sulfuric Acid, Nitric Acid and Hydrochloric Acid Solutions. 2016 , 18, 288	5
1499	Soft Magnetic Properties of High-Entropy Fe-Co-Ni-Cr-Al-Si Thin Films. 2016 , 18, 308	20
1498	Isothermal Oxidation of Aluminized Coatings on High-Entropy Alloys. 2016 , 18, 376	3
1497	Serration Behavior in Pd _{77.5} Cu ₆ Si _{16.5} Alloy. 2016 , 6, 191	1
1496	An Insight into Evolution of Light Weight High Entropy Alloys: A Review. 2016 , 6, 199	73
1495	Hot Deformation Behavior of As-Cast and Homogenized Al _{0.5} CoCrFeNi High Entropy Alloys. 2016 , 6, 277	16
1494	Phase Evolution of the Al _x NbTiVZr (x = 0; 0.5; 1; 1.5) High Entropy Alloys. 2016 , 6, 298	16
1493	Microstructure and Anticorrosion Property of High-Entropy Alloy AlFeNiCrCoTi _{0.5} V _x . 2016 , 57, 1134-1137	7
1492	Mixed-up metals make for stronger, tougher, stretchier alloys. 2016 , 533, 306-7	51
1491	An Electron Microscopy Study on Morphology and Microstructure of a NiCoAlFeMoTiCr High-entropy Alloy synthesized by Arc-melting. 2016 , 22, 1978-1979	
1490	Phase evolution, microstructure and mechanical properties of equi-atomic substituted TiZrHfNiCu and TiZrHfNiCuM (M = Co, Nb) high-entropy alloys. 2016 , 22, 551-556	33
1489	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. 2016 , 116, 332-342	432
1488	Weldability of a high entropy CrMnFeCoNi alloy. 2016 , 124, 81-85	97
1487	Role of configurational entropy in body-centred cubic or face-centred cubic phase formation in high entropy alloys. 2016 , 124, 90-94	39
1486	Colossal dielectric constant in high entropy oxides. 2016 , 10, 328-333	279
1485	Superconductivity of Ta ₃₄ Nb ₃₃ Hf ₈ Zr ₁₄ Ti ₁₁ high entropy alloy from first principles calculations. 2016 , 10, 415-419	16
1484	An implicit three-dimensional model for describing the inelastic response of solids undergoing finite deformation. 2016 , 67, 1	18

1483	In vitro corrosion resistance of Si containing multi-principal element carbide coatings. 2016 , 67, 908-914	3
1482	Microstructure, mechanical properties and corrosion resistance of CuZrY/Al, Ti, Hf series high-entropy alloys. 2016 , 108, 106-113	30
1481	High-Entropy Alloys Including 3d, 4d and 5d Transition Metals from the Same Group in the Periodic Table. 2016 , 57, 1197-1201	3
1480	Effect of one-step recrystallization on the grain boundary evolution of CoCrFeMnNi high entropy alloy and its subsystems. 2016 , 6, 22306	38
1479	Tailoring the physical properties of Ni-based single-phase equiatomic alloys by modifying the chemical complexity. 2016 , 6, 20159	124
1478	An Experimental Study of Thermophysical Properties for Quinary High-Entropy NiFeCoCrCu/Al Alloys. 2016 , 33, 116102	5
1477	In situ mechanical characterization of CoCrCuFeNi high-entropy alloy micro/nano-pillars for their size-dependent mechanical behavior. 2016 , 3, 094002	38
1476	High thermal stability and sluggish crystallization kinetics of high-entropy bulk metallic glasses. 2016 , 119, 245112	53
1475	Effects of Fe concentration on the ion-irradiation induced defect evolution and hardening in Ni-Fe solid solution alloys. 2016 , 121, 365-373	54
1474	Superior hydrogen storage in high entropy alloys. 2016 , 6, 36770	140
1473	The configurational entropy of mixing of metastable random solid solution in complex multicomponent alloys. 2016 , 120, 154902	27
1472	Atomic displacement in the CrMnFeCoNi high-entropy alloy Δ A scaling factor to predict solid solution strengthening. 2016 , 6, 125008	118
1471	Mechanically Alloyed High Entropy Composite. 2016 , 145, 072007	3
1470	Alloy design for intrinsically ductile refractory high-entropy alloys. 2016 , 120, 164902	158
1469	Kinetic ways of tailoring phases in high entropy alloys. 2016 , 6, 34628	24
1468	Effects of cold rolling and subsequent annealing on the microstructure of a HfNbTaTiZr high-entropy alloy. 2016 , 31, 3815-3823	32
1467	Effect of Boron on the Microstructure, Phase Assemblage and Wear Properties of Al _{0.5} CoCrCuFeNi High-Entropy Alloy. 2016 , 45, 2201-2207	18
1466	Effect of atomic size on undercoolability of binary solid solution alloy liquids with Zr, Ti, and Hf using electrostatic levitation. 2016 , 145, 174504	6

1465	Electromagnetic wave absorption properties of mechanically alloyed FeCoNiCrAl high entropy alloy powders. 2016 , 27, 1128-1133	43
1464	The use of diffusion multiples to examine the compositional dependence of phase stability and hardness of the Co-Cr-Fe-Mn-Ni high entropy alloy system. 2016 , 75, 15-24	42
1463	Synthesis and thermodynamic analysis of nanostructured CuNiCoZnAl high entropy alloy produced by mechanical alloying. 2016 , 685, 278-286	35
1462	Interstitial strengthening of a f.c.c. FeNiMnAlCr high entropy alloy. 2016 , 180, 153-156	86
1461	Microstructure and tensile properties of nanocrystalline (FeNiCoCu) _{1-x} Ti _x Al _x high entropy alloys processed by high pressure torsion. 2016 , 74, 38-45	32
1460	Mechanical Properties and Microstructure of the CoCrFeMnNi High Entropy Alloy Under High Strain Rate Compression. 2016 , 25, 2985-2992	60
1459	Effects of the sp element additions on the microstructure and mechanical properties of NiCoFeCr based high entropy alloys. 2016 , 669, 14-19	18
1458	Metastable high-entropy dual-phase alloys overcome the strength-ductility trade-off. 2016 , 534, 227-30	1718
1457	Microstructure and small-scale size effects in plasticity of individual phases of Al _{0.7} CoCrFeNi High Entropy alloy. 2016 , 8, 220-228	37
1456	The effect of grain size on the annealing-induced phase transformation in an Al _{0.3} CoCrFeNi high entropy alloy. 2016 , 105, 381-385	51
1455	Hot deformation behaviour and processing map of Co-Cu-Fe-Ni-Ti eutectic high entropy alloy. 2016 , 664, 227-235	68
1454	Effect of Fe content on microstructure and mechanical properties of Al _{0.5} CoCrFe _x NiTi _{0.5} high-entropy alloys. 2016 , 114, 179-184	31
1453	Insight on Viscoelasticity of Ti _{16.7} Zr _{16.7} Hf _{16.7} Cu _{16.7} Ni _{16.7} Be _{16.7} High Entropy Bulk Metallic Glass. 2016 , 23, 19-23	11
1452	Reinforcement and substrate interaction in laser surface forming of AlCoCrCuFeNi particle reinforced AZ91D matrix composites. 2016 , 672, 660-667	23
1451	The fcc-bcc crystallographic orientation relationship in Al _x CoCrFeNi high-entropy alloys. 2016 , 176, 29-32	40
1450	Nanoindentation Creep Behavior of an Al _{0.3} CoCrFeNi High-Entropy Alloy. 2016 , 47, 5871-5875	41
1449	Additive Manufacturing of High-Entropy Alloys by Laser Processing. 2016 , 68, 1810-1818	86
1448	From high entropy alloys to diluted multi-component alloys: Range of existence of a solid-solution. 2016 , 103, 84-89	39

1447	Effects of compositional complexity on the ion-irradiation induced swelling and hardening in Ni-containing equiatomic alloys. 2016 , 119, 65-70	156
1446	Processing, alloy composition and phase transition effect on the mechanical and corrosion properties of high entropy alloys: a review. 2016 , 5, 384-393	60
1445	Mechanism of magnetic transition in FeCrCoNi-based high entropy alloys. 2016 , 103, 71-74	76
1444	Grain boundary complexions in multicomponent alloys: Challenges and opportunities. 2016 , 20, 268-277	44
1443	Laser surface alloying of FeCoCrAlNi high-entropy alloy on 304 stainless steel to enhance corrosion and cavitation erosion resistance. 2016 , 84, 23-31	136
1442	Effect of Annealing Treatment on the Microstructure and Magnetic Properties of FeSiBAlNi(C, Ce) High Entropy Alloys. 2016 , 849, 52-57	5
1441	Properties of coatings of the AlCrFeCoNiCuW high entropy alloy produced by the magnetron sputtering. 2016 , 38, 25-33	16
1440	Overview of High-Entropy Alloys. 2016 , 1-19	4
1439	Potential Applications and Prospects. 2016 , 493-512	1
1438	Structure of some CoCrFeNi and CoCrFeNiPd multicomponent HEA alloys by diffraction techniques. 2016 , 681, 330-341	62
1437	A cuboidal B2 nanoprecipitation-enhanced body-centered-cubic alloy Al _{0.7} CoCrFe ₂ Ni with prominent tensile properties. 2016 , 120, 85-89	86
1436	High-Entropy Alloys. 2016 ,	298
1435	Characterization of the microstructure of the compositionally complex alloy Al ₁ Mo _{0.5} Nb ₁ Ta _{0.5} Ti ₁ Zr ₁ . 2016 , 121, 1-4	75
1434	Design of High-Entropy Alloys. 2016 , 369-398	10
1433	Phase Formation Rules. 2016 , 21-49	10
1432	Advanced Characterization Techniques. 2016 , 115-150	
1431	Fabrication Routes. 2016 , 151-179	2
1430	Mechanical Properties of High-Entropy Alloys. 2016 , 181-236	8

1429	High-Entropy Metallic Glasses. 2016 , 445-468	3
1428	Thermodynamic properties of average-atom interatomic potentials for alloys. 2016 , 24, 045017	12
1427	Elemental segregation in solid-solution high-entropy alloys: Experiments and modeling. 2016 , 681, 167-174	34
1426	High-entropy alloys: a critical assessment of their founding principles and future prospects. 2016 , 61, 183-202	413
1425	Thermodynamic properties of refractory high entropy alloys. 2016 , 682, 773-777	35
1424	Decomposition of the single-phase high-entropy alloy CrMnFeCoNi after prolonged anneals at intermediate temperatures. 2016 , 112, 40-52	485
1423	Microstructural stability and mechanical behavior of FeNiMnCr high entropy alloy under ion irradiation. 2016 , 113, 230-244	305
1422	Stability of lamellar structures in CoCrFeNiNb _x eutectic high entropy alloys at elevated temperatures. 2016 , 104, 259-264	88
1421	Plasticity enhancement of high-entropy bulk metallic glasses by electroless plating with Ni-P amorphous films. 2016 , 673, 141-147	16
1420	Influence of Ti addition on microstructure and mechanical behavior of a FCC-based Fe ₃₀ Ni ₃₀ Co ₃₀ Mn ₁₀ alloy. 2016 , 676, 492-500	23
1419	Compositional dependence of phase formation and mechanical properties in three CoCrFeNi-(Mn/Al/Cu) high entropy alloys. 2016 , 79, 1-11	60
1418	The Different Roles of Entropy and Solubility in High Entropy Alloy Stability. 2016 , 18, 596-603	18
1417	Strain rate sensitivity of nanoindentation creep in an AlCoCrFeNi high-entropy alloy. 2016 , 122, 1	13
1416	Tailoring nanostructures and mechanical properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy using thermo-mechanical processing. 2016 , 675, 99-109	146
1415	Synthesis of MultimetalGraphene Composite by Mechanical Milling. 2016 , 68, 2574-2578	3
1414	Liquid phase separation and rapid dendritic growth of high-entropy CoCrCuFeNi alloy. 2016 , 77, 41-45	44
1413	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. 2016 , 125, 5-9	42
1412	Mechanical properties of Ti _{16.7} Zr _{16.7} Hf _{16.7} Cu _{16.7} Ni _{16.7} Be _{16.7} high-entropy bulk metallic glass. 2016 , 452, 57-61	35

1411	Thermal activation mechanisms and Labusch-type strengthening analysis for a family of high-entropy and equiatomic solid-solution alloys. 2016 , 120, 108-119	161
1410	Influence of chemical disorder on energy dissipation and defect evolution in advanced alloys. 2016 , 31, 2363-2375	78
1409	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. 2016 , 676, 294-303	167
1408	The effect of interstitial carbon on the mechanical properties and dislocation substructure evolution in Fe _{40.4} Ni _{11.3} Mn _{34.8} Al _{7.5} Cr ₆ high entropy alloys. 2016 , 120, 228-239	250
1407	Microstructure and Properties of FeAlCrNiMo _x High-Entropy Alloys. 2016 , 25, 2164-2169	14
1406	Synthesis and characterization of AlCoCrCuFeZn _x high-entropy alloy by mechanical alloying. 2016 , 26, 380-384	28
1405	Effect of Ta Addition on Structural Evolution and Mechanical Properties of the CoFeNi ₂ W _{0.5} High Entropy Alloy. 2016 , 849, 34-39	2
1404	Curie Temperature Engineering in High Entropy Alloys for Magnetocaloric Applications. 2016 , 7, 1-5	35
1403	Identifying non-equiatomic high entropy bulk metallic glass formers through thermodynamic approach: A theoretical perspective. 2016 , 450, 164-173	5
1402	Structure and Mechanical Properties of High-Entropy AlCuNiFeTi and AlCuNiFeCr Alloys Produced by Mechanical Activation Followed by Pressure Sintering. 2016 , 55, 152-163	11
1401	Structural Features and Solid-Solution Hardening of High-Entropy CrMnFeCoNi Alloy. 2016 , 55, 225-235	6
1400	Phase stability and microstructures of high entropy alloys ion irradiated to high doses. 2016 , 480, 100-108	73
1399	A high accuracy diffusion kinetics formalism for random multicomponent alloys: application to high entropy alloys. 2016 , 96, 2969-2985	19
1398	Microstructure and Tribological Behaviour of CrCuFeNiTi High Entropy Alloys. 2016 , 82, 02007	2
1397	Self-Similar Random Process and Chaotic Behavior In Serrated Flow of High Entropy Alloys. 2016 , 6, 29798	20
1396	Influence of High-Pressure Torsion on the Microstructure and the Hardness of a Ti-Rich High-Entropy Alloy. 2016 , 879, 732-737	1
1395	Liquid Supercoolability and Synthesis Kinetics of Quinary Refractory High-entropy Alloy. 2016 , 6, 37191	3
1394	The general effect of atomic size misfit on glass formation in conventional and high-entropy alloys. 2016 , 78, 30-41	16

1393	The influence of Ge and In addition on the phase formation of CoCrCuFeNi high-entropy alloy thin films. 2016 , 616, 703-710	26
1392	High-entropy BNbTaTiZr thin film with excellent thermal stability of amorphous structure and its electrical properties. 2016 , 185, 456-459	29
1391	Synthesis and microstructure characterization of Ni-Cr-Co-Ti-V-Al high entropy alloy coating on Ti-6Al-4V substrate by laser surface alloying. 2016 , 120, 229-233	53
1390	NbTaV-(Ti,W) refractory high-entropy alloys: Experiments and modeling. 2016 , 674, 203-211	134
1389	Affordable FeCrNiMnCu high entropy alloys with excellent comprehensive tensile properties. 2016 , 77, 23-33	34
1388	Efficient Ab-initio Modeling of Random Multicomponent Alloys. 2016 , 116, 105501	58
1387	The effect of heating rate on microstructure and texture formation during annealing of heavily cold-rolled equiatomic CoCrFeMnNi high entropy alloy. 2016 , 688, 752-761	28
1386	Understanding phase stability of Al-Co-Cr-Fe-Ni high entropy alloys. 2016 , 109, 425-433	154
1385	High-entropy alloy particle reinforced Al-based amorphous alloy composite with ultrahigh strength prepared by spark plasma sintering. 2016 , 109, 219-226	53
1384	Synthesis and microstructural characterization of a novel multicomponent equiatomic ZrNbAlTiV high entropy alloy. 2016 , 124, 146-150	15
1383	Microstructure and Mechanical Properties of a New Refractory HfNbSi _{0.5} TiVZr High Entropy Alloy. 2016 , 849, 76-84	9
1382	Ni tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. 2016 , 688, 994-1001	157
1381	Microstructures and mechanical properties of Co ₂ MoxNi ₂ VW _x eutectic high entropy alloys. 2016 , 109, 539-546	89
1380	On the single phase fcc solid solution in nanocrystalline Cr-Nb-Ti-V-Zn high-entropy alloy. 2016 , 183, 44-47	20
1379	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. 2016 , 116, 135504	250
1378	Dislocations and deformation microstructure in a B2-ordered Al ₂₈ Co ₂₀ Cr ₁₁ Fe ₁₅ Ni ₂₆ high-entropy alloy. 2016 , 6, 29700	40
1377	Microstructure of Rapidly Solidified Melt-Spun Ribbon in AlCoCrFeNi _{2.1} Eutectic High-Entropy Alloys. 2016 , 879, 1350-1354	2
1376	SHS metallurgy of high-entropy transition metal alloys. 2016 , 470, 145-149	17

1375	Thermodynamic investigations on the component dependences of high-entropy alloys. 2016 , 90, 2339-2345	3
1374	Atomistic clustering-ordering and high-strain deformation of an Al _{0.1} CrCoFeNi high-entropy alloy. 2016 , 6, 31028	52
1373	Size effect, critical resolved shear stress, stacking fault energy, and solid solution strengthening in the CrMnFeCoNi high-entropy alloy. 2016 , 6, 35863	232
1372	Microstructure and Wear Behavior of Atmospheric Plasma-Sprayed AlCoCrFeNiTi High-Entropy Alloy Coating. 2016 , 25, 5513-5521	60
1371	Development of a novel high-entropy alloy with eminent efficiency of degrading azo dye solutions. 2016 , 6, 34213	64
1370	A Heat-Resistant NiCo _{0.6} Fe _{0.2} Cr _{1.5} SiAlTi _{0.2} Overlay Coating for High-Temperature Applications. 2016 , 163, C752-C758	17
1369	Structural and Microstructural Characterization of CoCrFeNiPd High Entropy Alloys. 2016 , 257, 72-75	4
1368	High Temperature Properties of Advanced Directionally-Solidified High Entropy Superalloys. 2016 , 1001-1009	2
1367	Compressive deformation behavior of CrMnFeCoNi high-entropy alloy. 2016 , 22, 982-986	42
1366	Microstructure and Characterization of Mechanically Alloyed Equiatomic AlCuCrFeMnW High Entropy Alloy. 2016 , 3, 2926-2933	17
1365	Effect of electron count and chemical complexity in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor. 2016 , 113, E7144-E7150	63
1364	Recent Progress in Alloy Designs for High-Entropy Crystalline and Glassy Alloys. 2016 , 63, 209-216	6
1363	Designing and characterizing a complex concentrated gamma/gamma prime Superalloy 2016 , 22, 672-673	2
1362	Al _x CrFeCoNi High-Entropy Alloys: Surface Modification by Electron Beam Bead-on-Plate Melting. 2016 , 5, 229-240	18
1361	Impact of CrSiTi and NiSi on the Thermodynamics, Microstructure, and Properties of AlCoCuFe-Based High-Entropy Alloys. 2016 , 25, 2053-2064	2
1360	Microstructure Evolution and Wear Behavior of the Laser Cladded CoFeNi ₂ V _{0.5} Nb _{0.75} and CoFeNi ₂ V _{0.5} Nb High-Entropy Alloy Coatings. 2016 , 25, 806-814	42
1359	Microstructure and mechanical properties of equimolar FeCoCrNi high entropy alloy prepared via powder extrusion. 2016 , 75, 25-30	80
1358	Shock compression response of high entropy alloys. 2016 , 4, 226-232	54

1357	Thermoelectric high-entropy alloys with low lattice thermal conductivity. 2016 , 6, 52164-52170	61
1356	Stability of ordered L12 and B2 precipitates in face centered cubic based high entropy alloys - Al _{0.3} CoFeCrNi and Al _{0.3} CuFeCrNi ₂ . 2016 , 123, 130-134	108
1355	Evolution of microstructure and texture during thermo-mechanical processing of a two phase Al _{0.5} CoCrFeMnNi high entropy alloy. 2016 , 118, 417-424	46
1354	A combinatorial assessment of Al _x CrCuFeNi ₂ (0 ≤ x ≤ 1). 2016 , 116, 63-76	152
1353	Atomic-scale homogenization in an fcc-based high-entropy alloy via severe plastic deformation. 2016 , 686, 15-23	15
1352	Mechanical properties and structure of rapidly solidified bulk Fe ₈₉ Hf ₄ Ta ₁ Cu ₁ Gd ₁ Si _x B ₄ (x=0-5) and Fe ₇₄ Hf ₄ Ta ₁ Cu ₁ Gd ₁ La _y Si ₁₅ B ₄ (y=7) alloys. 2016 , 103, 377-390	7
1351	Effect of Ti content on the microstructure and mechanical behavior of (Fe ₃₆ Ni ₁₈ Mn ₃₃ Al ₁₃) _{100-x} Ti _x high entropy alloys. 2016 , 75, 79-87	38
1350	Effect of carbon content and annealing on structure and hardness of the CoCrFeNiMn-based high entropy alloys. 2016 , 687, 59-71	153
1349	High thermal stability of the amorphous structure of G _x NbTaTiZr (x=0.5, 1) high-entropy alloys. 2016 , 181, 223-226	23
1348	Strengthening of nanoprecipitations in an annealed Al _{0.5} CoCrFeNi high entropy alloy. 2016 , 671, 82-86	108
1347	The high-energy micro-arc spark computer numerical control deposition of planar NURBS curve coatings. 2016 , 87, 3325-3335	3
1346	Creation and Mössbauer studies of high-entropy physical vapor deposition by cathode arc evaporation (PVD CAE) coating AlFeCoNiCuCr. 2016 , 47, 272-277	6
1345	Atomic-scale analysis of nanoindentation behavior of high-entropy alloy. 2016 , 01, 1650001	25
1344	Enhancement of mechanical and electrochemical properties of Al _{0.25} CrCoFe _{1.25} Ni _{1.25} high-entropy alloys by coating NiB amorphous films. 2016 , 657, 353-358	16
1343	Effects of hot pressing temperature on microstructure, hardness and corrosion resistance of Al ₂ NbTi ₃ V ₂ Zr high-entropy alloy. 2016 , 32, 1582-1591	8
1342	Microstructure, thermal properties, and corrosion behaviors of FeSiBAlNi alloy fabricated by mechanical alloying and spark plasma sintering. 2016 , 23, 77-82	14
1341	Equilibrium Macroscopic Structure Revisited from Spatial Constraint. 2016 , 85, 024802	20
1340	The high-entropy alloys with high hardness and soft magnetic property prepared by mechanical alloying and high-pressure sintering. 2016 , 70, 82-87	127

1339	A criterion for the formation of high entropy alloys based on lattice distortion. 2016 , 71, 76-87	79
1338	A Combinatorial Approach to the Investigation of Metal Systems that Form Both Bulk Metallic Glasses and High Entropy Alloys. 2016 , 68, 1021-1026	21
1337	A Brief Review of High Entropy Alloys and Serration Behavior and Flow Units. 2016 , 23, 2-6	40
1336	Phase evolution in an Al _{0.5} CrFeCoNiCu High Entropy Alloy. 2016 , 71, 43-50	46
1335	Enhanced mechanical properties of a CoCrFeNi high entropy alloy by supercooling method. 2016 , 95, 183-187	73
1334	A multi-component AlCrFe ₂ Ni ₂ alloy with excellent mechanical properties. 2016 , 169, 62-64	86
1333	Deciphering micro-mechanisms of plastic deformation in a novel single phase fcc-based MnFeCoNiCu high entropy alloy using crystallographic texture. 2016 , 657, 224-233	67
1332	Structural-disorder and its effect on mechanical properties in single-phase TaNbHfZr high-entropy alloy. 2016 , 106, 87-97	154
1331	Materials Informatics Using Ab initio Data: Application to MAX Phases. 2016 , 187-212	1
1330	Predicting the formation and stability of single phase high-entropy alloys. 2016 , 104, 172-179	206
1329	Microstructure and mechanical properties of in-situ MC-carbide particulates-reinforced refractory high-entropy Mo _{0.5} NbHf _{0.5} ZrTi matrix alloy composite. 2016 , 69, 74-77	54
1328	Structure and properties of AlCrFeNiCuTi six principal elements equimolar alloy. 2016 , 658, 1-5	16
1327	How to characterize disorder. 2016 , 374, 2-7	4
1326	Atomistic mechanism of nano-scale phase separation in fcc-based high entropy alloys. 2016 , 663, 340-344	15
1325	Exceptional resistance to grain growth in nanocrystalline CoCrFeNi high entropy alloy at high homologous temperatures. 2016 , 662, 361-367	124
1324	Elastic and plastic properties of as-cast equimolar TiHfZrTaNb high-entropy alloy. 2016 , 654, 30-38	103
1323	Nanotwin's formation and growth in an AlCoCuFeNi high-entropy alloy. 2016 , 114, 31-34	30
1322	Information Science for Materials Discovery and Design. 2016 ,	53

1321	Senary Refractory High-Entropy Alloy HfNbTaTiVZr. 2016 , 47, 3333-3345	60
1320	Formation of core-shell structure in high entropy alloy coating by laser cladding. 2016 , 363, 543-547	53
1319	The ultrahigh charpy impact toughness of forged AlxCoCrFeNi high entropy alloys at room and cryogenic temperatures. 2016 , 70, 24-28	157
1318	Microstructure and mechanical properties of the novel Hf ₂₅ Sc ₂₅ Ti ₂₅ Zr ₂₅ equiatomic alloy with hexagonal solid solutions. 2016 , 92, 8-17	41
1317	Microstructure and mechanical properties of a refractory HfNbTiVSi _{0.5} high-entropy alloy composite. 2016 , 174, 82-85	62
1316	Effect of heat treatment on microstructure and mechanical properties of spark plasma sintered AlCoCrFeNiTi _{0.5} high entropy alloy. 2016 , 174, 53-56	62
1315	Microstructure Evolution and Hardness of AlCrFeNi _x Mo _{0.2} High Entropy Alloy. 2016 , 849, 40-44	3
1314	Atomic-scale characterization and modeling of 60° dislocations in a high-entropy alloy. 2016 , 110, 352-363	118
1313	The oxidation behavior of an equimolar FeCoNiCrMn high-entropy alloy at 950°C in various oxygen-containing atmospheres. 2016 , 108, 209-214	80
1312	Ultrafine-Grained AlCoCrFeNi _{2.1} Eutectic High-Entropy Alloy. 2016 , 4, 174-179	205
1311	First principles exploration of near-equiatomic NiFeCrCo high entropy alloys. 2016 , 672, 510-520	49
1310	Tribological Behavior of AlCoCrFeNi(Ti _{0.5}) High Entropy Alloys under Oil and MACs Lubrication. 2016 , 32, 470-476	48
1309	Microstructure and wear behavior of a refractory high entropy alloy. 2016 , 57, 50-63	83
1308	Effect of dose and post irradiation annealing in Ni implanted high entropy alloy FeCrCoNi using slow positron beam. 2016 , 669, 117-122	14
1307	Rapid solidification and liquid-phase separation of undercooled CoCrCuFexNi high-entropy alloys. 2016 , 72, 44-52	46
1306	Microstructure and strengthening mechanisms in an FCC structured single-phase nanocrystalline Co ₂₅ Ni ₂₅ Fe ₂₅ Al _{7.5} Cu _{17.5} high-entropy alloy. 2016 , 107, 59-71	269
1305	Exceptional damage-tolerance of a medium-entropy alloy CrCoNi at cryogenic temperatures. 2016 , 7, 10602	711
1304	A hexagonal close-packed high-entropy alloy: The effect of entropy. 2016 , 96, 10-15	229

1303	Microstructure, thermodynamics and compressive properties of AlCrCuNiZrx (x = 0,1) high-entropy alloys. 2016 , 32, 1289-1295	5
1302	Strategies for improving ductility of ordered intermetallics. 2016 , 26, 1-12	45
1301	Alloying and thermal behaviour of CoCrFeNiMn0.5Ti0.5 high-entropy alloy synthesised by mechanical alloying. 2016 , 32, 94-98	12
1300	Effect of Ta Addition on Microstructure and Hardness of FeCrNiMnCoTax and Al0.5FeCrNiMnCoTax High-Entropy Alloys. 2016 , 846, 13-19	2
1299	Structure and mechanical properties of a-C/(AlCrWTaTiNb)CxNy composite films. 2016 , 32, 541-546	6
1298	Coatings of FeAlCoCuNiV high entropy alloy. 2016 , 32, 766-770	27
1297	Formation rules of single phase solid solution in high entropy alloys. 2016 , 1-5	10
1296	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. 2016 , 109, 314-322	122
1295	Interdiffusion in the FCC-structured Al-Co-Cr-Fe-Ni high entropy alloys: Experimental studies and numerical simulations. 2016 , 674, 455-462	111
1294	Anomalies in the deformation mechanism and kinetics of coarse-grained high entropy alloy. 2016 , 654, 256-263	63
1293	Effect of sintering on phase evolution in AlMgFeCuCrNi4.75 high entropy alloy. 2016 , 27, 289-294	14
1292	Hierarchical multi-scale microstructural evolution in an as-cast Al2CuCrFeNi2 complex concentrated alloy. 2016 , 71, 31-42	21
1291	Effect of Zr content on microstructure and mechanical properties of AlCoCrFeNi high entropy alloy. 2016 , 94, 39-44	101
1290	A second criterion for sigma phase formation in high-entropy alloys. 2016 , 4, 90-95	83
1289	Relationship between the microstructure and mechanical properties of an equiatomic AlCoCrFeNi high-entropy alloy fabricated by selective electron beam melting. 2016 , 656, 39-46	94
1288	Microstructure and texture of heavily cold-rolled and annealed fcc equiatomic medium to high entropy alloys. 2016 , 664, 109-119	62
1287	High-entropy alloy: challenges and prospects. 2016 , 19, 349-362	979
1286	Dual HCP structures formed in senary ScYLaTiZrHf multi-principal-element alloy. 2016 , 69, 103-109	30

1285	Microstructure and mechanical properties at elevated temperatures of a new Al-containing refractory high-entropy alloy Nb-Mo-Cr-Ti-Al. 2016 , 661, 206-215	118
1284	Effect of Ni/Cr ratio on phase, microstructure and mechanical properties of $Ni_xCoCuFeCr_{2-x}$ ($x=1.0, 1.2, 1.5, 1.8$ mol) high entropy alloys. 2016 , 662, 20-31	41
1283	Precipitation in the equiatomic high-entropy alloy CrMnFeCoNi. 2016 , 113, 106-109	321
1282	Experimental and simulated data about microstructure and phase composition of a NiCrCoTiV high-entropy alloy prepared by vacuum hot-pressing sintering. 2016 , 124, 5-10	31
1281	Microstructure Evolution in a New Refractory High-Entropy Alloy W-Mo-Cr-Ti-Al. 2016 , 47, 961-970	24
1280	Mechanical behavior and microstructure of Ti ₂₀ Hf ₂₀ Zr ₂₀ Ta ₂₀ Nb ₂₀ high-entropy alloy loaded under quasi-static and dynamic compression conditions. 2016 , 111, 106-113	54
1279	Effects of Sn element on microstructure and properties of Sn _x Al _{2.5} FeCoNiCu multi-component alloys. 2016 , 654, 327-332	13
1278	Slip nucleation in single crystal FeNiCoCrMn high entropy alloy. 2016 , 112, 54-57	93
1277	Molecular dynamics simulation of AlCoCrCuFeNi high entropy alloy thin film growth. 2016 , 68, 78-86	49
1276	Strain rate effects on the dynamic mechanical properties of the AlCrCuFeNi ₂ high-entropy alloy. 2016 , 649, 35-38	48
1275	A precipitation-hardened high-entropy alloy with outstanding tensile properties. 2016 , 102, 187-196	1020
1274	Microstructure and mechanical properties of Al _x Si _{0.2} CrFeCoNiCu _{1-x} high-entropy alloys. 2016 , 90, 601-609	34
1273	A new thermodynamic parameter to predict formation of solid solution or intermetallic phases in high entropy alloys. 2016 , 658, 603-607	128
1272	Hot deformation characteristics and dynamic recrystallization of the MoNbHfZrTi refractory high-entropy alloy. 2016 , 651, 698-707	69
1271	Nanoindentation study on the creep characteristics of high-entropy alloy films: fcc versus bcc structures. 2016 , 54, 395-400	63
1270	Microstructure and mechanical properties of Al _{20-x} Cr ₂₀ +0.5xFe ₂₀ Co ₂₀ Ni ₂₀ +0.5x high entropy alloys. 2016 , 659, 279-287	47
1269	Structure and magnetic properties of a multi-principal element NiBeCrCoZnMn alloy. 2016 , 68, 107-112	27
1268	Effect of heavy cryo-rolling on the evolution of microstructure and texture during annealing of equiatomic CoCrFeMnNi high entropy alloy. 2016 , 69, 1-9	82

1267	Effect of composing element on microstructure and mechanical properties in MoNbBfZrTi multi-principle component alloys. 2016 , 69, 13-20	43
1266	Elastic and plastic deformations in a high entropy alloy investigated using a nanoindentation method. 2016 , 68, 118-127	37
1265	Preparation of superfine-grained high entropy alloy by spark plasma sintering gas atomized powder. 2016 , 68, 16-22	84
1264	On the diffusion in high-entropy alloys. 2016 , 164, 111-113	99
1263	Structural anomaly in the high-entropy alloy ZrNbTiTaHf. 2016 , 68, 11-15	15
1262	High-Entropy Alloys in Hexagonal Close-Packed Structure. 2016 , 47, 3322-3332	111
1261	Equilibrium high entropy phases in X-NbTaTiZr (X=Al,V,Cr and Sn) multiprincipal component alloys. 2016 , 655, 138-146	26
1260	Microstructure and mechanical properties of the new Nb25Sc25Ti25Zr25 eutectic high entropy alloy. 2016 , 651, 590-597	67
1259	Calculating elastic constants in high-entropy alloys using the coherent potential approximation: Current issues and errors. 2016 , 111, 350-358	78
1258	Designing eutectic high entropy alloys of CoCrFeNiNb x. 2016 , 656, 284-289	222
1257	Recrystallization of a novel two-phase FeNiMnAlCr high entropy alloy. 2016 , 656, 458-464	57
1256	Microstructure and Mechanical Properties of a CoFeNi2V0.5Nb0.75 Eutectic High Entropy Alloy in As-cast and Heat-treated Conditions. 2016 , 32, 245-250	66
1255	Laves-phase formation criterion for high-entropy alloys. 2017 , 33, 17-22	75
1254	Interstitial atoms enable joint twinning and transformation induced plasticity in strong and ductile high-entropy alloys. 2017 , 7, 40704	207
1253	Influence of Cu content on high temperature oxidation behavior of AlCoCrCuxFeNi high entropy alloys (x=0; 0.5; 1). 2017 , 84, 52-61	84
1252	Cold-rolling and recrystallization textures of a nano-lamellar AlCoCrFeNi2.1 eutectic high entropy alloy. 2017 , 84, 42-51	68
1251	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. 2017 , 110, 011902	50
1250	Microstructures and corrosion behaviors of FeCoNi and CrFeCoNi equimolar alloys. 2017 , 186, 534-540	26

1249	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. 2017 , 685, 342-348	67
1248	Delayed plasticity during nanoindentation of single-phase CoCrFeMnNi high-entropy alloy. 2017 , 5, 300-305	8
1247	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. 2017 , 686, 34-40	46
1246	Semi-solid processing of the CoCrCuFeNi high entropy alloy. 2017 , 119, 406-416	34
1245	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entropy alloys. 2017 , 84, 153-157	160
1244	Combining thermodynamic modeling and 3D printing of elemental powder blends for high-throughput investigation of high-entropy alloys \square Towards rapid alloy screening and design. 2017 , 688, 180-189	100
1243	The Effect of Electronic Structure on the Phases Present in High Entropy Alloys. 2017 , 7, 39803	37
1242	Cuckoo searching optimal composition of multicomponent alloys by molecular simulations. 2017 , 130, 292-296	18
1241	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. 2017 , 131, 42-46	59
1240	Synthesis and characterization of refractory TiZrNbWMo high-entropy alloy coating by laser cladding. 2017 , 311, 321-329	105
1239	Microstructure, Mechanical Properties, and Oxidation Behavior of Al _x Cr _{0.4} CuFe _{0.4} MnNi High Entropy Alloys . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600726	3-5 24
1238	Impact of aluminum doping on the thermo-physical properties of refractory medium-entropy alloys. 2017 , 121, 015105	15
1237	Parametric Study of Amorphous High-Entropy Alloys formation from two New Perspectives: Atomic Radius Modification and Crystalline Structure of Alloying Elements. 2017 , 7, 39917	15
1236	Microstructure and mechanical properties of Ni _{1,5} Co _{1,5} CrFeTi _{0,5} high entropy alloy fabricated by mechanical alloying and spark plasma sintering. 2017 , 119, 141-150	66
1235	Modified embedded-atom method interatomic potentials for the Co-Cr, Co-Fe, Co-Mn, Cr-Mn and Mn-Ni binary systems. 2017 , 130, 121-129	38
1234	Room temperature nanoindentation creep behavior of TiZrHfBeCu(Ni) high entropy bulk metallic glasses. 2017 , 688, 174-179	42
1233	Nanocrystalline High-Entropy Alloys: A New Paradigm in High-Temperature Strength and Stability. 2017 , 17, 1569-1574	105
1232	Deformation mechanisms of Mo alloyed FeCoCrNi high entropy alloy: In situ neutron diffraction. 2017 , 127, 471-480	105

1231	Novel Fe ₃₆ Mn ₂₁ Cr ₁₈ Ni ₁₅ Al ₁₀ high entropy alloy with bcc/B2 dual-phase structure. 2017 , 705, 756-763	70
1230	Dislocation mechanisms and 3D twin architectures generate exceptional strength-ductility-toughness combination in CrCoNi medium-entropy alloy. 2017 , 8, 14390	231
1229	Constitutive modeling of deformation behavior of high-entropy alloys with face-centered cubic crystal structure. 2017 , 5, 350-356	35
1228	Research and development status of laser cladding on magnesium alloys: A review. 2017 , 93, 195-210	135
1227	Corrosion of Al CoCrFeNi high-entropy alloys: Al-content and potential scan-rate dependent pitting behavior. 2017 , 119, 33-45	310
1226	Controlled Jahn-Teller distortion in (MgCoNiCuZn)O-based high entropy oxides. 2017 , 704, 693-700	110
1225	Oxide dispersion strengthened CoCrFeNiMn high-entropy alloy. 2017 , 689, 252-256	93
1224	Cu assisted stabilization and nucleation of L12 precipitates in Al _{0.3} CuFeCrNi ₂ fcc-based high entropy alloy. 2017 , 129, 170-182	79
1223	Tailoring magnetic behavior of CoFeMnNiX (X= Al, Cr, Ga, and Sn) high entropy alloys by metal doping. 2017 , 130, 10-18	143
1222	DFT study of the hexagonal high-entropy alloy fission product system. 2017 , 488, 70-74	12
1221	Deformation stimulated precipitation of a single-phase CoCrFeMnNi high entropy alloy. 2017 , 85, 90-97	64
1220	Liquid-phase separation of immiscible CrCu _x FeMo _y Ni high-entropy alloys. 2017 , 33, 1352-1359	12
1219	High-velocity deformation of AlCoCrFeNi high-entropy alloy: Remarkable resistance to shear failure. 2017 , 7, 42742	85
1218	Microstructures and properties of equiatomic CuZr and CuZrAlTiNi bulk alloys fabricated by mechanical alloying and spark plasma sintering. 2017 , 52, 5726-5737	10
1217	Atomic-scale dynamics of edge dislocations in Ni and concentrated solid solution NiFe alloys. 2017 , 701, 1003-1008	37
1216	Optimizing the coupled effects of Hall-Petch and precipitation strengthening in a Al 0.3 CoCrFeNi high entropy alloy. 2017 , 121, 254-260	195
1215	Strain-rate effect upon the tensile behavior of CoCrFeNi high-entropy alloys. 2017 , 689, 366-369	49
1214	Phase evolution and properties in laser surface alloying of FeCoCrAlCuNi high-entropy alloy on copper substrate. 2017 , 315, 368-376	60

1213	Pressure-induced phase transitions in HoDyYGdTb high-entropy alloy. 2017 , 196, 137-140	31
1212	Microstructure of Al _{1.3} CrFeNi eutectic high entropy alloy and oxidation behavior at 1000 °C. 2017 , 32, 2109-2116	22
1211	Future Directions in the Field of High-Temperature Corrosion Research. 2017 , 87, 681-704	18
1210	Ultra-High Strength TiC/Refractory High-Entropy-Alloy Composite Prepared by Powder Metallurgy. 2017 , 69, 651-656	35
1209	Reversible deformation-induced martensitic transformation in Al _{0.6} CoCrFeNi high-entropy alloy investigated by in situ synchrotron-based high-energy X-ray diffraction. 2017 , 128, 12-21	72
1208	Amorphous phase formation rules in high-entropy alloys. 2017 , 26, 018104	19
1207	Structure and properties of cast and splat-quenched high-entropy AlCuBeNiSi alloys. 2017 , 118, 39-47	11
1206	Sintering and heat treatment of Al ₁₅ Ti ₅ Co ₃₅ Ni ₂₅ Fe ₂₀ high-entropy alloy. 2017 , 179, 012027	5
1205	Application of the thermodynamic extremal principle to phase-field modeling of non-equilibrium solidification in multi-component alloys. 2017 , 128, 258-269	10
1204	The fcc solid solution stability in the Co-Cr-Fe-Mn-Ni multi-component system. 2017 , 128, 327-336	129
1203	Dislocation cross-slip in fcc solid solution alloys. 2017 , 128, 135-148	50
1202	Precipitation and Hardness of Carbonitrides in a CrMnFeCoNi High Entropy Alloy. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600715	3-5 10
1201	Seaweed eutectic-dendritic solidification pattern in a CoCrFeNiMnPd eutectic high-entropy alloy. 2017 , 85, 74-79	42
1200	A high-entropy V ₃₅ Ti ₃₅ Fe ₁₅ Cr ₁₀ Zr ₅ alloy with excellent high-temperature strength. 2017 , 121, 229-236	46
1199	Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. 2017 , 689, 122-133	109
1198	Electrodeposition of multicomponent CoCrBeMnNi alloy. 2017 , 61, 54-58	
1197	Influence of sequence of elemental addition on phase evolution in nanocrystalline AlCoCrFeNi: Novel approach to alloy synthesis using mechanical alloying. 2017 , 126, 37-46	54
1196	Monocrystalline elastic constants of fcc-CrMnFeCoNi high entropy alloy. 2017 , 2, 1429-1434	8

1195	Effect of cooling rate on the phase structure and magnetic properties of Fe 26.7 Co 28.5 Ni 28.5 Si 4.6 B 8.7 P 3 high entropy alloy. 2017 , 435, 184-186	25
1194	Ageing behaviour of equiatomic consolidated Al ₂₀ Co ₂₀ Cu ₂₀ Ni ₂₀ Zn ₂₀ high entropy alloy. 2017 , 129, 127-134	14
1193	Phase evolution characteristics and corrosion behavior of FeCoCrAlCu-X0.5 coatings on cp Cu by laser high-entropy alloying. 2017 , 94, 68-71	29
1192	Size effects on the mechanical properties of nanocrystalline NbMoTaW refractory high entropy alloy thin films. 2017 , 95, 264-277	74
1191	From diluted solid solutions to high entropy alloys: On the evolution of properties with composition of multi-components alloys. 2017 , 696, 228-235	28
1190	Dual mechanisms of grain refinement in a FeCoCrNi high-entropy alloy processed by high-pressure torsion. 2017 , 7, 46720	46
1189	Plasticity performance of Al _{0.5} CoCrCuFeNi high-entropy alloys under nanoindentation. 2017 , 24, 390-396	6
1188	Microstructures and properties of CuZrAl and CuZrAlTi medium entropy alloys prepared by mechanical alloying and spark plasma sintering. 2017 , 24, 448-454	3
1187	Radiation damage buildup and dislocation evolution in Ni and equiatomic multicomponent Ni-based alloys. 2017 , 490, 323-332	49
1186	Phase Stability of a Mechanically Alloyed CoCrCuFeNi High Entropy Alloy . <i>Advanced Engineering Materials</i> , 2017 , 19, 1700095	3,5 26
1185	Processing and characterization of TiB ₂ -TiNiFeCrCoAl high-entropy alloy composite. 2017 , 100, 2803-2813	29
1184	Dynamic deformation behaviors and constitutive relations of an AlCoCr 1.5 Fe 1.5 NiTi 0.5 high-entropy alloy. 2017 , 136, 15-19	40
1183	Composition dependence of structure, physical and mechanical properties of FeCoNi(MnAl) _x high entropy alloys. 2017 , 87, 21-26	81
1182	Investigation of Lattice Defects in a Plastically Deformed High-Entropy Alloy. 2017 , 885, 74-79	3
1181	Big-data analysis of phase-formation rules in high-entropy alloys. 2017 , 24, 358-365	2
1180	Microstructure and texture evolution during severe plastic deformation of CrMnFeCoNi high-entropy alloy. 2017 , 194, 012028	21
1179	The evolution of the deformation substructure in a Ni-Co-Cr equiatomic solid solution alloy. 2017 , 132, 35-48	223
1178	Deformation twinning behaviors of the low stacking fault energy high-entropy alloy: An in-situ TEM study. 2017 , 137, 9-12	62

1177	On the strain rate-dependent deformation mechanism of CoCrFeMnNi high-entropy alloy at liquid nitrogen temperature. 2017 , 5, 472-477	54
1176	Study on a High Entropy Alloy by High Energy Synchrotron X-Ray Diffraction and Small Angle Neutron Scattering. 2017 , 88, 1700079	7
1175	Deformation-induced phase transformation of Co 20 Cr 26 Fe 20 Mn 20 Ni 14 high-entropy alloy during high-pressure torsion at 77 K. 2017 , 202, 86-88	40
1174	Oxidation and Corrosion resistance of AlCoCrFeTiHigh Entropy Alloy. 2017 , 4, 195-202	19
1173	An investigation on the effects of Co, Ti and Si on microstructure, hardness and wear properties of AlCuNiFe based entropy alloys. 2017 , 4, 178-187	6
1172	Nanoindentation study on the room temperature creep characteristics of a senary Ti 16.7 Zr 16.7 Hf 16.7 Cu 16.7 Ni 16.7 Be 16.7 high entropy bulk metallic glass. 2017 , 470, 27-37	28
1171	Effects of milling on the corrosion behavior of Al2NbTi3V2Zr high-entropy alloy system in 10% nitric acid solution. 2017 , 68, 1080-1089	8
1170	Effect of strain path on microstructure and texture formation in cold-rolled and annealed FCC equiatomic CoCrFeMnNi high entropy alloy. 2017 , 87, 94-103	17
1169	Structure of the high-entropy alloy Al CrFeCoNi: fcc versus bcc. 2017 , 715, 454-459	61
1168	Effect of coherent L12 nanoprecipitates on the tensile behavior of a fcc-based high-entropy alloy. 2017 , 696, 503-510	68
1167	An ab initio and experimental studies of the structure, mechanical parameters and state density on the refractory high-entropy alloy systems. 2017 , 714, 668-680	40
1166	Investigating phase formations in cast AlFeCoNiCu high entropy alloys by combination of computational modeling and experiments. 2017 , 127, 224-232	27
1165	Peculiarities and usefulness of multicomponent bulk metallic alloys. 2017 , 707, 12-19	21
1164	The origin of negative stacking fault energies and nano-twin formation in face-centered cubic high entropy alloys. 2017 , 130, 96-99	143
1163	Structure and properties of ultrafine-grained CoCrFeMnNi high-entropy alloys produced by mechanical alloying and spark plasma sintering. 2017 , 698, 591-604	125
1162	Strengthening mechanisms in equiatomic ultrafine grained AlCoCrCuFeNi high-entropy alloy studied by micro- and nanoindentation methods. 2017 , 125, 58-68	140
1161	Microstructure and corrosion properties of CrMnFeCoNi high entropy alloy coating. 2017 , 396, 1420-1426	184
1160	In the quest of single phase multi-component multiprincipal high entropy alloys. 2017 , 697, 434-442	58

1159	Mapping the world of complex concentrated alloys. 2017 , 135, 177-187	187
1158	Exploring the high entropy alloy concept in (AlTiVNbCr)N. 2017 , 636, 346-352	20
1157	Thermal expansion in FeCrCoNiGa high-entropy alloy from theory and experiment. 2017 , 110, 241902	16
1156	Revealing the Microstates of Body-Centered-Cubic (BCC) Equiatomic High Entropy Alloys. 2017 , 38, 404-415	14
1155	Wettability of molten Sn on AlCoCrCuFeNi high-entropy alloy. 2017 , 199, 1-6	6
1154	Friction stir welding of a CoCrFeNiAl _{0.3} high entropy alloy. 2017 , 205, 142-144	56
1153	High-entropy alloy CoCrFeMnNi produced by powder metallurgy. 2017 , 60, 184-197	47
1152	Effect of temperature on the fatigue-crack growth behavior of the high-entropy alloy CrMnFeCoNi. 2017 , 88, 65-72	110
1151	The phase stability of equiatomic CoCrFeMnNi high-entropy alloy: Comparison between experiment and calculation results. 2017 , 719, 189-193	62
1150	Precipitation strengthening of ductile Cr 15 Fe 20 Co 35 Ni 20 Mo 10 alloys. 2017 , 137, 88-93	103
1149	Predicting solid solubility in CoCrFeNiM _x (M = 4d transition metal) high-entropy alloys. 2017 , 121, 194903	24
1148	Microstructure and Room-Temperature Mechanical Properties of FeCrMoVTi _x High-Entropy Alloys. 2017 , 26, 3071-3078	9
1147	Creep Behaviors of CrMnFeCoNi High Entropy Alloy at Intermediate Temperatures. 2017 , 737, 21-26	0
1146	Twinning-mediated work hardening and texture evolution in CrCoFeMnNi high entropy alloys at cryogenic temperature. 2017 , 131, 419-427	41
1145	Cryogenic strength improvement by utilizing room-temperature deformation twinning in a partially recrystallized VCrMnFeCoNi high-entropy alloy. 2017 , 8, 15719	190
1144	Combinatorial exploration of the High Entropy Alloy System Co-Cr-Fe-Mn-Ni. 2017 , 325, 174-180	30
1143	Effects of annealing on the microstructural evolution and phase transition in an AlCrCuFeNi high-entropy alloy. 2017 , 101, 69-77	21
1142	Mechanical and microstructural characterization of powder metallurgy CoCrNi medium entropy alloy. 2017 , 701, 370-380	67

1141	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. 2017 , 29, 1701678		280
1140	Atomistic simulations of dislocation behavior in a model FCC multicomponent concentrated solid solution alloy. 2017 , 134, 188-194		67
1139	High pressure synthesis of a hexagonal close-packed phase of the high-entropy alloy CrMnFeCoNi. 2017 , 8, 15634		177
1138	Hardening and thermal stability of a nanocrystalline CoCrFeNiMnTi0.1 high-entropy alloy processed by high-pressure torsion. 2017 , 194, 012017		9
1137	Activation Energy and High Temperature Oxidation Behavior of Multi-Principal Element Alloy. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700182	3-5	18
1136	Polymorphism in a high-entropy alloy. 2017 , 8, 15687		151
1135	Thermal sprayed high-entropy NiCo0.6Fe0.2Cr1.5SiAlTi0.2 coating with improved mechanical properties and oxidation resistance. 2017 , 89, 105-110		45
1134	Formation of Random Solid Solution in Multicomponent Alloys: from Hume-Rothery Rules to Entropic Stabilization. 2017 , 38, 416-425		25
1133	Resistance of CoCrFeMnNi high-entropy alloy to gaseous hydrogen embrittlement. 2017 , 135, 54-58		113
1132	Modified embedded-atom interatomic potential for Fe-Ni, Cr-Ni and Fe-Cr-Ni systems. 2017 , 57, 98-106		33
1131	Prediction of structure and elastic properties of AlCrFeNiTi system high entropy alloys. 2017 , 86, 134-146		36
1130	Defect structure and hardness in nanocrystalline CoCrFeMnNi High-Entropy Alloy processed by High-Pressure Torsion. 2017 , 711, 143-154		73
1129	Impurity-controlled film growth and elastic properties of CoCrCuFeNi thin films. 2017 , 315, 475-483		13
1128	Preparation and microstructure of CuNiTiZr medium-entropy alloy coatings on TC11 substrate via electrospray computer numerical control deposition process. 2017 , 197, 143-145		11
1127	Facile, Large-Scale, and Expedient Synthesis of Hollow Co and Co@Fe Nanostructures: Application for Electromagnetic Wave Absorption. 2017 , 121, 8557-8568		27
1126	Superplastic-like flow in a fine-grained equiatomic CoCrFeMnNi high-entropy alloy. 2017 , 5, 408-414		44
1125	Secondary phases in Al _x CoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. 2017 , 131, 206-220		194
1124	A TRIP-assisted dual-phase high-entropy alloy: Grain size and phase fraction effects on deformation behavior. 2017 , 131, 323-335		323

1123	First-Principles Selection of Solute Elements for Er-Stabilized Bi ₂ O ₃ Oxide-Ion Conductor with Improved Long-Term Stability at Moderate Temperatures. 2017 , 29, 3763-3768	20
1122	The Microstructure Stability of Precipitation Strengthened Medium to High Entropy Superalloys. 2017 , 48, 2435-2442	21
1121	In situ TEM tensile testing on high-entropy alloy coating by laser surface alloying. 2017 , 708, 380-384	16
1120	Microwave processing of high entropy alloys: A powder metallurgy approach. 2017 , 122, 397-403	23
1119	On single-phase status and segregation of an as-solidified septenary refractory high entropy alloy. 2017 , 7, 78-83	11
1118	Stacking fault energies of nondilute binary alloys using special quasirandom structures. 2017 , 95,	5
1117	Air-oxidation of FeCoNiCr-based quinary high-entropy alloys at 700-800 °C. 2017 , 121, 116-125	81
1116	Critical assessment: opportunities in developing semi-solid processing: aluminium, magnesium, and high-temperature alloys. 2017 , 33, 759-764	16
1115	Plurality of inherent states in equiatomic solid solutions. 2017 , 95,	
1114	Friction stress and Hall-Petch relationship in CoCrNi equi-atomic medium entropy alloy processed by severe plastic deformation and subsequent annealing. 2017 , 134, 33-36	196
1113	Interplay of electronic, structural and magnetic properties as the driving feature of high-entropy CoCrFeNiPd alloys. 2017 , 50, 185002	16
1112	Atomic-level heterogeneity and defect dynamics in concentrated solid-solution alloys. 2017 , 21, 221-237	110
1111	In-situ high-resolution transmission electron microscopy investigation of grain boundary dislocation activities in a nanocrystalline CrMnFeCoNi high-entropy alloy. 2017 , 709, 802-807	34
1110	Superconductivity in thermally annealed Ta-Nb-Hf-Zr-Ti high-entropy alloys. 2017 , 695, 3530-3540	62
1109	Comparison between ultrafine-grained WC-Co and WC-BiEA-cemented carbides. 2017 , 60, 1-6	29
1108	Deformation mechanisms of Al _{0.1} CoCrFeNi at elevated temperatures. 2017 , 684, 552-558	23
1107	Rare-earth high-entropy alloys with giant magnetocaloric effect. 2017 , 125, 481-489	112
1106	Mechanical properties of the CoCrFeNiMnV x high entropy alloys in temperature range 4.2-300K. 2017 , 698, 501-509	36

1105	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. 2017 , 126, 182-193	102
1104	Thermophysical properties of Ni-containing single-phase concentrated solid solution alloys. 2017 , 117, 185-192	69
1103	Predicting single phase CrMoWX high entropy alloys from empirical relations in combination with first-principles calculations. 2017 , 83, 9-16	15
1102	Phase evolution and cavitation erosion-corrosion behavior of FeCoCrAlNiTi x high entropy alloy coatings on 304 stainless steel by laser surface alloying. 2017 , 698, 761-770	122
1101	CoCrFeNi(W1%Mo) high-entropy alloy coatings with excellent mechanical properties and corrosion resistance prepared by mechanical alloying and hot pressing sintering. 2017 , 117, 193-202	112
1100	Serration behavior and negative strain rate sensitivity of Al _{0.1} CoCrFeNi high entropy alloy. 2017 , 84, 20-24	36
1099	Microstructure, mechanical and corrosion behaviors of AlCoCuFeNi-(Cr,Ti) high entropy alloys. 2017 , 116, 438-447	111
1098	Damage buildup and edge dislocation mobility in equiatomic multicomponent alloys. 2017 , 393, 114-117	17
1097	Elastic and thermal properties of refractory high-entropy alloys from first-principles calculations. 2017 , 128, 185-190	35
1096	Atomistic simulations of dislocations in a model BCC multicomponent concentrated solid solution alloy. 2017 , 125, 311-320	102
1095	TiZrNbTaMo high-entropy alloy designed for orthopedic implants: As-cast microstructure and mechanical properties. 2017 , 73, 80-89	129
1094	MnFeNiCuPt and MnFeNiCuCo high-entropy alloys designed based on L1 ₀ structure in Pettifor map for binary compounds. 2017 , 82, 107-115	20
1093	Effect of synthesis route on structure and properties of AlCoCrFeNi high-entropy alloy. 2017 , 83, 1-8	54
1092	Strengthening in Al _{0.25} CoCrFeNi high-entropy alloys by cold rolling. 2017 , 707, 593-601	64
1091	Influence of increasing Al concentration on phase, microstructure and mechanical behaviors of Ni _{1.5} CoFeCu _{1-x} Al _x V _{0.5} high entropy alloys. 2017 , 708, 523-536	10
1090	The potential for achieving superplasticity in high-entropy alloys processed by severe plastic deformation. 2017 , 194, 012040	4
1089	Dislocation dynamics in Al _{0.1} CoCrFeNi high-entropy alloy under tensile loading. 2017 , 91, 31-34	30
1088	Effect of Aluminum Addition on Al _x CoFeMnNiZn Multi-Component Production. 2017 , 751, 53-59	1

1087	Shock wave compaction and sintering of mechanically alloyed CoCrFeMnNi high-entropy alloy powders. 2017 , 708, 291-300	26
1086	The High Temperature Tensile and Creep Behaviors of High Entropy Superalloy. 2017 , 7, 12658	93
1085	Impacts of atomic scale lattice distortion on dislocation activity in high-entropy alloys. 2017 , 17, 38-42	31
1084	Design and microstructure characterization of FeCoNiAlCu high-entropy alloy coating by plasma cladding: In comparison with thermodynamic calculation. 2017 , 330, 163-169	36
1083	High Thermoelectric Performance of New Rhombohedral Phase of GeSe stabilized through Alloying with AgSbSe ₂ . 2017 , 129, 14301-14306	15
1082	Physical metallurgy of concentrated solid solutions from low-entropy to high-entropy alloys. 2017 , 21, 299-311	33
1081	Thermodynamics of concentrated solid solution alloys. 2017 , 21, 238-251	95
1080	Spin-Orbit Torque from a Magnetic Heterostructure of High-Entropy Alloy. 2017 , 8,	2
1079	Computational modeling of high-entropy alloys: Structures, thermodynamics and elasticity. 2017 , 32, 3627-3641	38
1078	Formation of a hexagonal closed-packed phase in Al _{0.5} CoCrFeNi high entropy alloy. 2017 , 7, 879-884	13
1077	Giant Enhancement of Exchange Coupling in Entropy-Stabilized Oxide Heterostructures. 2017 , 7, 13344	84
1076	Direct laser deposition cladding of Al CoCrFeNi high entropy alloys on a high-temperature stainless steel. 2017 , 332, 440-451	90
1075	Phase selection rule for Al-doped CrMnFeCoNi high-entropy alloys from first-principles. 2017 , 140, 366-374	45
1074	Microstructure and mechanical properties of CoCrFeNiZrx eutectic high-entropy alloys. 2017 , 134, 226-233	114
1073	Strong and Ductile Non-equiatomic High-Entropy Alloys: Design, Processing, Microstructure, and Mechanical Properties. 2017 , 69, 2099-2106	150
1072	Orientation Relationships in Al _{0.7} CoCrFeNi High-Entropy Alloy. 2017 , 23, 905-915	14
1071	High-Entropy Alloys: A Current Evaluation of Founding Ideas and Core Effects and Exploring Nonlinear Alloys 2017 , 69, 2130-2136	66
1070	Thermal Expansion, Elastic and Magnetic Properties of FeCoNiCu-Based High-Entropy Alloys Using First-Principle Theory. 2017 , 69, 2107-2112	23

1069	Additive manufacturing of metals: a brief review of the characteristic microstructures and properties of steels, Ti-6Al-4V and high-entropy alloys. 2017 , 18, 584-610	434
1068	Thermal stability and grain boundary strengthening in ultrafine-grained CoCrFeNi high entropy alloy composite. 2017 , 134, 426-433	137
1067	The Role of Compositional Tuning of the Distributed Exchange on Magnetocaloric Properties of High-Entropy Alloys. 2017 , 69, 2125-2129	25
1066	Influence of compressive strain on the microstructural evolution of an AlCoCrFeNi high entropy alloy. 2017 , 132, 162-168	26
1065	Severe plastic deformation driven nanostructure and phase evolution in a Al 0.5 CoCrFeMnNi dual phase high entropy alloy. 2017 , 91, 150-157	44
1064	In Situ Laser Synthesis of High Entropy Alloy Coating on Ti-6Al-4V Alloy: Characterization of Microstructure and Properties. 2017 , 898, 643-650	5
1063	Defects and Diffusion in Ordered Compounds. 2017 , 449-517	4
1062	Periodic Maximum Entropy Random Structure Models for High-Entropy Alloys. 2017 , 898, 611-621	4
1061	High Thermoelectric Performance of New Rhombohedral Phase of GeSe stabilized through Alloying with AgSbSe. 2017 , 56, 14113-14118	46
1060	Diffusion in Multicomponent Alloys. 2017 , 203-237	2
1059	On deformation behavior of Fe-Mn based structural alloys. 2017 , 122, 1-28	70
1058	Microstructure and thermal stability of a Ni-Cr-Co-Ti-V-Al high-entropy alloy coating by laser surface alloying. 2017 , 23, 1012-1018	19
1057	Microstructure evolution and properties of CrCuFe x NiTi high-entropy alloy coating by plasma cladding on Q235. 2017 , 328, 313-318	24
1056	Corrosion of high entropy alloys. 2017 , 1,	169
1055	Design of new face-centered cubic high entropy alloys by thermodynamic calculation. 2017 , 23, 839-847	48
1054	A new strategy to design eutectic high-entropy alloys using mixing enthalpy. 2017 , 91, 124-128	124
1053	Preparation of high-entropy AlCoCrCuFeNiSi alloy powders by gas atomization process. 2017 , 202, 151-158	29
1052	Effect of V content on microstructure and properties of laser-solidified Fe ₆₀ (NiCrCoTiV _x) ₄₀ (x = 0, 0.5, 1) multicomponent alloy coatings on AISI 1045 steel. 2017 , 132, 373-380	13

1051	Intermediate strain rate deformation behavior of a CoCrFeMnNi high-entropy alloy. 2017 , 707, 16-21	21
1050	Hydrogen enhances strength and ductility of an equiatomic high-entropy alloy. 2017 , 7, 9892	98
1049	Topologically Close-packed Phase Formation in High Entropy Alloys: A Review of Calphad and Experimental Results. 2017 , 69, 2113-2124	14
1048	Fundamental deformation behavior in high-entropy alloys: An overview. 2017 , 21, 252-266	167
1047	Effect of heat treatment on the structure and hardness of high-entropy alloys CoCrFeNiMnV _x (x = 0.25, 0.5, 0.75, 1). 2017 , 118, 579-590	16
1046	Understanding of the Elemental Diffusion Behavior in Concentrated Solid Solution Alloys. 2017 , 38, 434-444	49
1045	Cr-induced fast vacancy cluster formation and high Ni diffusion in concentrated Ni-Fe-Cr alloys. 2017 , 725, 449-460	17
1044	Microstructural origins of high strength and high ductility in an AlCoCrFeNi _{2.1} eutectic high-entropy alloy. 2017 , 141, 59-66	266
1043	Trade-off between tensile property and formability by partial recrystallization of CrMnFeCoNi high-entropy alloy. 2017 , 703, 324-330	59
1042	On Interdiffusion in FeNiCoCrMn High Entropy Alloy. 2017 , 38, 445-456	35
1041	Hume-Rothery for HEA classification and self-organizing map for phases and properties prediction. 2017 , 724, 353-364	31
1040	The nanostructure and mechanical properties of nanocomposite Nb _x -CoCrCuFeNi thin films. 2017 , 139, 155-158	22
1039	Enhanced strength and ductility of bulk CoCrFeMnNi high entropy alloy having fully recrystallized ultrafine-grained structure. 2017 , 133, 122-127	234
1038	Insights into the deformation behavior of the CrMnFeCoNi high-entropy alloy revealed by elevated temperature nanoindentation. 2017 , 32, 2658-2667	32
1037	Recent Progress in High Entropy Alloy Research. 2017 , 69, 2024-2031	53
1036	Crystallization kinetics in Al _x CrCoFeNi (0 ≤ x ≤ 40) high-entropy alloys. 2017 , 141, 54-57	29
1035	Magnetic properties of the CrMnFeCoNi high-entropy alloy. 2017 , 96,	74
1034	Accurate representation of formation energies of crystalline alloys with many components. 2017 , 139, 26-30	18

1033	Microstructures and electrothermal properties of Al _x CrFeNi multi-component alloys. 2017 , 144, 80-85	22
1032	High strain rate sensitivity of hardness in quinary Ti-Zr-Hf-Cu-Ni high entropy metallic glass thin films. 2017 , 94, 100-105	16
1031	Microstructure and Properties of AlCoCrFeNiB _x (x=0, 0.1, 0.25, 0.5, 0.75, 1.0) High Entropy Alloys. 2017 , 46, 651-656	9
1030	Effect of Carbon Addition on the Cast and Rolled Microstructures of FeCoCrNiMn High Entropy Alloys. 2017 , 737, 16-20	0
1029	Short-Range Order in High Entropy Alloys: Theoretical Formulation and Application to Mo-Nb-Ta-V-W System. 2017 , 38, 391-403	53
1028	Structure and mechanical properties of B2 ordered refractory AlNbTiVZr _x (x = 0-1.5) high-entropy alloys. 2017 , 704, 82-90	103
1027	Serration and noise behaviors in materials. 2017 , 90, 358-460	128
1026	Microstructure and Mechanical Properties of a Refractory CoCrMoNbTi High-Entropy Alloy. 2017 , 26, 3657-3665	28
1025	Evaluation of Calphad Approach and Empirical Rules on the Phase Stability of Multi-principal Element Alloys. 2017 , 38, 369-381	13
1024	Effect of High Configuration Entropy and Rare Earth Addition on Boride Precipitation and Mechanical Properties of Multi-principal-Element Alloys. 2017 , 26, 3750-3755	12
1023	Understanding the mechanical behaviour and the large strength/ductility differences between FCC and BCC Al _x CoCrFeNi high entropy alloys. 2017 , 726, 885-895	90
1022	Microstructure, mechanical properties and energetic characteristics of a novel high-entropy alloy HfZrTiTa _{0.53} . 2017 , 133, 435-443	28
1021	Entropy as a Gene-Like Performance Indicator Promoting Thermoelectric Materials. 2017 , 29, 1702712	130
1020	Microstructure and Properties of the Co ₂ NiWV _{0.5} Mo _{1.5} , Co ₂ NiWV _{0.5} Mo ₂ , and Co ₂ NiWV _{1.0} Mo ₂ Multi-Principal Elements Alloys. 2017 , 898, 622-627	1
1019	Phase stability, physical properties and strengthening mechanisms of concentrated solid solution alloys. 2017 , 21, 267-284	48
1018	Nanocrystalline high-entropy alloy (CoCrFeNiAl _{0.3}) thin-film coating by magnetron sputtering. 2017 , 638, 383-388	78
1017	Remarkable strength of CoCrFeNi high-entropy alloy wires at cryogenic and elevated temperatures. 2017 , 141, 125-128	48
1016	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. 2017 , 114, 13144-13147	72

1015	Energetic consideration of compounds at Mg ₂ Si/Ni electrode interlayer produced by spark-plasma sintering. 2017 , 56, 05DC03	6
1014	Enhanced strength and ductility in a friction stir processing engineered dual phase high entropy alloy. 2017 , 7, 16167	91
1013	Processing of High-Entropy AlCoCr _{0.75} Cu _{0.5} FeNi Alloy by Spray Forming. 2017 , 26, 5906-5920	4
1012	Mechanical properties of the high-entropy alloy Al _{0.5} CoCrCuFeNi in various structural states at temperatures of 0.5B00 K. 2017 , 43, 1108-1118	12
1011	Effects of Annealing on the Microstructure and Wear Resistance of AlCoCrFeNiTi 0.5 High-entropy Alloy Coating Prepared by Laser Cladding. 2017 , 46, 1237-1240	16
1010	Stacking fault energies of face-centered cubic concentrated solid solution alloys. 2017 , 134, 334-345	206
1009	Microstructural Evolution and Mechanical Properties in a Mn _{1.05} Fe _{1.05} CoNiCu _{0.9} High Entropy Alloy. 2017 , 737, 44-49	3
1008	Design of High-Entropy Alloy: A Perspective from Nonideal Mixing. 2017 , 69, 2092-2098	36
1007	TCHEA1: A Thermodynamic Database Not Limited for High Entropy Alloys. 2017 , 38, 353-368	68
1006	Direct electrochemical synthesis of high-entropy alloys from metal oxides. 2017 , 9, 111-121	25
1005	Ab initio assisted design of quinary dual-phase high-entropy alloys with transformation-induced plasticity. 2017 , 136, 262-270	179
1004	Microstructure and Mechanical Properties of VTaTiMoAl _x Refractory High Entropy Alloys. 2017 , 898, 638-642	13
1003	Cooling rate effect on microstructure and mechanical properties of Al _x CoCrFeNi high entropy alloys. 2017 , 132, 392-399	48
1002	Atomic and electronic basis for the serrations of refractory high-entropy alloys. 2017 , 3,	39
1001	High-entropy alloy coatings with excellent mechanical, corrosion resistance and magnetic properties prepared by mechanical alloying and hot pressing sintering. 2017 , 9, 36-43	52
1000	Deep Drawing Behavior of CoCrFeMnNi High-Entropy Alloys. 2017 , 48, 4111-4120	12
999	Corrosion behavior and surface film characterization of TaNbHfZrTi high entropy alloy in aggressive nitric acid medium. 2017 , 89, 123-132	47
998	Computationally-driven engineering of sublattice ordering in a hexagonal AlHfScTiZr high entropy alloy. 2017 , 7, 2209	46

997	Sol-gel Autocombustion Synthesis of Nanocrystalline High-entropy Alloys. 2017 , 7, 3421	43
996	Effects of chemical alternation on damage accumulation in concentrated solid-solution alloys. 2017 , 7, 4146	24
995	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. 2017 , 118, 205501	156
994	Phase evolution and magnetic characteristics of TiFeNiCr and TiFeNiCrM (M = Mn, Co) high entropy alloys. 2017 , 442, 218-223	39
993	Frequency Estimate for Multicomponent Crystalline Compounds. 2017 , 167, 726-734	5
992	High-entropy Al _{0.3} CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. 2017 , 123, 285-294	262
991	Processing, microstructure and properties of Ni _{1.5} CoCuFeCr _{0.5} V _x high entropy alloys with carbon introduced from process control agent. 2017 , 695, 462-475	43
990	Directly cast bulk eutectic and near-eutectic high entropy alloys with balanced strength and ductility in a wide temperature range. 2017 , 124, 143-150	483
989	Novel TiNbTaZrMo high-entropy alloys for metallic biomaterials. 2017 , 129, 65-68	163
988	Electronic structure and properties of (TiZrNbCu) _{1-x} Ni _x high entropy amorphous alloys. 2017 , 695, 2661-2668	10
987	Mechanical properties of refractory high-entropy alloys: Experiments and modeling. 2017 , 696, 1139-1150	177
986	CoCrFeNiTi-based high-entropy alloy with superior tensile strength and corrosion resistance achieved by a combination of additive manufacturing using selective electron beam melting and solution treatment. 2017 , 189, 148-151	81
985	Thermoelectric performance of PbSnTeSe high-entropy alloys. 2017 , 5, 187-194	50
984	Dislocation nucleation during nanoindentation in a body-centered cubic TiZrHfNb high-entropy alloy. 2017 , 130, 64-68	47
983	Ab initio study of structural, electronic, and thermal properties of Pt _{1-x} Pd _x alloys. 2017 , 31, 1650243	1
982	Dry-Sliding Wear Response of MoTaWNbV High Entropy Alloy. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600535	3-5 33
981	Additive manufacturing of an aluminum matrix composite reinforced with nanocrystalline high-entropy alloy particles. 2017 , 679, 193-203	85
980	A critical review of high entropy alloys and related concepts. 2017 , 122, 448-511	3114

979	A lightweight single-phase AlTiVCr compositionally complex alloy. 2017 , 123, 115-124	97
978	Tension/compression asymmetry in additive manufactured face centered cubic high entropy alloy. 2017 , 129, 30-34	76
977	Mechanical size effects in a single crystalline equiatomic FeCrCoMnNi high entropy alloy. 2017 , 129, 52-55	36
976	Investigation of the phase stabilities in AlNiCoCrFe high entropy alloys. 2017 , 691, 119-129	62
975	Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. 2017 , 126, 15-19	165
974	Multicomponent equiatomic rare earth oxides. 2017 , 5, 102-109	148
973	Noble metal high entropy alloys. 2017 , 126, 29-32	51
972	Combinatorial synthesis of high entropy alloys: Introduction of a novel, single phase, body-centered-cubic FeMnCoCrAl solid solution. 2017 , 691, 683-689	51
971	Mechanical activated synthesis of alumina dispersed FeNiCoCrAlMn high entropy alloy. 2017 , 692, 720-726	30
970	Cooling rate-dependent microstructure and mechanical properties of Al _x Si _{0.2} CrFeCoNiCu _{1-x} high entropy alloys. 2017 , 694, 61-67	32
969	Effect of Niobium on Microstructure and Properties of the CoCrFeNb _x Ni High Entropy Alloys. 2017 , 33, 712-717	108
968	Powder metallurgical processing of equiatomic AlCoCrFeNi high entropy alloy: Microstructure and mechanical properties. 2017 , 679, 299-313	89
967	The effects of phase constitution on magnetic and mechanical properties of FeCoNi(CuAl) _(x=0.1-0.2) high-entropy alloys. 2017 , 693, 1061-1067	74
966	Mass transfer trends of AlCoCrFeNi high-entropy alloy coatings on TC11 substrate via electrospark computer numerical control deposition. 2017 , 241, 93-102	31
965	A ductile high entropy alloy with attractive magnetic properties. 2017 , 694, 55-60	122
964	Microstructure and mechanical properties of refractory HfMo _{0.5} NbTiV _{0.5} Si _x high-entropy composites. 2017 , 694, 869-876	84
963	The effects of Cr and Si additions and deposition conditions on the structure and properties of the (Zr-Ti-Nb) _N coatings. 2017 , 43, 771-782	30
962	An assessment of the lattice strain in the CrMnFeCoNi high-entropy alloy. 2017 , 122, 11-18	158

961	Preparation and microstructure of AlCoCrFeNi high-entropy alloy complex curve coatings. 2017 , 33, 559-566	3
960	Single-crystal growth of a FeCoCrMnAl high-entropy alloy. 2017 , 5, 128-134	13
959	Microstructure and mechanical properties of spark plasma sintered TiB ₂ ceramics combined with a high-entropy alloy sintering aid. 2017 , 116, 19-23	5
958	Designing high entropy alloys employing thermodynamics and Gaussian process statistical analysis. 2017 , 115, 486-497	57
957	Effects of aluminum on microstructure and compressive properties of Al-Cr-Fe-Ni eutectic multi-component alloys. 2017 , 681, 25-31	70
956	Strong grain-size effect on deformation twinning of an Al _{0.1} CoCrFeNi high-entropy alloy. 2017 , 5, 276-283	80
955	Annealing effect on the phase stability and mechanical properties of (FeNiCrMn)(100)Co high entropy alloys. 2017 , 695, 2945-2950	48
954	Phase formations in low density high entropy alloys. 2017 , 56, 19-28	29
953	Alloying effect on the elastic properties of refractory high-entropy alloys. 2017 , 114, 243-252	64
952	Thermally activated deformation and the rate controlling mechanism in CoCrFeMnNi high entropy alloy. 2017 , 682, 569-576	68
951	On The Superior High Temperature Hardness of Precipitation Strengthened High Entropy Ni-Based Alloys . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600475	3-5 27
950	Design and tensile properties of a bcc Ti-rich high-entropy alloy with transformation-induced plasticity. 2017 , 5, 110-116	107
949	Effect of thermomechanical processing on microstructure and mechanical properties of the carbon-containing CoCrFeNiMn high entropy alloy. 2017 , 693, 394-405	122
948	Thermodynamic design of high-entropy refractory alloys. 2017 , 694, 223-227	31
947	Advanced irradiation-resistant materials for Generation IV nuclear reactors. 2017 , 569-594	7
946	New soft magnetic Fe ₂₅ Co ₂₅ Ni ₂₅ (P, C, B) ₂₅ high entropy bulk metallic glasses with large supercooled liquid region. 2017 , 693, 25-31	47
945	Influence of laser re-melting and vacuum heat treatment on plasma-sprayed FeCoCrNiAl alloy coatings. 2017 , 24, 1199-1205	19
944	Corrosion behaviour of Al-Fe-Ti-V medium entropy alloy. 2017 , 272, 012028	3

943	Effect of severe cold-rolling and annealing on microstructure and mechanical properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy. 2017 , 194, 012018	17
942	Microstructure and Mechanical Properties of Equiatomic CrMnCoNiCu High Entropy Alloy. 2017 , 909, 39-43	1
941	Local Energies and Energy Fluctuations Applied to the High Entropy Alloy CrFeCoNi. 2017 , 86, 114704	9
940	Preparation of High Entropy Alloy Cu ₂₉ Zr ₃₂ Ti ₁₅ Al ₅ Ni ₁₉ with High Glass Forming Ability. 2017 , 46, 1810-1814	5
939	Preparation of FeCoNiCrMn High Entropy Alloy by Electrochemical Reduction of Solid Oxides in Molten Salt and Its Corrosion Behavior in Aqueous Solution. 2017 , 164, E575-E579	21
938	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. 2017 , 111, 251905	17
937	First-principles prediction of high-entropy-alloy stability. 2017 , 3,	47
936	Intermetallics and Alloys for High Temperature Applications. 2017 , 293-335	8
935	Microstructure and Corrosion Properties of Al _x FeCoCrNiCu (x =0.25, 0.5, 1.0) Thin Coatings on Steel Substrates Deposited by Electron Beam Evaporation. 2017 , 46, 3621-3625	5
934	Microstructure and properties of AlCrFeNi intermetallic for electronic packaging shell. 2017 ,	1
933	Synthesis and characterization of nanocrystalline CrFeCoNi alloy by high energetic mechanical alloying. 2017 ,	2
932	Structural Evolution and Performance Changes in FeCoCrNiAlNb _x High-Entropy Alloy Coatings Cladded by Laser. 2017 , 26, 2005-2012	13
931	Deformation Behavior of Al _{0.25} CoCrFeNi High-Entropy Alloy after Recrystallization. 2017 , 7, 111	23
930	Microstructure and Wear Behavior of FeCoCrNiMo _{0.2} High Entropy Coatings Prepared by Air Plasma Spray and the High Velocity Oxy-Fuel Spray Processes. 2017 , 7, 151	37
929	The Al Effects of Co-Free and V-Containing High-Entropy Alloys. 2017 , 7, 18	10
928	The BCC/B2 Morphologies in Al _x NiCoFeCr High-Entropy Alloys. 2017 , 7, 57	76
927	Face Centred Cubic Multi-Component Equiatomic Solid Solutions in the Au-Cu-Ni-Pd-Pt System. 2017 , 7, 135	15
926	Corrosion-Resistant High-Entropy Alloys: A Review. 2017 , 7, 43	329

925	Microstructure, Mechanical and Corrosion Behaviors of CoCrFeNiAl _{0.3} High Entropy Alloy (HEA) Films. 2017 , 7, 156	34
924	Effect of Heat Treatment on the Microstructure, Phase Distribution, and Mechanical Properties of AlCoCuFeMnNi High Entropy Alloy. 2017 , 2017, 1-6	5
923	Microstructure and properties of in - situ high entropy alloy matrix composites for electronic packaging shell. 2017 ,	
922	The Phase Composition and Microstructure of Al _x CoCrFeNiTi Alloys for the Development of High-Entropy Alloy Systems. 2017 , 7, 162	16
921	Complex Concentrated Alloys Including High Entropy Alloys. 2017 , 385-405	1
920	Alloy Design Approaches. 2017 , 43-56	
919	Experimental and numerical studies on the sluggish diffusion in face centered cubic Co-Cr-Cu-Fe-Ni high-entropy alloys. 2018 , 34, 1791-1798	53
918	Sintering mechanism of CoCrFeMnNi high-entropy alloy powders. 2018 , 61, 131-138	16
917	The microstructural evolution and hardness of the equiatomic CoCrCuFeNi high-entropy alloy in the semi-solid state. 2018 , 745, 75-83	34
916	Elastic moduli and thermal expansion coefficients of medium-entropy subsystems of the CrMnFeCoNi high-entropy alloy. 2018 , 746, 244-255	123
915	Integrated computational materials engineering of corrosion resistant alloys. 2018 , 2,	54
914	Simultaneous Strength-Ductility Enhancement of a Nano-Lamellar AlCoCrFeNi Eutectic High Entropy Alloy by Cryo-Rolling and Annealing. 2018 , 8, 3276	126
913	Microstructures and properties of high-entropy alloy films and coatings: a review. 2018 , 6, 199-229	184
912	High temperature deformation behavior of carbon-containing FeCoCrNiMn high entropy alloy. 2018 , 747, 571-579	28
911	Tensile and shear loading of four fcc high-entropy alloys: A first-principles study. 2018 , 97,	12
910	Corrosion behavior of an equiatomic CoCrFeMnNi high-entropy alloy compared with 304 stainless steel in sulfuric acid solution. 2018 , 134, 131-139	248
909	Study of microstructure and magnetic properties of AlNiCo(CuFe) high entropy alloy. 2018 , 746, 194-199	52
908	The influence of chemical heterogeneities on the local mechanical behavior of a high-entropy alloy: A micropillar compression study. 2018 , 721, 165-167	6

907	Cryogenic-deformation-induced phase transformation in an FeCoCrNi high-entropy alloy. 2018 , 6, 236-243	115
906	Processing and characterisation of nano crystalline AlCoCrCuFeTi _x high-entropy alloy. 2018 , 61, 139-148	9
905	Microstructures and mechanical properties of a welded CoCrFeMnNi high-entropy alloy. 2018 , 23, 585-595	44
904	Atomic-scale distorted lattice in chemically disordered equimolar complex alloys. 2018 , 150, 182-194	59
903	Superb strength and high plasticity in laves phase rich eutectic medium-entropy-alloy nanocomposites. 2018 , 106, 57-72	50
902	Comparison of the structure and properties of equiatomic and non-equiatomic multicomponent alloys. 2018 , 34, 988-991	11
901	Effect of Service Environment on Mechanical Properties of FeCoNiCrAl _{0.1} Alloy. 2018 , 913, 674-681	0
900	Critical stress for twinning nucleation in CrCoNi-based medium and high entropy alloys. 2018 , 149, 388-396	95
899	Deformation behaviors of Cu ₂₉ Zr ₃₂ Ti ₁₅ Al ₅ Ni ₁₉ high entropy bulk metallic glass during nanoindentation. 2018 , 443, 122-130	27
898	Effects of deposition parameters on the structure and mechanical properties of high-entropy alloy nitride films. 2018 , 18, 512-518	31
897	Effect of a minor titanium addition on the superplastic properties of a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. 2018 , 718, 468-476	31
896	Microstructure evolution and strengthening mechanism of Al _{0.4} CoCu _{0.6} NiSi _x (x=00.2) high entropy alloys prepared by vacuum arc melting and copper injection fast solidification. 2018 , 150, 84-95	24
895	Microstructure and Mechanical Properties of Al ₂₅ Fe ₂₅ Cr ₂₅ + 0.5xFe ₂₅ Ni ₂₅ + 0.5x (x = 19, 17, 15 at%) Multi-Component Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701057	3-5 4
894	Alloying Behavior and Properties of FeSiAlNiCox High Entropy Alloys Fabricated by Mechanical Alloying and Spark Plasma Sintering. 2018 , 24, 1112-1119	13
893	Fabrication and characterization of WC-HEA cemented carbide based on the CoCrFeNiMn high entropy alloy. 2018 , 746, 1-8	46
892	Solidification microstructures and calculated mixing enthalpies in CoCrCu containing alloys. 2018 , 15, 1-10	8
891	Kinetics of Glass Transition and Crystallization of a Zr ₄₀ Hf ₁₀ Ti ₄ Y ₁ Al ₁₀ Cu ₂₅ Ni ₇ Co ₂ Fe ₁ Bulk Metallic Glass with High Mixing Entropy. 2018 , 49, 2918-2928	10
890	Microstructure of equiatomic and non-equiatomic Ti-Nb-Ta-Zr-Mo high-entropy alloys for metallic biomaterials. 2018 , 753, 412-421	70

889	He behavior in Ni and Ni-based equiatomic solid solution alloy. 2018 , 505, 200-206	21
888	Preparation, structure, and properties of an AlCrMoNbZr high-entropy alloy coating for accident-tolerant fuel cladding. 2018 , 347, 13-19	62
887	Microstructures and Mechanical Properties of Ni _x CoCrFeMo _{0.1} Multi-component Alloys. 2018 , 293-300	
886	Analysis of Microstructure and Sliding Wear Behavior of Co _{1.5} CrFeNi _{1.5} Ti _{0.5} High-Entropy Alloy. 2018 , 27, 5177-5186	6
885	Comparative microstructural and corrosion development of VCrNiCoFeCu equiatomic multicomponent alloy produced by induction melting and spark plasma sintering. 2018 , 329, 012016	1
884	High-entropy fluorite oxides. 2018 , 38, 3578-3584	223
883	A single-phase bcc high-entropy alloy in the refractory Zr-Nb-Ti-V-Hf system. 2018 , 152, 40-43	55
882	A slow atomic diffusion process in high-entropy glass-forming metallic melts. 2018 , 51, 145301	5
881	Stress-Strain Responses of Multi-Phase CoCrCuMnNi and CoCrMnFeCu Alloys. 2018 , 765, 166-172	0
880	Adiabatic shear localization in the CrMnFeCoNi high-entropy alloy. 2018 , 151, 424-431	88
879	Effects of milling time, sintering temperature, Al content on the chemical nature, microhardness and microstructure of mechanochemically synthesized FeCoNiCrMn high entropy alloy. 2018 , 749, 834-843	23
878	Structure and properties of lightweight high entropy alloys: a brief review. 2018 , 5, 052001	37
877	A new type of (TiZrNbTaHf)N/MoN nanocomposite coating: Microstructure and properties depending on energy of incident ions. 2018 , 146, 132-144	41
876	Accelerated oxidation in ductile refractory high-entropy alloys. 2018 , 97, 58-66	40
875	Experimental and finite element simulation studies on hot deformation behaviour of AlCoCrFeNi _{2.1} eutectic high entropy alloy. 2018 , 749, 1115-1127	42
874	Boron doped ultrastrong and ductile high-entropy alloys. 2018 , 151, 366-376	139
873	Mechanical Enhancement of Core-Shell Microlattices through High-Entropy Alloy Coating. 2018 , 8, 5442	23
872	Characterization of microstructure and properties of electroless duplex Ni-W-P/Ni-P nano-ZrO ₂ composite coating. 2018 , 4, 36-42	18

871	Effect of nitrogen on corrosion behaviour of a novel high nitrogen medium-entropy alloy CrCoNiN manufactured by pressurized metallurgy. 2018 , 34, 1781-1790	57
870	Improving electromagnetic properties of FeCoNiSi _{0.4} Al _{0.4} high entropy alloy powders via their tunable aspect ratio and elemental uniformity. 2018 , 149, 173-183	41
869	Magnetically-driven phase transformation strengthening in high entropy alloys. 2018 , 9, 1363	174
868	Room-Temperature Mechanical Properties of V ₂₀ Nb ₂₀ Mo ₂₀ Ta ₂₀ W ₂₀ High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800028	3.5 11
867	Dynamic shear deformation of a CrCoNi medium-entropy alloy with heterogeneous grain structures. 2018 , 148, 407-418	130
866	Properties of (TiZrNbCu) _{1-x} Ni _x metallic glasses. 2018 , 745, 455-459	8
865	Transition in microstructural and mechanical behavior by reduction of sigma-forming element content in a novel high entropy alloy. 2018 , 145, 11-19	26
864	Growth (AlCrNbSiTiV)N thin films on the interrupted turning and properties using DCMS and HIPIMS system. 2018 , 440, 1-7	26
863	Homogenization of Al CoCrFeNi high-entropy alloys with improved corrosion resistance. 2018 , 133, 120-131	143
862	Design of high-entropy alloys with a single solid-solution phase: Average properties vs. their variances. 2018 , 742, 430-441	20
861	High strain rate sensitivity of hardness in Ti-Zr-Hf-Be-(Cu/Ni) high entropy bulk metallic glasses. 2018 , 742, 312-317	14
860	Effect of molybdenum on phases, microstructure and mechanical properties of Al _{0.5} CoCrFeMoxNi high entropy alloys. 2018 , 743, 514-522	32
859	Vacancy formation enthalpies of high-entropy FeCoCrNi alloy via first-principles calculations and possible implications to its superior radiation tolerance. 2018 , 34, 355-364	62
858	Heavy carbon alloyed FCC-structured high entropy alloy with excellent combination of strength and ductility. 2018 , 716, 150-156	91
857	The thermal-mechanical behavior of WTaMoNb high-entropy alloy via selective laser melting (SLM): experiment and simulation. 2018 , 96, 461-474	31
856	Microstructural evolution and mechanical performance of carbon-containing CoCrFeMnNi-C high entropy alloys. 2018 , 743, 115-125	66
855	Evolution of the phase structure after different heat treatments in NiCoFeCrGa high entropy alloy. 2018 , 743, 234-239	4
854	Transformation induced softening and plasticity in high entropy alloys. 2018 , 147, 35-41	100

853	In-situ SEM observation of phase transformation and twinning mechanisms in an interstitial high-entropy alloy. 2018 , 147, 236-246	108
852	A new pseudo binary strategy to design eutectic high entropy alloys using mixing enthalpy and valence electron concentration. 2018 , 143, 49-55	71
851	Thermodynamic mixing energy and heterogeneous diffusion uncover the mechanisms of radiation damage reduction in single-phase Ni-Fe alloys. 2018 , 147, 16-23	25
850	Mapping the magnetic transition temperatures for medium- and high-entropy alloys. 2018 , 95, 80-84	50
849	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. 2018 , 63, 362-368	43
848	Synthesis of FeCrVNbMn High Entropy Alloy by Mechanical Alloying and Study of their Microstructure and Mechanical Properties. 2018 , 669-675	1
847	Microstructure and corrosion properties of the low-density single-phase compositionally complex alloy AlTiVCr. 2018 , 133, 386-396	52
846	Cryogenic deformation mechanism of CrMnFeCoNi high-entropy alloy fabricated by laser additive manufacturing process. 2018 , 1, 33-39	43
845	A modified Johnson-Cook model for FeCoNiCr high entropy alloy over a wide range of strain rates. 2018 , 218, 103-105	22
844	Strain rate effects of dynamic compressive deformation on mechanical properties and microstructure of CoCrFeMnNi high-entropy alloy. 2018 , 719, 155-163	84
843	Coalescence and split of high-entropy polymer lamellar cocrystals. 2018 , 138, 188-202	11
842	Correlation between the magnetic properties and phase constitution of FeCoNi(CuAl) _{0.8} Ga (0 ≤ x ≤ 0.08) high-entropy alloys. 2018 , 746, 285-291	32
841	Evolutionary design of strong and stable high entropy alloys using multi-objective optimisation based on physical models, statistics and thermodynamics. 2018 , 143, 185-195	25
840	Influence of Annealing on Microstructure and Mechanical Properties of Refractory CoCrMoNbTi _{0.4} High-Entropy Alloy. 2018 , 49, 1313-1327	13
839	Influence of Cr removal on the microstructure and mechanical behaviour of a high-entropy Al _{0.8} Ti _{0.2} CoNiFeCr alloy fabricated by powder metallurgy. 2018 , 61, 106-114	6
838	Design of non-equiatomic medium-entropy alloys. 2018 , 8, 1236	48
837	Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. 2018 , 57, 2103-2110	80
836	Oxidation Behavior between 700 and 1300 °C of Refractory TiZrNbHfTa High-Entropy Alloys Containing Aluminum. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700948	3-5 51

835	The effect of Ti addition on phase selection of CoCrCu0.5FeNi high-entropy alloys. 2018 , 34, 473-479	8
834	Microstructure and mechanical properties of friction stir welded and laser welded high entropy alloy CrMnFeCoNi. 2018 , 24, 73-83	63
833	Science and technology in high-entropy alloys. 2018 , 61, 2-22	404
832	Sc ₂ Nb ₂ B ₂ Hf ₂ Pd and Sc ₂ Nb ₂ Ta ₂ B ₂ Hf ₂ Pd High-Entropy Alloy Superconductors on a CsCl-Type Lattice. 2018 , 30, 906-914	42
831	(TiZrNbTa)-Mo high-entropy alloys: Dependence of microstructure and mechanical properties on Mo concentration and modeling of solid solution strengthening. 2018 , 95, 59-72	68
830	Structure and hardness of B2 ordered refractory AlNbTiVZr0.5 high entropy alloy after high-pressure torsion. 2018 , 716, 308-315	19
829	Delayed damage accumulation by athermal suppression of defect production in concentrated solid solution alloys. 2018 , 6, 136-141	31
828	Non-isothermal crystallization kinetics of Ti ₂₀ Zr ₂₀ Hf ₂₀ Be ₂₀ (Cu ₅₀ Ni ₅₀) ₂₀ high-entropy bulk metallic glass. 2018 , 132, 979-988	6
827	Development of high-strength Co-free high-entropy alloys hardened by nanosized precipitates. 2018 , 148, 51-55	84
826	Friction and wear behavior of a single-phase equiatomic TiZrHfNb high-entropy alloy studied using a nanoscratch technique. 2018 , 147, 78-89	86
825	Controlled formation of coherent cuboidal nanoprecipitates in body-centered cubic high-entropy alloys based on Al ₂ (Ni,Co,Fe,Cr) ₁₄ compositions. 2018 , 147, 213-225	139
824	Microstructure and mechanical properties of heat treated Al _{1.25} CoCrCuFeNi high entropy alloys. 2018 , 714, 146-159	24
823	Microstructures and properties of CoCrCuFeNiMox high-entropy alloys fabricated by mechanical alloying and spark plasma sintering. 2018 , 61, 115-122	22
822	Phase stability and distortion in high-entropy oxides. 2018 , 146, 119-125	98
821	Influence of strain on the formation of cold-rolling and grain growth textures of an equiatomic HfZrTiTaNb refractory high entropy alloy. 2018 , 136, 286-292	20
820	Excellent glass forming ability and plasticity in high entropy Zr ₂₀ Ti ₂₀ Hf ₂₀ M ₂₀ Be ₂₀ (M = Cu, Ni, Co) alloys. 2018 , 8, 253-256	4
819	Rare earth and transition metal based entropy stabilised perovskite type oxides. 2018 , 38, 2318-2327	192
818	Synthesis and microstructure of the (Co,Cr,Fe,Mn,Ni) ₃ O ₄ high entropy oxide characterized by spinel structure. 2018 , 216, 32-36	219

817	Effects of Tungsten Addition on the Microstructure and Mechanical Properties of Near-Eutectic AlCoCrFeNi ₂ High-Entropy Alloy. 2018 , 27, 109-115	24
816	Abnormal β - β' phase transformation in the CoCrFeNiNb _{0.25} high entropy alloy. 2018 , 146, 281-285	23
815	Preparing bulk ultrafine-microstructure high-entropy alloys via direct solidification. 2018 , 10, 1912-1919	33
814	Effects of Cobalt on the structure and mechanical behavior of non-equal molar Co _x Fe _{50-x} Cr ₂₅ Ni ₂₅ high entropy alloys. 2018 , 723, 221-228	23
813	Optimization of mechanical and tribological properties of FCC CrCoNi multi-principal element alloy with Mo addition. 2018 , 149, 324-330	33
812	Room-temperature ferromagnetic transitions and the temperature dependence of magnetic behaviors in FeCoNiCr-based high-entropy alloys. 2018 , 8, 056412	31
811	Effects of Ni-P amorphous films on mechanical and corrosion properties of Al _{0.3} CoCrFeNi high-entropy alloys. 2018 , 94, 65-72	18
810	Ultrastable metal oxide nanotube arrays achieved by entropy-stabilization engineering. 2018 , 146, 340-343	22
809	In-situ electrochemical-AFM study of localized corrosion of Al _x CoCrFeNi high-entropy alloys in chloride solution. 2018 , 439, 533-544	76
808	A hierarchical nanostructured Fe ₃₄ Cr ₃₄ Ni ₁₄ Al ₁₄ Co ₄ high-entropy alloy with good compressive mechanical properties. 2018 , 716, 235-239	33
807	Phase stability and transformation in a light-weight high-entropy alloy. 2018 , 146, 280-293	76
806	A novel Fe ₂₀ Co ₂₀ Ni ₄₁ Al ₁₉ eutectic high entropy alloy with excellent tensile properties. 2018 , 216, 144-146	90
805	Mechanical behavior and solid solution strengthening model for face-centered cubic single crystalline and polycrystalline high-entropy alloys. 2018 , 98, 89-94	35
804	Superconductivity in REO _{0.5} F _{0.5} BiS ₂ with high-entropy-alloy-type blocking layers. 2018 , 11, 053102	36
803	Mechanical response and deformation behavior of Al _{0.6} CoCrFeNi high-entropy alloys upon dynamic loading. 2018 , 727, 208-213	48
802	Processing of a new high entropy alloy: AlCrFeMoNiTi. 2018 , 61, 258-265	3
801	Phase stability of a ductile single-phase BCC Hf _{0.5} Nb _{0.5} Ta _{0.5} Ti _{1.5} Zr refractory high-entropy alloy. 2018 , 98, 79-88	38
800	A five-component entropy-stabilized fluorite oxide. 2018 , 38, 4161-4164	158

799	Multi-component AlCrTaTiZrMo-nitride film with high diffusion resistance in copper metallization. 2018 , 748, 258-264	21
798	Structure and mechanical properties of FeAlCrV and FeAlCrMo medium-entropy alloys. 2018 , 727, 184-191	7
797	Machine learning for phase selection in multi-principal element alloys. 2018 , 150, 230-235	94
796	Fabrication and characterization of WC-AlCoCrCuFeNi high-entropy alloy composites by spark plasma sintering. 2018 , 754, 163-170	34
795	The influence of nanocrystalline CoNiFeAl _{0.4} Ti _{0.6} Cr _{0.5} high-entropy alloy particles addition on microstructure and mechanical properties of SiCp/7075Al composites. 2018 , 726, 126-136	37
794	Temperature dependent deformation mechanisms of Al _{0.3} CoCrFeNi high-entropy alloy, starting from serrated flow behavior. 2018 , 757, 39-43	19
793	Effect of annealing conditions and temperatures on phase formation and magnetic behaviour of CrFeMnNiTi high entropy alloy. 2018 , 465, 169-175	14
792	A new mechanism for improving electromagnetic properties based on tunable crystallographic structures of FeCoNiSi Al high entropy alloy powders.. 2018 , 8, 14936-14946	23
791	Microstructures and Mechanical Properties of AlCrFeNiMo 0.5 Ti x High Entropy Alloys. 2018 , 35, 036102	0
790	Computational materials design of a corrosion resistant high entropy alloy for harsh environments. 2018 , 153, 19-22	68
789	Serration behavior and microstructure of high entropy alloy CoCrFeMnNi prepared by powder metallurgy. 2018 , 726, 37-44	19
788	Effect of cobalt on microstructure and properties of AlCr _{1.5} CuFeNi ₂ Co _x high-entropy alloys. 2018 , 5, 046514	7
787	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. 2018 , 359, 1489-1494	560
786	Mashing up metals with carbothermal shock. 2018 , 359, 1467	7
785	Role of brittle sigma phase in cryogenic-temperature-strength improvement of non-equi-atomic Fe-rich VCrMnFeCoNi high entropy alloys. 2018 , 724, 403-410	33
784	Synthesis and characterization of multicomponent (CrNbTaTiW)C films for increased hardness and corrosion resistance. 2018 , 149, 51-62	60
783	Strain-path controlled microstructure, texture and hardness evolution in cryo-deformed AlCoCrFeNi _{2.1} eutectic high entropy alloy. 2018 , 97, 12-21	20
782	Phase stability and temperature-dependent compressive strength of a low-density Fe _{32.3} Al _{29.3} Cu _{11.7} Ni _{10.8} Ti _{15.9} alloy. 2018 , 150, 54-56	1

781	Microstructure and microhardness of as-cast and 800 °C annealed Al _x Cr _{0.2} Fe _{0.2} Ni _{0.6-x} and Al _{0.2} Cr _{0.2} Fe _y Ni _{0.6-y} alloys. 2018 , 152, 214-221	21
780	Formation of chromium-iron carbide by carbon diffusion in Al _x CoCrFeNiCu high-entropy alloys. 2018 , 6, 321-326	9
779	Design of high-strength refractory complex solid-solution alloys. 2018 , 4,	39
778	Microband induced plasticity and the temperature dependence of the mechanical properties of a carbon-doped FeNiMnAlCr high entropy alloy. 2018 , 139, 373-381	25
777	On the controllability of phase formation in rapid solidification of high entropy alloys. 2018 , 748, 679-686	17
776	High-entropy ceramic thin films; A case study on transition metal diborides. 2018 , 149, 93-97	95
775	Effect of cold working and annealing on microstructure and properties of powder metallurgy high entropy alloy. 2018 , 61, 197-203	4
774	Doping of magnetite nanoparticles facilitates clean harvesting of diatom oil as biofuel for sustainable energy. 2018 , 5, 045503	9
773	Deformation mechanism during high-temperature tensile test in an eutectic high-entropy alloy AlCoCrFeNi _{2.1} . 2018 , 724, 148-155	45
772	Effects of processing route on phase evolution and mechanical properties of CoCrCuFeNiSix high entropy alloys. 2018 , 748, 889-897	28
771	Phase stability and mechanical properties of AlHfNbTiZr high-entropy alloys. 2018 , 724, 249-259	36
770	The Role of Carbon in Grain Refinement of Cast CrFeCoNi High-Entropy Alloys. 2018 , 49, 2151-2160	33
769	Hydrogen embrittlement of an interstitial equimolar high-entropy alloy. 2018 , 136, 403-408	66
768	Laser beam welding of a CoCrFeNiMn-type high entropy alloy produced by self-propagating high-temperature synthesis. 2018 , 96, 63-71	59
767	Distinct spin glass behavior and excellent magnetocaloric effect in Er ₂₀ Dy ₂₀ Co ₂₀ Al ₂₀ RE ₂₀ (RE = Gd, Tb and Tm) high-entropy bulk metallic glasses. 2018 , 96, 90-93	31
766	High-temperature high-entropy alloys Al _x Co ₁₅ Cr ₁₅ Ni _{70-x} based on the Al-Ni binary system. 2018 , 724, 283-288	32
765	Microstructure and mechanical properties of a novel refractory AlNbTiZr high-entropy alloy. 2018 , 34, 1309-1315	14
764	Fracture mechanisms of a Mo alloyed CoCrFeNi high entropy alloy: In-situ SEM investigation. 2018 , 723, 79-88	29

763	Influence of deformation and annealing twinning on the microstructure and texture evolution of face-centered cubic high-entropy alloys. 2018 , 150, 88-103	82
762	Studies on the microstructure and properties of Al _x CoCrFeNiTi _{1-x} high entropy alloys. 2018 , 741, 826-833	45
761	Formation and properties of Fe ₂₅ Co ₂₅ Ni ₂₅ (P, C, B, Si) ₂₅ high-entropy bulk metallic glasses. 2018 , 487, 60-64	21
760	Thermo-mechanical response of single-phase face-centered-cubic Al _x CoCrFeNi high-entropy alloy microcrystals. 2018 , 6, 300-306	11
759	Influence of compositional complexity on interdiffusion in Ni-containing concentrated solid-solution alloys. 2018 , 6, 293-299	36
758	Size dependent plasticity and damage response in multiphase body centered cubic high entropy alloys. 2018 , 150, 104-116	50
757	Microstructure and properties of Fe ₅ Cr ₅ SiTiCoNbMoW coating by laser cladding. 2018 , 34, 283-288	16
756	Influence of compositional inhomogeneity on mechanical behavior of an interstitial dual-phase high-entropy alloy. 2018 , 210, 29-36	52
755	Amorphous phase stability of NbTiAlSiN X high-entropy films. 2018 , 37, 682-689	23
754	Effect of low temperature on tensile properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy. 2018 , 210, 207-212	56
753	Abnormal temperature dependence of impact toughness in Al CoCrFeNi system high entropy alloys. 2018 , 210, 213-221	31
752	Microstructure and wear resistance of an intermetallic-based Al _{0.25} Ti _{0.75} CoCrFeNi high entropy alloy. 2018 , 210, 197-206	34
751	Elastic stability and lattice distortion of refractory high entropy alloys. 2018 , 210, 309-314	27
750	Effects of homogenization temperature on cracking during cold-rolling of Al _{0.5} CoCrFeMnNi high-entropy alloy. 2018 , 210, 187-191	12
749	Analysis of diffusion in high entropy alloys. 2018 , 210, 301-308	19
748	Microstructure and mechanical properties of non-equilibrium solidified CoCrFeNi high entropy alloy. 2018 , 210, 192-196	40
747	Effects of Ta addition on the microstructures and mechanical properties of CoCrFeNi high entropy alloy. 2018 , 210, 43-48	82
746	The oxidation behavior of the quinary FeCoNiCrSix high-entropy alloys. 2018 , 210, 362-369	28

745	Gravity influence on solidification and segregation of CoCrFeNiCu/Y high entropy alloy. 2018 , 210, 315-319	4
744	Exploring the design of eutectic or near-eutectic multicomponent alloys: From binary to high entropy alloys. 2018 , 61, 159-167	25
743	High temperature oxide-fibre/metal-matrix composites. 2018 , 210, 353-361	11
742	High entropy alloys obtained by field assisted powder metallurgy route: SPS and microwave heating. 2018 , 210, 78-86	35
741	Effects of reducing Co content on microstructure and mechanical properties of Co _x CrFeNiTi _{0.3} high-entropy alloys. 2018 , 210, 170-175	11
740	Reciprocating sliding wear behavior of high entropy alloys in dry and marine environments. 2018 , 210, 162-169	59
739	Hot deformation behavior of CoCrFeMnNi FCC high entropy alloy. 2018 , 210, 176-186	73
738	Database development and Calphad calculations for high entropy alloys: Challenges, strategies, and tips. 2018 , 210, 279-290	79
737	Microstructures and properties of Al _{0.3} CoCrFeNiMn _x high-entropy alloys. 2018 , 210, 146-151	25
736	A light-weight high-entropy alloy Al ₂₀ Be ₂₀ Fe ₁₀ Si ₁₅ Ti ₃₅ . 2018 , 61, 184-188	53
735	Solid state amorphization of metastable Al _{0.5} TiZrPdCuNi high entropy alloy investigated by high voltage electron microscopy. 2018 , 210, 291-300	17
734	High temperature deformation in fine grained high entropy alloys. 2018 , 210, 152-161	21
733	Precipitation hardening in CoCrFeNi-based high entropy alloys. 2018 , 210, 2-11	95
732	Effect of lattice distortion on solid solution strengthening of BCC high-entropy alloys. 2018 , 34, 349-354	87
731	Laser surface alloying on aluminum and its alloys: A review. 2018 , 100, 23-37	84
730	A promising new class of plasticine: Metallic plasticine. 2018 , 34, 344-348	7
729	Phase evolution and thermal stability of AlCoCrFe high entropy alloy with carbon as unsolicited addition from milling media. 2018 , 210, 57-61	34
728	Composition design of high entropy alloys using the valence electron concentration to balance strength and ductility. 2018 , 144, 129-137	156

727	Partially-devitrified icosahedral quasicrystalline phase in Ti _{33.33} Zr _{33.33} Hf _{13.33} Ni ₂₀ and Zr ₃₀ Hf ₃₀ Ni ₁₅ Cu ₁₀ Ti ₁₅ amorphous alloys with near equi-atomic compositions. 2018 , 210, 245-250	3
726	Equilibrium high entropy alloy phase stability from experiments and thermodynamic modeling. 2018 , 146, 5-8	52
725	Formation, thermal stability and mechanical properties of high entropy (Fe,Co,Ni,Cr,Mo)-B amorphous alloys. 2018 , 732, 637-645	30
724	Effect of alloying on the thermal-elastic properties of 3d high-entropy alloys. 2018 , 210, 320-326	27
723	Effect of Co content on phase formation and mechanical properties of (AlCoCrFeNi) ₁₀₀ -Co high-entropy alloys. 2018 , 710, 200-205	68
722	Strengthening mechanism of aluminum on elastic properties of NbVTiZr high-entropy alloys. 2018 , 92, 7-14	35
721	High-temperature tensile deformation behavior of hot rolled CrMnFeCoNi high-entropy alloy. 2018 , 730, 242-248	44
720	Aging behavior of the HfNbTaTiZr high entropy alloy. 2018 , 211, 87-90	92
719	Fcc nanostructured TiFeCoNi alloy with multi-scale grains and enhanced plasticity. 2018 , 143, 108-112	40
718	Exceptionally high cavitation erosion and corrosion resistance of a high entropy alloy. 2018 , 41, 252-260	97
717	Chemical short-range orders and the induced structural transition in high-entropy alloys. 2018 , 144, 64-68	78
716	Effects of temperature on the irradiation responses of Al _{0.1} CoCrFeNi high entropy alloy. 2018 , 144, 31-35	71
715	Effect of carbon addition on the microstructure and mechanical properties of CoCrFeNi high entropy alloy. 2018 , 61, 117-123	47
714	Realizing strength-ductility combination of coarse-grained Al _{0.2} Co _{1.5} CrFeNi _{1.5} Ti _{0.3} alloy via nano-sized, coherent precipitates. 2018 , 100, 177-191	110
713	On the microstructure and mechanical properties of the AlCoCrCuNi high entropy alloy processed in the semi-solid state. 2018 , 709, 139-151	13
712	Stacking fault energy of face-centered-cubic high entropy alloys. 2018 , 93, 269-273	174
711	High-Entropy Alloys: Potential Candidates for High-Temperature Applications [An Overview. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700645	3-5 148
710	Studies of sluggish diffusion effect in Co-Cr-Fe-Mn-Ni, Co-Cr-Fe-Ni and Co-Fe-Mn-Ni high entropy alloys; determination of tracer diffusivities by combinatorial approach. 2018 , 731, 920-928	69

709	Computation of entropies and phase equilibria in refractory V-Nb-Mo-Ta-W high-entropy alloys. 2018 , 143, 88-101	39
708	First-principles study of the third-order elastic constants and related anharmonic properties in refractory high-entropy alloys. 2018 , 142, 29-36	17
707	Temperature effects on the serrated behavior of an Al _{0.5} CoCrCuFeNi high-entropy alloy. 2018 , 210, 20-28	45
706	Microstructure characterization of CoCrFeNiMnPd eutectic high-entropy alloys. 2018 , 731, 600-611	30
705	Structure and high-temperature property of amorphous composite coating synthesized by laser cladding FeCrCoNiSiB high-entropy alloy powder. 2018 , 731, 662-666	75
704	Phase equilibria in equiatomic CoCuFeMnNi high entropy alloy. 2018 , 210, 269-278	34
703	Mechanical performance of FeCrCoMnAl high-entropy alloys from first-principle. 2018 , 210, 37-42	10
702	Thermodynamic instability of a nanocrystalline, single-phase TiZrNbHfTa alloy and its impact on the mechanical properties. 2018 , 142, 201-212	130
701	The formation of cellular precipitate and its effect on the tensile properties of a precipitation strengthened high entropy alloy. 2018 , 210, 111-119	37
700	Unexpected cyclic stress-strain response of dual-phase high-entropy alloys induced by partial reversibility of deformation. 2018 , 143, 63-67	46
699	Ni-Cr-Mn-Y-Nb resistive thin film prepared by co-sputtering. 2018 , 210, 327-335	5
698	Microstructural stability and mechanical properties of equiatomic CoCrCuFeNi, CrCuFeMnNi, CoCrCuFeMn alloys. 2018 , 210, 120-125	24
697	Microstructures and mechanical properties of mechanically alloyed and spark plasma sintered Al _{0.3} CoCrFeMnNi high entropy alloy. 2018 , 210, 62-70	47
696	Effect of cellular structure on the mechanical property of Al _{0.2} Co _{1.5} CrFeNi _{1.5} Ti _{0.3} high-entropy alloy. 2018 , 210, 103-110	17
695	High entropy alloy binders in gradient sintered hardmetal. 2018 , 71, 217-220	23
694	Microstructures and thermodynamic properties of high-entropy alloys CoCrCuFeNi. 2018 , 93, 40-46	29
693	Local mechanical properties of Al CoCrCuFeNi high entropy alloy characterized using nanoindentation. 2018 , 93, 85-88	33
692	Effect of post weld heat treatment on weldability of high entropy alloy welds. 2018 , 23, 420-427	38

691	Magnetism of CoCrFeNiZrx eutectic high-entropy alloys. 2018 , 93, 122-133		30
690	Transition of twinning behavior in CoCrFeMnNi high entropy alloy with grain refinement. 2018 , 712, 603-607		135
689	Medium entropy alloy CoCrNi coatings: Enhancing hardness and damage-tolerance through a nanotwinned structuring. 2018 , 335, 257-264		30
688	Additive Manufacturing of Advanced Multi-Component Alloys: Bulk Metallic Glasses and High Entropy Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700874	3-5	55
687	Composition Dependence on the Evolution of Nanoeutectic in CoCrFeNiNbx (0.45 ≤ x ≤ 0.65) High Entropy Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700908	3-5	28
686	Microstructure and mechanical properties of Al _{0.7} CoCrFeNi high-entropy-alloy prepared by directional solidification. 2018 , 93, 93-100		42
685	Development of novel CoCu _{0.5} FeNiVTix (x = 0, 0.5, 1, 1.5, 2) high-entropy alloys. 2018 , 34, 952-960		6
684	Lamellar-structured low-cost FeMn _{0.7} Ni _{0.6} Cr _{0.4} Al _{0.3} high entropy alloy with excellent tensile properties. 2023 , 209, 111767		0
683	Computational and experimental investigation of the strain rate sensitivity of small punch testing of the high-entropy alloy CoCrFeMnNi. 2023 , 936, 168219		0
682	Microstructure, mechanical properties and lead-bismuth eutectic corrosion behavior of (AlCrFeTiMo)NO and (AlCrFeTiNb)NO high entropy metal sublattice ceramic coatings. 2023 , 209, 111774		0
681	Microstructure and mechanical property of Al ₅₆ -Co ₂₄ Cr ₂₀ Ni eutectic high-entropy alloys with an ordered FCC/BCT phase structure. 2023 , 936, 168194		0
680	Study on magnetic properties and microstructure of Fe _{0.18} Co _{0.36} Ni _{0.21} Al _{0.10} Cr _{0.15} high entropy alloy thin films. 2023 , 938, 168533		1
679	Sliding wear behavior of high entropy alloy coatings deposited through cold spraying and flame spraying: A comparative assessment. 2023 , 516-517, 204596		2
678	Possible local order in the high entropy TrZr ₂ superconductors. 2023 , 174, 111154		0
677	Microstructure and oxidation behavior of the Y/Ta/Hf co-doped AlCoCrFeNi high-entropy alloys in air at 1100°C. 2023 , 212, 110930		0
676	Twin boundary spacing and loading direction dependent tensile deformation of nano-twinned Al ₁₀ (CrCoFeNi) ₉₀ high-entropy alloy: An atomic study. 2023 , 242, 108026		0
675	Laser powder bed fusion of a non-equiatomic FeNiCoAl-based high-entropy alloy: Printability, microstructure, and mechanical properties. 2023 , 938, 168562		0
674	Hetero-deformation promoted strengthening and toughening in BCC rich eutectic and near eutectic high entropy alloys. 2023 , 146, 1-9		0

- 673 Characteristics of (Mo-Ta-W)-C and (Nb-Ta-W)-C refractory multi-principal element carbide thin films by non-reactive direct current magnetron co-sputtering. **2023**, 936, 168260 ○
- 672 A precipitation-strengthened high-entropy alloy prepared by selective laser melting in-situ alloying and post-heat treatment. **2023**, 936, 168145 ○
- 671 Enhanced mechanical properties of a carbon and nitrogen co-doped interstitial high-entropy alloy via tuning ultrafine-grained microstructures. **2023**, 144, 128-137 ○
- 670 Investigating the nanomechanical and thermal characteristics of Ti₂₀-Al₂₀-V₂₀-Fe₂₀-Ni₂₀ HEA developed via SPS for high energy applications. **2022**, 119, 616 ○
- 669 Summary and Future Direction. **2022**, 289-307 ○
- 668 High Entropy Materials (HEMs): An Overview. **2022**, 1-25 ○
- 667 Influence of Various Factors on the Properties of Solid-Soluble High-Entropy Alloys Based on BCC and FCC Phases. **2022**, 58, 135-140 ○
- 666 Structural Transformations upon Annealing of a Cold-Worked High-Entropy Al_{0.3}CoCrFeNi Alloy. **2022**, 52, 724-730 ○
- 665 Research Progress of Refractory High Entropy Alloys: A Review. **2022**, 35, ○
- 664 Phase Transformation Induced by High Pressure Torsion in the High-Entropy Alloy CrMnFeCoNi. **2022**, 15, 8407 ○
- 663 Microstructure and mechanical properties of as-cast (CuNi)_{100-x}Cox medium-entropy alloys. **2022**, 19, 511-518 ○
- 662 Effect of activating additives on the cold sintering process of (MnFeCoNiCu)₃O₄ high-entropy ceramics. **2022**, 17, 439-449 ○
- 661 Subsonic-Flame-Sprayed CoCrFeNi, AlCoCrFeNi and MnCoCrFeNi-Based High-Entropy Alloy Coatings and Their Tribological Behaviors. ○
- 660 Development of Cost-Effective Microstructure and Isothermal Oxidation-Resistant Bond Coats on Inconel 718 by Atmospheric Plasma-Sprayed NiCoCrAlFe High-Entropy Alloy. **2023**, 75, 239-247 ○
- 659 Hardness Predicting of Additively Manufactured High-Entropy Alloys Based on Fabrication Parameter-Dependent Machine Learning. 2201369 ○
- 658 Structure and Properties of Al-Co-Cr-Fe-Ni High-Entropy Alloy Subjected to Electron Bomb Plasma Treatment. **2022**, 12, 1987 ○
- 657 Effect of TiO₂ nano-ceramic particles on microstructure and mechanical properties of Al_{0.4}CoCrFe₂Ni₂ high-entropy alloy. **2022**, 19, 528-534 ○
- 656 Microstructure characteristics and mechanical properties of NbMoTiVWSix refractory high-entropy alloys. **2022**, 19, 495-502 ○

655	Microstructure, Mechanical Properties, and Damping Capacity of Al _x CoCrFeNi High-Entropy Alloys Prepared by Spark Plasma Sintering. 2022 , 12, 2058	0
654	High-Throughput Preparation and Characterization of ZrMoTaW Refractory Multi-Principal Element Alloy Film. 2022 , 15, 8546	0
653	Ballistic impact response of Fe ₄₀ Mn ₂₀ Cr ₂₀ Ni ₂₀ high-entropy alloys. 2022 , 132, 205105	0
652	Carbon Nanotubes (CNTs) Reinforced CoCrMoNbTi _{0.4} Refractory High Entropy Alloy Fabricated via Laser Additive Manufacturing: Processing Optimization, Microstructure Transformation and Mechanical Properties. 2022 , 12, 1678	0
651	Effect of Mo on microstructure, mechanical and corrosion properties of FeCrNiMnMox high-entropy alloys. 2022 , 19, 464-472	0
650	Nanoporous AlMnYNiCoAu Catalysts for Hydrogen Evolution. 2022 , 5, 17673-17681	0
649	Superconductivity in the high-entropy alloy (NbTa) _{0.67} (MoHfW) _{0.33} . 2022 , 106,	0
648	Mechanical, Corrosion, and Wear Properties of TiZrTaNbSn Biomedical High-Entropy Alloys. 2022 , 12, 1795	0
647	High-Entropy Layered Rare Earth Hydroxides. 2022 , 61, 19817-19827	2
646	Laser-cladding of high entropy alloy coatings: an overview. 1-14	1
645	Residual Stresses in a High- and a Medium-Entropy Alloy due to TIG and Friction Stir Welding. 2022 , 6, 147	0
644	Powder Welding Wire of Cantor's High-Entropy Alloying System for Surfacing. 2022 , 44, 1025-1035	0
643	Optimization of Sputtering Process for Medium Entropy Alloy Nanotwinned CoCrFeNi Thin Films by Taguchi Method. 2022 , 15, 8238	0
642	Low-density NiAlFeCrMoV eutectic high-entropy alloys with excellent mechanical and wear properties. 2022 , 21, 4908-4920	0
641	Metallic Materials for Hydrogen Storage: A Brief Overview. 2022 , 12, 1813	0
640	Strengthening CoCrFeNi high-entropy alloy by Laves and boride phases. 2022 , 19, 457-463	0
639	Short-range order and phase stability of CrCoNi explored with machine learning potentials. 2022 , 6,	0
638	Fabrication and Characterization of Oxygen-Carbon-Contained CrMnFeCoNi Coatings Electrodeposited in DMF-CH ₃ CN Solution with and without Supporting Electrolyte LiClO ₄ . 2022 , 12, 1804	1

- 637 Effect of loading orientation on plasticity in nano-laminated CoNiCrFeMn dual-phase high-entropy alloy: a molecular dynamics study. **2023**, 31, 015005 ○
- 636 Synthesis of high entropy carbide powders by low temperature processing. ○
- 635 Organizational Evolution during Performance Meritocracy of AlSi0.5CrxCo0.2Ni Lightweight High Entropy Alloys. **2022**, 12, 1828 ○
- 634 Facile Preparation, Microstructure and Dielectric Properties of La(Cr0.2Mn0.2Fe0.2Co0.2Ni0.2)O3 Perovskite High-Entropy Ceramics. **2022**, 12, 1756 ○
- 633 Achieving high energy storage properties in perovskite oxide via high-entropy design. **2022**, 12, 1756 1
- 632 Ceramic-reinforced HEA matrix composites exhibiting an excellent combination of mechanical properties. **2022**, 12, 1756 1
- 631 On the WEDM of WNbMoTaZrx (x = 0.5, 1) Refractory High Entropy Alloys. **2022**, 24, 1796 ○
- 630 Microstructure and mechanical properties of friction stir lap welds between FeCoCrNiMn high entropy alloy and 6061 Al alloy. **2022**, 224, 111411 1
- 629 Modern approaches in the creation of high-entropy and medium-entropy cast aluminum alloys. **2022**, 30, 102-107 ○
- 628 An exceptionally wear-resistant CoFeNi2 medium entropy alloy via tribo-induced nanocrystallites with amorphous boundaries. **2022**, 156102 ○
- 627 Dual precipitates and heterogeneous fine-grain structure induced strength-ductility synergy in a CoCrNi-based medium-entropy alloy. **2022**, 144504 ○
- 626 Effect of Ti/Nb/Ta addition on high-temperature microstructural stability of coherent γ in NiAl(Cr,Mo,W) superalloys. ○
- 625 Effects of Nb Addition on Charpy Impact Properties of TiVTa Refractory High-Entropy Alloy. ○
- 624 Selective Laser Melting (SLM) Additively Manufactured CoCrFeNiMn High-Entropy Alloy: Process Optimization, Microscale Mechanical Mechanism, and High-Cycle Fatigue Behavior. **2022**, 15, 8560 ○
- 623 Fabrication of High-Entropy Alloy CrMnFeCoNi with Bimodal Structure and Its Fatigue Crack Propagation Properties. **2022**, 71, 961-968 ○
- 622 High entropy materials based electrocatalysts for water splitting: Synthesis strategies, catalytic mechanisms, and prospects. ○
- 621 Exceptional fracture toughness of CrCoNi-based medium- and high-entropy alloys at 20 kelvin. **2022**, 378, 978-983 4
- 620 Mössbauer and Magnetic Studies of Ultrafine Powders of the FeNiCrCoCu System Produced by Electric Spark Method in Different Liquid Media. **2022**, 44, 1195-1211 ○

619	High-temperature wear behaviour of ZrC/NbC-reinforced CrMnFeCoNi coatings. 1-8	0
618	Oxidation Behavior of (AlCoCrFeNi) ₉₂ (TiC) ₈ High-Entropy Alloy at Elevated Temperatures.	0
617	Effect of electron-beam treatment on the structure and properties of (B+Cr) film deposited on a high-entropy alloy AlCrFeCoNi. 2022 , 133704	0
616	A metastable lightweight high entropy alloy with the transformation induced plasticity. 2022 , 2383, 012139	0
615	Structural Features, Mechanical Properties, and Strengthening Behavior of SiC-Doped FeNiCoCr High-Entropy Alloys.	0
614	Hydrogen storage in liquid hydrogen carriers: recent activities and new trends.	0
613	Atomistic study on the nano-scratch mechanism of CoCrFeMnNi high-entropy alloy at different morphology densities.	0
612	Development of a semi-empirical interatomic potential appropriate for the radiation defects in V-Ti-Ta-Nb high-entropy alloy. 2023 , 35, 055701	0
611	In-situ neutron diffraction investigating microstructure and texture evolution upon heating of nano-structured CoCrFeNi high-entropy alloy.	1
610	Influence of the Copper Content on Phase Composition and Magnetic Properties of Ultra-Fine Powders of AlCoCrCu _x FeNi ($x = 0, 1, 2$) High-Entropy Alloys Produced by Ultrasonic Ball Milling. 2022 , 44, 1213-1227	0
609	Tailoring the tribo-corrosion response of (CrNbTiAlV) _x Ny coatings by controlling carbon content. 2022 , 108179	0
608	Experimental research on mechanical performance of the lightweight composite slabs Research Progress on the Lightweight High-Entropy Alloys. 2022 , 2393, 012041	0
607	Microwave Absorbing Materials for Stealth Application: A Holistic Overview.	0
606	Synergetic enhancements on the mechanical and tribological performance of Al ₁₀ Cr ₁₇ Fe ₂₀ NiV ₄ medium entropy alloys induced by nano-Al ₂ O ₃ particles.	0
605	Enhancement of Strength and Plasticity by Nanoprecipitation Strengthening and Stacking Fault Deformation in a High Entropy Alloy.	0
604	Effect of Al Addition on Microstructure and Properties of CoCrNi Medium-Entropy Alloy Prepared by Powder Metallurgy. 2022 , 15, 9090	1
603	Impact of severe plastic deformation on kinetics and thermodynamics of hydrogen storage in magnesium and its alloys. 2022 ,	1
602	Microstructure and mechanical properties of Cf/SiC composite joints joined using AlCoCrFeNi _{2.1} eutectic high-entropy alloy filler via spark plasma sintering. 2022 ,	0

- 601 Facile Solvothermal Synthesis of PtPdRhRuCuNiCo High-Entropy Alloy Nanoparticles. ○
- 600 Magnetic properties of fcc and β phases in equiatomic and off-equiatomic high-entropy Cantor alloys. **2022**, 106, ○
- 599 Machine Learning-Based Characterization of the Nanostructure in a Combinatorial Co-Cr-Fe-Ni Compositionally Complex Alloy Film. **2022**, 12, 4407 1
- 598 Dynamic Compression Mechanical Properties of TiZrHfX 0.3 High-Entropy Alloys. ○
- 597 Effect of Ti as co-sputtering target on microstructure and mechanical properties of FeCoNi(CuAl)0.2 high-entropy alloy thin films. **2022**, 127214 ○
- 596 Phonon behavior in a random solid solution: a lattice dynamics study on the high-entropy alloy FeCoCrMnNi. **2022**, 13, ○
- 595 Influence of chemistry and structure on interfacial segregation in NbMoTaW with high-throughput atomistic simulations. **2022**, 132, 235301 ○
- 594 Chemical order transitions within extended interfacial segregation zones in NbMoTaW. **2022**, 132, 235302 ○
- 593 Study of Crack-Propagatation Mechanism of Al0.1CoCrFeNi High-Entropy Alloy by Molecular Dynamics Method. **2023**, 13, 11 2
- 592 Magnetic behaviors and magnetocaloric effects in rare earth high-entropy amorphous/nanocrystalline alloys. **2022**, ○
- 591 Microstructure and Performance of Fe50Mn30Cr10Ni10 High-Entropy Alloy Produced by High-Efficiency and Low-Cost Wire Arc Additive Manufacturing. **2022**, 10, 344 ○
- 590 Effect of Ti Addition on the Microstructure and Corrosion Resistance of AlCrCuFeNiNb0.2 High-Entropy Alloy. ○
- 589 Effect of Multi-Pass Friction Stir Processing on Microstructure and Mechanical Properties of a Metastable Dual-Phase High Entropy Alloy. **2023**, 11, 2 ○
- 588 Effect of serrated grain boundary on tensile and creep properties of a precipitation strengthened high entropy alloy. ○
- 587 Spark Plasma Sintering (SPS) of Multi-Principal Element Alloys of Copper-Niobium-Titanium-Di-Boride-Graphite, Investigation of Microstructures, and Properties. **2022**, 12, 1754 ○
- 586 High-Entropy Materials in SOFC Technology: Theoretical Foundations for Their Creation, Features of Synthesis, and Recent Achievements. **2022**, 15, 8783 ○
- 585 Coating of a Multicomponent System AlCrNiCoFe on a Steel Substrate Obtained by Laser. **2022**, 13, 1569-1574 ○
- 584 Mo content-dependended competition between Cr2O3 enrichment and selective dissolution of CoCrFeNiMox high entropy alloys. **2022**, 6, ○

583	Application of HTS in Material Preparation and New Devices. 2023 , 145-192	0
582	A Lightweight AlTiVNb High-Entropy Alloy Film with High Strength-Ductility Synergy and Corrosion Resistance. 2022 , 15, 8568	2
581	High-Entropy Materials: Controllable Synthesis, Deep Characterization, Electrochemical Energy Application, and Outlook.	0
580	Deformation behavior, microstructure evolution, phase transformation and plastic instability origin of powder metallurgy Al _{0.8} Co _{0.5} Cr _{1.5} CuFeNi alloy during high temperature deformation. 2022 , 861, 144373	0
579	Recent progress in oxidation behavior of high-entropy alloys: A review. 2022 , 10, 120701	1
578	The Temperature Dependences of Mechanical Properties, Deformation Hardening, and Fracture of FeMnNiCoCr Heterophase Alloy.	0
577	Enhanced mechanical performance of gradient-structured CoCrFeMnNi high-entropy alloys induced by industrial shot-blasting.	0
576	Entropy-stabilized silicides: Expanding the B20 single-phase region from mono-silicide to high-entropy silicide. 2022 , 10, 121105	1
575	Comparison between heat treatment and SPS treatment on CoCrFeMnNi/WC coatings. 1-10	0
574	Phase dissolution strengthens and ductilizes a high-entropy alloy.	0
573	Microstructure and Mechanical Properties of WTaVCrTi Refractory High-Entropy Alloy by Vacuum Levitation Melting for Fusion Applications.	0
572	Nb and Mo Influencing the High-Temperature Wear Behavior of HVOF-Sprayed High-Entropy Alloy Coatings. 2023 , 13, 9	0
571	Rapid Design, Microstructures, and Properties of Low-Cost Co-Free Al-Cr-Fe-Ni Eutectic Medium Entropy Alloys. 2023 , 16, 56	0
570	Microstructure and Corrosive Wear Properties of CoCrFeNiMn High-Entropy Alloy Coatings. 2023 , 16, 55	1
569	Homogenization of diffusion in multicomponent liquids. 2022 , 157, 244503	0
568	Additively manufactured equiatomic CoCrFeMnNi high entropy alloy: precipitation-induced heterogeneity by mechano-chemical coupling. 2022 , 168514	0
567	Development of lightweight Al-based entropy alloys for elevated temperature applications. 2022 , 168619	0
566	On the rate of microstructural degradation of Al-Ta-Ti-Zr refractory metal high entropy superalloys. 2022 , 168369	0

- 565 Hierarchical Cu-Rich Nanoprecipitates in a CoFeTiVCu High-Entropy Alloy and Its Impressed Strength-Plasticity Balance. ○
- 564 Structure and Properties of Hard Nitride Coatings from a High-Entropy Alloy. **2022**, 16, 1061-1068 ○
- 563 Orientation Dependence of Shape Memory Effect and Superelasticity in (TiZrHf)₅₀Ni₂₅Co₁₀Cu₁₅ High-Entropy Alloy Single Crystals. ○
- 562 Effect of Al/Ni ratio on phase, microstructure and mechanical properties of the Al CrFeMnNi₂- high entropy alloys. **2023**, 168760 ○
- 561 Synthesis of (MgCoNiCuZn)O high-entropy oxide composites by microwave heating. **2023**, 34, ○
- 560 Hall-Petch Strengthening by Grain Boundaries and Annealing Twin Boundaries in Non-Equiatomic Ni₂FeCr Medium-Entropy Alloy. **2023**, 13, 134 ○
- 559 High-entropy atomic environment converts inactive to active site for electrocatalysis. 1
- 558 Microstructure and properties of Fe_xCrMnAlCu high-entropy alloy. 1-10 1
- 557 CO₂ adsorption on the (111) surface of fcc-structure high entropy alloys. **2023**, 3, ○
- 556 Doubled strength and ductility via maraging effect and dynamic precipitate transformation in ultrastrong medium-entropy alloy. **2023**, 14, ○
- 555 Designing strategies and enhancing mechanism for multicomponent high-entropy catalysts. ○
- 554 Machine learning-driven synthesis of TiZrNbHfTaC₅ high-entropy carbide. **2023**, 9, 1
- 553 Analysis of (Al,Cr,Nb,Ta,Ti)-nitride and -oxynitride diffusion barriers in Cu-Si interconnects by 3D-Secondary Ion Mass Spectrometry. **2023**, 112676 ○
- 552 Tungsten doping enhances the mechanical properties of FeCr₂V-based medium entropy alloy revealed by experiments and calculations. **2023**, 168861 ○
- 551 Microstructure and Mechanical Properties of High-Specific-Strength (TiVCrZr)_{100-x}W_x (x = 5, 10, 15 and 20) Refractory High-Entropy Alloys. **2023**, 25, 100 ○
- 550 Microstructural, Mechanical and Wear Properties of Atmospheric Plasma-Sprayed and High-Velocity Oxy-Fuel AlCoCrFeNi Equiatomic High-Entropy Alloys (HEAs) Coatings. ○
- 549 Special Issue: Advanced Multielement Coatings, Deposition, Materials, Applications. **2023**, 13, 131 ○
- 548 A novel two-step field-assisted sintering method to prepare (MgCoNiCuZn)O high entropy oxide. **2023**, 22, 3108-3114 ○

- 547 A cost-effective cryogenic high-entropy alloy with high strength-ductility synergy and strain hardenability. **2023**, 144607 ○
- 546 Thermal stability and corrosion behavior of a novel Zr_{22.5}Ti_{22.5}Hf_{22.5}Ni_{22.5}Ta₁₀ high-entropy amorphous alloy. **2023**, 110979 1
- 545 High-Entropy Enhanced Microwave Attenuation in Titanate Perovskites. 2210243 1
- 544 Improved Wear and Corrosion Resistance in TiC-Reinforced SUS304 Stainless Steel. **2023**, 7, 34 1
- 543 Effects of Al and La elements on mechanical properties of CoNiFe_{0.6}Cr_{0.6} high-entropy alloys: a first-principles study. **2023**, ○
- 542 A great enhancement of both strength and plasticity in a dual-phase high-entropy alloy by multi-effects of high carbon addition. **2023**, 225, 111571 ○
- 541 Rapid amorphization of CrMnFeCoNi high-entropy alloy under ultrasonic vibrations. **2023**, 225, 111575 1
- 540 A Multiscale Topographical Surface Analysis of High Entropy Alloys Coatings by Laser Melting. **2023**, 16, 629 ○
- 539 Sub-nanometric high entropy alloy cluster: hydrogen spillover-driven synthesis on CeO₂ and structural reversibility. ○
- 538 Microstructure, mechanical and tribological properties of high-entropy (TaTiVW)_{C4} ceramics. **2023**, 106114 ○
- 537 Rapid in situ alloying of CoCrFeMnNi high-entropy alloy from elemental feedstock toward high-throughput synthesis via laser powder bed fusion. **2023**, 18, ○
- 536 The fabrication and growth mechanism of AlCrFeCoNiCu_{0.5} HEA thin films by substrate-biased cathodic arc deposition. **2023**, 13, ○
- 535 Electrochemical behavior, passive film characterization and in vitro biocompatibility of TiZrNb medium-entropy alloys. **2023**, 58, 946-960 ○
- 534 Facile synthesis of metal carbides with high-entropy strategy for engineering electrical properties. **2023**, ○
- 533 Reactive HiTUS TiNbVTaZrHf-Nx Coatings: Structure, Composition and Mechanical Properties. **2023**, 16, 563 ○
- 532 A Study on Aluminum-Based Lightweight Entropic Alloys with High Strength at Elevated Temperature. **2023**, 413-423 ○
- 531 Atomistic tensile deformation mechanisms in a CrCoNi medium-entropy alloy with gradient nano-grained structure at cryogenic temperature. 9, ○
- 530 Nanocrystalline High Entropy Alloys and Oxides as Emerging Materials for Functional Applications. **2023**, 145-176 ○

- 529 Effects of structural transformation on magnetic properties of AlCoFeCr high-entropy soft magnetic powder cores by adjusting Co/Fe ratio. **2023**, 225, 111537 ○
- 528 Direct Observation of Oxygen Atoms Taking Tetrahedral Interstitial Sites in Medium-Entropy Body-Centered-Cubic Solutions. 2209941 ○
- 527 Toward the design of ultrahigh-entropy alloys via mining six million texts. **2023**, 14, 1
- 526 Study on annealing treatment of NbMoTaTiNi high-entropy alloy with ultra-high strength disordered-ordered transition structure for additive manufacturing. **2023**, 168810 ○
- 525 Superconductivity in medium- and high-entropy alloy thin films: Impact of thickness and external pressure. **2023**, 107, ○
- 524 Effect of Mo on the morphology, microstructure and mechanical properties of NbTa_{0.5}TiMo refractory high entropy alloy fabricated by laser powder bed fusion using elemental mixed powders. **2023**, 106107 ○
- 523 Structure and magnetism of electrospun porous high-entropy (Cr_{1/5}Mn_{1/5}Fe_{1/5}Co_{1/5}Ni_{1/5})₃O₄, (Cr_{1/5}Mn_{1/5}Fe_{1/5}Co_{1/5}Zn_{1/5})₃O₄ and (Cr_{1/5}Mn_{1/5}Fe_{1/5}Ni_{1/5}Zn_{1/5})₃O₄ spinel oxide nanofibers. **2023**, 25, 2212-2226 ○
- 522 In-situ Study of Room Temperature Tensile Deformation of a CrMnFeCoNi High-Entropy Alloy. **2023**, 168904 ○
- 521 Short review on high entropy alloys for high temperature structural applications. 1-10 ○
- 520 Powder metallurgical processing of Al matrix composite reinforced with AlSiCrMnFeNiCu high-entropy alloys: Microstructure, thermal stability, and microhardness. ○
- 519 Prediction of the Critical Temperature of Superconductors Based on Two-Layer Feature Selection and the Optuna-Stacking Ensemble Learning Model. ○
- 518 Novel high-entropy microwave dielectric ceramics Sr(La_{0.2}Nd_{0.2}Sm_{0.2}Eu_{0.2}Gd_{0.2})AlO₄ with excellent temperature stability and mechanical properties. **2023**, ○
- 517 Effects of co-alloying Al and Cu on the corrosion behavior and mechanical properties of nanocrystalline FeCrNiCo high entropy alloys. **2023**, 110983 ○
- 516 Electroplasticity in the Al_{0.6}CoCrFeNiMn high entropy alloy subjected to electrically-assisted uniaxial tension. **2023**, ○
- 515 Multi-Criteria Optimization of Automatic Electro-Spark Deposition TiCrNiVSi_{0.1} Multi-Principal Element Alloy Coating on TC4 Alloy. **2023**, 13, 214 ○
- 514 Predict the phase formation of high-entropy alloys by compositions. **2023**, 22, 3331-3339 ○
- 513 Enhanced Li-Ion Diffusion and Cycling Stability of Ni-Free High-Entropy Spinel Oxide Anodes with High-Concentration Oxygen Vacancies. **2023**, 15, 2792-2803 ○
- 512 The role of Al on microstructure and high-temperature oxidation behavior of Al_xMnCrCoFeNi (x = 0, 0.2, 0.4, 1) high-entropy alloys. ○

- 511 Ab Initio Simulation of Structure and Properties in Ni-Based Superalloys: Haynes282 and Inconel740. **2023**, 16, 887 ○
- 510 On the evolution of protective oxide chemistry and corrosion resistance of electrodeposited FeCrMnNiCo-carbon nanotube composite coatings. 1-24 ○
- 509 Aspects of Applied Chemistry Related to Future Goals of Safety and Efficiency in Materials Development for Nuclear Energy. **2023**, 28, 874 ○
- 508 Laser Annealing-Induced Phase Transformation Behaviors of High Entropy Metal Alloy, Oxide, and Nitride Nanoparticle Combinations. 2211279 ○
- 507 Revealing the governing factors for long-term radiation damage evolution in multi-principal elemental alloys through atomistically-informed cluster dynamics. **2023**, 225, 111573 ○
- 506 Influence of group IV element on basic mechanical properties of BCC medium-entropy alloys using machine-learning potentials. **2023**, 219, 112010 ○
- 505 Effect of cold working on the rate sensitivity in high entropy lamellar CoCrFeNi(Nb /Ta) eutectic composites. **2023**, 864, 144557 ○
- 504 Influence of oxygen on performance of multi-principal element alloy as braze filler for Ni-base alloys. **2023**, 87, 25-35 ○
- 503 Microstructural and dielectric properties of Ba_{0.45}Mg_{0.05}Sr_{0.5-x}Ca_xTiO₃ high entropy ceramics. **2023**, 296, 127290 ○
- 502 Thermal stability of MoNbTaTiW, MoNbTaVW and CrMoNbTaW thin films deposited by high power impulse magnetron sputtering. **2023**, 454, 129189 ○
- 501 Effect of Al on microstructure and mechanical properties of lightweight Al_xNb_{0.5}TiV₂Zr_{0.5} refractory high entropy alloys. **2023**, 865, 144628 ○
- 500 Effect of Mo addition on the microstructural evolution and mechanical properties of FeNiCrMnAlTi high entropy alloys. **2023**, 864, 144579 ○
- 499 Room temperature cyclic creep behaviour of equimolar CoCuFeMnNi high entropy alloy. **2023**, 865, 144587 ○
- 498 Influence of the scanning angle on the grain growth and mechanical properties of Ni₁₀Cr₆W₁Fe₉Ti₁ HEA fabricated using the LPBF/AM method. **2023**, 864, 144596 ○
- 497 Corrosion behavior of AlCoCrFeNi_x high entropy alloys. **2023**, 441, 141844 ○
- 496 M23C6 precipitation strengthened Fe_{0.6}MnNi_{1.4} medium entropy alloy matrix composites. **2023**, 865, 144319 ○
- 495 Effect of substrate bias on the microstructure and mechanical and tribological properties of ZrNbTiMo refractory high entropy alloy film. **2023**, 455, 129214 ○
- 494 Origin of hard magnetism in Fe-Co-Ni-Al-Ti-Cu high-entropy alloy: Chemical shape anisotropy. **2023**, 246, 118702 ○

- 493 Microstructures and mechanical properties of the precipitation strengthened Al_{0.4}Cr_{0.7}Fe_xNi₂V_{0.2} high entropy alloys. **2023**, 864, 144606 ○
- 492 Accelerating the design of high-entropy alloys with high hardness by machine learning based on particle swarm optimization. **2023**, 154, 107819 ○
- 491 Effects of Fe content on microstructure and properties of ferrous medium-entropy alloys prepared using powder metallurgy. **2023**, 34, 105344 ○
- 490 Effect of chromium variation on evolution of magnetic properties in laser direct energy additively processed CoCr_xFeNi alloys. **2023**, 226, 115269 ○
- 489 Unveiling the compressive behavior of Fe₂Ni₂CrAl high entropy alloy: A combined molecular dynamics and finite element study. **2023**, 34, 105296 ○
- 488 Effect of Re addition on the microstructure and mechanical properties of AlCoCrFeNi_{2.1} eutectic high-entropy alloy. **2023**, 154, 107808 ○
- 487 Investigation of the metastable spinodally decomposed magnetic CrFe-rich phase in Al doped CrFeCoNi alloy. **2023**, 939, 168794 ○
- 486 Improved mechanical properties of Co-free high-entropy Cantor alloy: A first-principles study. **2023**, 17, 100364 ○
- 485 Hydrogen segregation by local chemical ordering structure in CrCoNi medium-entropy alloys: A first principle study. **2023**, 34, 105306 ○
- 484 Twinning mediated plasticity in high entropy CoCr_{1.3}FeNi_{0.7}MnNb ($x = 0.3, 0.367, 0.4$) ultrafine lamellar eutectic by tuning stacking fault energy. **2023**, 227, 115271 ○
- 483 Microstructure and properties of AlCoCrNiFe high-entropy alloy sintered by hot oscillating pressing. **2023**, 154, 107802 ○
- 482 The phase stability at intermediate-temperature and mechanical behavior of the dual-phase AlCoCr_{0.5}Fe_xNi_{2.5} high entropy alloys. **2023**, 297, 127314 ○
- 481 Effect of Fe content on microstructures and mechanical properties of eutectic Co-Cr-Fe-Ni-Hf multi-principal element alloys. **2023**, 939, 168724 ○
- 480 Contribution of coherent precipitates on mechanical properties of CoCrFeNiTi_{0.2} high-entropy alloy at room and cryogenic temperatures. **2023**, 154, 107820 ○
- 479 Novel applications of ferroalloys for manufacturing of ultra-clean CoCrFeMnNi high-entropy alloy by slagging method. **2023**, 939, 168692 ○
- 478 Microstructure and properties of FeCoNiCrAl high-entropy alloy particle-reinforced Cu-matrix composites prepared via FSP. **2023**, 940, 168906 ○
- 477 Effect of Cu content on the microstructure and mechanical properties of FeNiMnCu_xAl_{0.1}Ti_{0.1} ($x = 0.5, 1.0$ and 1.5) high entropy alloy system. **2023**, 940, 168819 ○
- 476 Structure, Phase Composition and Mechanical Properties for the High Entropy Solid Solutions Based upon MnFeCoNiCu System Versus Collective Behaviour of their Constituents. **2022**, 44, 1711-1733 ○

- 475 Investigation of PbSnTeSe High-Entropy Thermoelectric Alloy: A DFT Approach. **2023**, 16, 235 ○
- 474 Microstructure Evolution and Mechanical Properties of a TiAl Alloy Modified by High-Entropy Alloy Additions. ○
- 473 Study of Al Addition on Sintered CuCrFeNiTi as a Potential Alloy for Automotive Components. **2023**, 13, 77 ○
- 472 Review of Novel High-Entropy Protective Materials: Wear, Irradiation, and Erosion Resistance Properties. **2023**, 25, 73 ○
- 471 Fabricating polymer/HEA-hybrid topological lattice structure for enhanced mechanical properties. **2022**, ○
- 470 Exceptional Soft Magnetic Properties of an Ordered Multi-principal Element Alloy with Disordered Nanoprecipitates. ○
- 469 Non-equilibrium grain boundaries in additively manufactured CoCrFeMnNi high-entropy alloy: Enhanced diffusion and strong segregation. **2022**, 132, 245105 1
- 468 Effect of High Pressure Torsion on Microstructure and Properties of Intermetallic Containing CoCrFeNi_{2.1}Nb_{0.2} High Entropy Alloy: Comparative Insights. ○
- 467 Phase Prediction and Visualized Design Process of High Entropy Alloys via Machine Learned Methodology. **2023**, 13, 283 ○
- 466 Phase field method to study the mechanism of Cu-rich phase precipitation in Al_xCuMnNiFe high-entropy alloy. **2023**, 0 ○
- 465 Enhanced Surface Properties of the Al_{0.65}CoCrFeNi High-Entropy Alloy via Laser Remelting. **2023**, 16, 1085 1
- 464 Effects of the Environment and Temperature on the Tribological Behavior of TiZrHfNbTa Refractory High-Entropy Alloy. ○
- 463 The Effect of Copper on the Microstructure, Wear and Corrosion Resistance of CoCrCuFeNi High-Entropy Alloys Manufactured by Powder Metallurgy. **2023**, 16, 1178 ○
- 462 Short-range order and compositional phase stability in refractory high-entropy alloys via first-principles theory and atomistic modeling: NbMoTa, NbMoTaW, and VNbMoTaW. **2023**, 7, ○
- 461 Rapid alloying in additive manufacturing using integrated computational materials engineering. **2023**, 583-624 ○
- 460 Stabilization of Equiatomic Solutions Due to High-Entropy Effect. **2023**, ○
- 459 Effect of Y on Microstructure and Properties of Al_{0.8}FeCrCoNiCu_{0.5} High Entropy Alloy Coating on 5083 Aluminum by Laser Cladding. **2023**, 11, 50 ○
- 458 High entropy liquid electrolytes for lithium batteries. **2023**, 14, 1

- 457 A review on BCC-structured high-entropy alloys for hydrogen storage. 10, ○
- 456 Domain knowledge aided machine learning method for properties prediction of soft magnetic metallic glasses. **2023**, 33, 209-219 ○
- 455 Fe₂₀Mo₂₀Ni₂₀Rh₂₀Ru₂₀ and Fe₁₄Mo₃₅Ni₁₅Rh₁₅Ru₁₄ Ultrahigh-Mixing-Entropy Alloys with Single Hexagonal Close-Packed Structure. **2023**, ○
- 454 Irradiation behavior of HfNbTaTiV in comparison of HfNbTaTiZr and F82H. 1-7 ○
- 453 Additive manufacturing of high-entropy alloy composites: A review. **2023**, 33, 1-24 ○
- 452 Viscosity of Cu-based binary alloys. **2023**, 27, ○
- 451 Influence of hydrogen on a nanocrystalline high-entropy oxide with application potential in hydrogen technologies. **2023**, ○
- 450 Strange Metallicity and Magnetic Order in the CoNi(Cr/V) Medium-Entropy Alloy System. **2023**, 16, 1044 ○
- 449 Corrosion-Resistant Coating Based on High-Entropy Alloys. **2023**, 13, 205 ○
- 448 Dataset for Fracture and Impact Toughness of High-Entropy Alloys. **2023**, 10, ○
- 447 Experimental and Computational Study of Microstructure of Al₂FeCoNiCu High-Entropy Alloy. ○
- 446 Strength and ductility synergy of Nb-alloyed Ni_{0.6}CoFe_{1.4} alloys. **2023**, 30, 707-714 ○
- 445 Entropy-driven Liquid Electrolytes for Lithium Batteries. 2210677 1
- 444 Computational Design of an Ultra-Strong High-Entropy Alloy. **2023**, 43-50 ○
- 443 Microstructure and Properties of Laser Cladding Al_xFeCoCrNiMn High Entropy Alloy of Q345 Steel. 26, ○
- 442 High-Entropy Alloy Catalysts toward Multi-Functionality: Synthesis, Application, and Material Discovery. **2023**, ○
- 441 Computing grain boundary phase diagrams. **2023**, 2, 137-160 1
- 440 Large Refrigerant Capacity Induced by Table-Like Magnetocaloric Effect in High-Entropy Alloys TbDyHoEr. 2201770 ○

- 439 Short-Term Splitting and Long-Term Stability of Cuboidal Nanoparticles in Ni₄₄Co₂₂Cr₂₂Al₆Nb₆ Multi-Principal Element Alloy. ○
- 438 Novel nano-lamellar AlCoCrFeMn_{0.5}Mo_{0.1}Nb_x eutectic high-entropy alloy coatings by ultrasonic assisted laser cladding: Microstructure and tribological behaviors. **2023**, 156, 107851 ○
- 437 Microstructure tailoring by manipulating chemical composition in novel CoNiMnCrAl high-entropy alloys. **2023**, 944, 169207 ○
- 436 Corrosion and passive behavior of Al_{0.8}CrFeNi_{2.2} eutectic high entropy alloy in different media. **2023**, 944, 169217 ○
- 435 Comparative study on microstructures and mechanical properties of ultra ductility single-phase Nb₄₀Ti₄₀Ta₂₀ refractory medium entropy alloy by selective laser melting and vacuum arc melting. **2023**, 942, 169065 ○
- 434 Synthesis of a new class of high-entropy nitride ceramics and the effects of nitrogen vacancies on their magnetic properties. **2023**, 618, 156543 ○
- 433 Development of a high strength, low density and corrosion resistant novel FeCrMoNb_{1.5}Ti_{0.5} complex concentrated alloy. **2023**, 35, 105521 ○
- 432 Phase-field study of elastic effects on precipitate evolution in (Al)_{0.05}CrFeNi. **2023**, 247, 108163 ○
- 431 As-cast Co-free Al_{0.4}Ni_{0.4}CrFe high entropy alloy with hierarchical coherent precipitates and remarkable mechanical properties. **2023**, 35, 105565 ○
- 430 Dislocation behavior in initial stage of plastic deformation for CoCrNi medium entropy alloy. **2023**, 943, 169057 ○
- 429 High-entropy alloys in water electrolysis: Recent advances, fundamentals, and challenges. ○
- 428 Evolution of the Phase Composition of the Cantor CoCrFeNiMn Alloy during Prolonged Annealing. **2022**, 123, 1161-1170 ○
- 427 Superplasticity in Severely Deformed High-Entropy Alloys. **2023**, ○
- 426 ????????VNbMoTaW?????????. **2023**, 60, 0514001 ○
- 425 TiVNb-based high entropy alloys as catalysts for enhanced hydrogen storage in nanostructured MgH₂. **2023**, 11, 4789-4800 ○
- 424 Mechanisms of chemical-reaction-induced tensile deformation of an Fe/Ni/Cr alloy revealed by reactive atomistic simulations. **2023**, 13, 6630-6636 ○
- 423 Progress in electrocatalytic hydrogen evolution of transition metal alloys: synthesis, structure, and mechanism analysis. ○
- 422 N₂ adsorption on high-entropy alloy surfaces: unveiling the role of local environments. ○

- 421 Processing and characterizations of powder of the AlCoCuFeNi high entropy alloy. ○
- 420 The Influence of Annealing at 500 and 900 °C on the Structure and Mechanical Properties of Al_xCoCrFeNi Alloys. **2023**, 16, 1245 ○
- 419 Surface Characterization of TiTaNbCuZr Coated Films and Its Enhanced Mechanical, Bio-Corrosion and Biocompatibility. ○
- 418 Sintering, Microstructure, and Mechanical Properties of TiTaNbZrHf High-Entropy Alloys Prepared by Cold Isostatic Pressing and Pressure-Less Sintering of Hydrides. **2023**, 16, 1759 ○
- 417 Elemental synergistic effect in Co_xCrCuFeMnNi high-entropy alloys and its influence on phase and magnetic properties. **2023**, 23, 2542-2556 ○
- 416 Influence of Milling Conditions on Al_xCoCrFeNiMo_y Multi-Principal-Element Alloys. **2023**, 13, 662 ○
- 415 Microstructure and Properties of AlCrCoFe_xNiCu High-Entropy Alloy Coating Synthesized via Cold Spraying-Assisted Induction Remelting Method. ○
- 414 Phase predictions via thermodynamic parameter (ΔH_{mix} vs enthalpy mix (ΔH_{mix}) for (Cr_{1-x}Fe_xNiTiNb) high-entropy alloy. ○
- 413 Emerging Functional Metals in Additive Manufacturing. 2201800 ○
- 412 High-Entropy Nanomaterials for Advanced Electrocatalysis. ○
- 411 Effects of rare earth elements on AlCoCrFeNi_{2.1} eutectic high-entropy alloy. 1-10 ○
- 410 Near-superplastic behavior of a body-centered cubic Zr₅₀Ti₃₅Nb₁₅ multi-principal element alloy via dynamic recrystallization. **2023**, 227, 115308 ○
- 409 Experimental and First-Principles Study of Visible Light Responsive Memristor Based on CuAlAgCr/TiO₂/W Structure for Artificial Synapses with Visual Perception. 2201320 ○
- 408 In situ formation of spherical MoS₂ particles on high-entropy alloy coating for low friction. **2023**, 127761 ○
- 407 A Lightweight AlCrTiV_{0.5}Cu_x High-Entropy Alloy with Excellent Corrosion Resistance. **2023**, 16, 2922 ○
- 406 Rational design of high-entropy ceramics based on machine learning | A critical review. **2023**, 27, 101057 ○
- 405 Influence mechanism of AlCoCrFeNi content on the wide temperature domain tribological properties of WC-based cemented carbides. **2023**, 112, 106159 ○
- 404 Chemical vapor deposition of entropy-stabilized rock-salt type oxide thin films. **2023**, 337, 133955 ○

- 403 Temperature dependence of the yield stress in TiZrNbHfTa body-centred cubic high-entropy alloy. **2023**, 871, 144917 ○
- 402 Microstructures, Mechanical and High-Temperature Tribological Properties of Dual-Phase Fe50Mn30Co10Cr10 High-Entropy Alloy Fabricated by Laser Metal Deposition. ○
- 401 High-density nanoprecipitates and phase reversion via maraging enable ultrastrong yet strain-hardenable medium-entropy alloy. **2023**, 248, 118810 ○
- 400 Microstructure and mechanical properties of novel AlCuMgZn lightweight entropy alloys for elevated-temperature applications. **2023**, 112927 ○
- 399 Interfacial microstructure evolution and mechanical properties of AlCoCrFeNi2.1 alloy by multilayer additive hot compression bonding. **2023**, 156, 107867 ○
- 398 Additive manufacturing of ductile refractory high-entropy alloys via phase engineering. **2023**, 248, 118781 ○
- 397 A comparative study of irradiation response in amorphous TaTiWVCr refractory high entropy alloy with the counterpart of tungsten films. **2023**, 156, 107850 ○
- 396 Enhancing hydrogen embrittlement resistance of medium entropy alloys by forming dislocation cell walls. **2023**, 215, 111023 ○
- 395 Effects of equivalent composition on superconducting properties of high-entropy REOBiS2 (RE=La, Ce, Pr, Nd, Sm, Gd) single crystals. **2023**, 608, 1354254 ○
- 394 A simple phenomenological model to describe stability of homogeneous solid solutions in high entropy alloys from metallic bonding potential. **2023**, 28, 101744 ○
- 393 Enhanced strength-ductility synergy of medium-entropy alloys via multiple level gradient structures. **2023**, 164, 103592 ○
- 392 L21-strengthened face-centered cubic high-entropy alloy with well pitting resistance. **2023**, 215, 111043 ○
- 391 Trace B doping Fe50Mn30Co10Cr10 high entropy alloy: Mechanical response and multi-microstructure evolution under TWIP and TRIP effects. **2023**, 873, 145037 ○
- 390 Nanocrystalline AlCoFeNiTiZn high entropy Alloy: Microstructural, Magnetic, and thermodynamic properties. **2023**, 34, 104009 ○
- 389 Effects of aluminum addition on microstructures and mechanical properties of NbTiVZr high-entropy alloy nitride films. **2023**, 156, 107868 ○
- 388 Microstructure evolution and deformation mechanism of coherent L12-strengthened high-entropy alloy during sliding wear. **2023**, 256, 110651 ○
- 387 Prediction of mechanical properties of AlTiCrVnb high entropy alloys with B2 ordered structure. **2023**, 24, 440-448 ○
- 386 Preparation of high entropy ceramics with ultra-low lattice thermal conductivity using the high-pressure and high-temperature method. **2023**, 199, 112792 ○

- 385 In-situ synthesis of a FeCoCrNiCu/FeCoCrNiAl composite high entropy alloy coating by laser cladding. **2023**, 461, 129447 ○
- 384 A Co-rich chemically complex intermetallic alloy with extraordinary strength-ductility synergy. **2023**, 229, 115371 ○
- 383 Assessing the high concentration of vacancies in refractory high entropy alloys. **2023**, 28, 101764 ○
- 382 Microstructural stability and properties of Al_{1.2}CrCuFeNi₂ dual-phase high entropy alloy. **2023**, 338, 134052 ○
- 381 Deformation behavior and strengthening effects of an eutectic AlCoCrFeNi_{2.1} high entropy alloy probed by in-situ synchrotron X-ray diffraction and post-mortem EBSD. **2023**, 872, 144946 ○
- 380 Phase stability and possible superconductivity of new 4d and 5d transition metal high-entropy alloys. **2023**, 321, 123881 ○
- 379 Microstructure and properties of Al_{0.5}NbTi₃VxZr₂ refractory high entropy alloys combined with high strength and ductility. **2023**, 24, 1733-1743 ○
- 378 Simultaneously optimizing the strength and ductility of high-entropy alloys by magnetic field-assisted additive manufacturing. **2023**, 947, 169688 ○
- 377 Design rules for the thermal and elastic properties of rare-earth disilicates. **2023**, 28, 101729 ○
- 376 Strengthening of CoCrNi medium entropy alloy with gadolinium additions. **2023**, 211, 111969 ○
- 375 Microstructure, mechanical properties, and wear behavior of AlCoCrFeNi high-entropy alloy and AlCrFeNi medium-entropy alloy with WC addition. **2023**, 522, 204701 ○
- 374 Oxidation behavior of AlCoCrFeNiSix high entropy alloy bond coatings prepared by atmospheric plasma spray. **2023**, 462, 129489 ○
- 373 Nano-structuring of a high entropy alloy by severe plastic deformation: Experiments and crystal plasticity simulations. **2023**, 250, 118814 ○
- 372 Machine learning approach for predicting yield strength of nitrogen-doped CoCrFeMnNi high entropy alloys at selective thermomechanical processing conditions. **2023**, 24, 2621-2628 ○
- 371 Yield and flow properties of ultra-fine, fine, and coarse grain microstructures of FeCoNi equiatomic alloy at ambient and cryogenic temperatures. **2023**, 230, 115392 ○
- 370 Microstructure characterization and corrosion behavior of Al_x(CoCrFeNi)_{100-x} (x=0, 5, 10, 15, 20) high entropy alloys in 0.5M H₂SO₄ solution. **2023**, 944, 169247 ○
- 369 Tunable magnetic phase transition and magnetocaloric effect in the rare-earth-free Al-Mn-Fe-Co-Cr high-entropy alloys. **2023**, 229, 111894 ○
- 368 In situ synthesis of N-containing CoCrFeNi high entropy alloys with enhanced properties fabricated by selective laser melting. **2023**, 229, 111891 ○

- 367 Effect of Mo addition on microstructure and wear resistance of laser clad AlCoCrFeNi-TiC composite coatings. **2023**, 623, 157071 ○
- 366 Super capacity of boron on the grain refinement of FeCoCrNiMn high entropy alloy. **2023**, 945, 169320 ○
- 365 Laser powder-bed fusion of a high entropy alloy with outstanding intrinsic mechanical properties. **2023**, 945, 169209 ○
- 364 Development and characterization of a novel high entropy alloy strengthened through concurrent spinodal decomposition and precipitation. **2023**, 947, 169706 ○
- 363 Enhancement on mechanical properties of CoCrNi medium entropy alloy via cold spray additive manufacturing associated with sintering. **2023**, 94, 413-423 ○
- 362 Exploring strengthening mechanism of FeCoNiAl high-entropy alloy by non-metallic silicon addition produced via powder metallurgy. **2023**, 947, 169545 ○
- 361 Theoretical study on surface stability, distortion and oxygen adsorption behavior of TiZrHfNb high entropy alloys. **2023**, 732, 122273 ○
- 360 Development of Ti-V-Nb-Cr-Mn high entropy alloys for hydrogen storage. **2023**, 945, 169289 ○
- 359 Development and characterization of boride-reinforced CoCrFeNi composites. **2023**, 947, 169535 ○
- 358 Superplastic behavior of Al₁₅(CuFeMn)₈₅ immiscible medium-entropy alloy. **2023**, 157, 107883 ○
- 357 Hard yet tough thermodynamics-driven nanostructured (AlCrNbSixTi)N multicomponent nitride hard coating. **2023**, 947, 169645 ○
- 356 A novel strategy for architecting low interfacial energy transition phase to enhance thermal stability in a high-entropy alloy. **2023**, 947, 169570 ○
- 355 Favorable property integration in high entropy alloys via dissimilar friction stir welding: A case study using Al_{0.3}CoCrFeNi and Fe_{38.5}Co₂₀Mn₂₀Cr₁₅Si₅Cu_{1.5} HEAs. **2023**, 35, 105822 ○
- 354 Explaining of prediction accuracy on phase selection of amorphous alloys and high entropy alloys using support vector machines in machine learning. **2023**, 35, 105694 ○
- 353 Excellent combination of compressive strength and strain of AlCrFeNi MPEAs via adding Ti and V. **2023**, 947, 169560 ○
- 352 Development of wear-resistant dual-phase high-entropy alloys enhanced by C15 Laves phase. **2023**, 200, 112879 ○
- 351 Effect of manganese on mechanical properties and deformation mechanism of CoCrFeNi high entropy alloys. **2023**, 35, 105844 ○
- 350 The chromization on hot-rolled Fe₄₀Mn₂₀Cr₂₀Ni₂₀ high-entropy alloys by pack cementation. **2023**, 947, 169582 ○

- 349 Microstructure, mechanical and tribological behavior of CrHfNbTaTiCxNy high-entropy carbonitride coatings prepared by double glow plasma alloy. **2023**, 523, 204751 ○
- 348 Deformation behavior of high-entropy alloys under dual-tip probe scratching. **2023**, 946, 169427 ○
- 347 Microstructures, mechanical properties, and irradiation tolerance of the TiZrNbW refractory high-entropy alloys. **2023**, 157, 107873 ○
- 346 Investigation of mechanical and corrosion properties of light and high hardness cast AlTiVCrCu0.4 high entropy alloy. **2023**, 200, 112878 ○
- 345 Eutectic high entropy alloy syntactic foam. **2023**, 149, 177-189 ○
- 344 Strategies to engineer FeCoNiCuZn high entropy alloy composition through aqueous electrochemical deposition. **2023**, 453, 142350 ○
- 343 Probing plastic mechanisms in gradient dual-phase high-entropy alloys under nanoindentation. **2023**, 946, 169424 ○
- 342 The collaborative effect of carbon-borides and the redistribution of Ni, Cr and Mo on the corrosion and wear resistance of NiCrMoCB coatings. **2023**, 212, 111981 ○
- 341 Multistage strain-hardening behavior of ultrastrong and ductile lightweight refractory complex-concentrated alloys. **2023**, 149, 73-87 ○
- 340 Mechanical properties and strengthening mechanism of the nano-sized m-ZrO₂ ceramic particle reinforced NbMoTaW refractory high-entropy alloy. **2023**, 113, 106201 ○
- 339 Recent experimental and theoretical advances in the design and science of high-entropy alloy nanoparticles. **2023**, 110, 108362 ○
- 338 Design, preparation and study of microstructure, phase evolution and thermal stability of Ti-Co_{0.35}-Cr_{0.35}-Nb-Zr nanocrystalline HEA for biomedical applications. **2023**, 35, 105557 ○
- 337 Properties of a new TiTaZrHfW(N) refractory high entropy film deposited by reactive DC pulsed magnetron sputtering. **2023**, 462, 129503 ○
- 336 Investigations on the microstructures and tribological behaviors of as-cast CrFeCoNiCux high entropy alloys. **2023**, 157, 107886 ○
- 335 Structure, dielectric, and relaxor properties of BaTiO₃-modified high-entropy (Bi_{0.2}Na_{0.2}K_{0.2}Ba_{0.2}Ca_{0.2})TiO₃ ceramics for energy storage applications. **2023**, 947, 169626 ○
- 334 Emerging high-entropy materials as electrocatalysts for rechargeable zinc-air batteries. **2023**, 39, 101264 ○
- 333 A review on the dynamic-mechanical behaviors of high-entropy alloys. **2023**, 135, 101090 1
- 332 Study on microstructure and the hydrogen storage behavior of a TiVZrNbFe high-entropy alloy. **2023**, 157, 107885 ○

- 331 Machine learning and visualization assisted solid solution strengthening phase prediction of high entropy alloys. **2023**, 35, 105894 ○
- 330 Microstructure and wear behavior of (ZrTaNb)C/N quaternary ceramic coatings prepared by double-cathode glow plasma surface alloying on titanium alloy. **2023**, 523, 204789 ○
- 329 Microstructure, mechanical properties and high temperature corrosion of [AlTiCrNiTa/(AlTiCrNiTa)N]₂₀ high entropy alloy multilayer coatings for nuclear fuel cladding. **2023**, 212, 112057 ○
- 328 Microstructural evolution, strengthening and high thermal conductivity mechanisms of FeCrV-based medium-entropy alloys with Laves phase precipitation formed by adding minimal Ti. **2023**, 200, 112860 ○
- 327 Two novel Zr-rich refractory high-entropy alloys with excellent tensile mechanical properties. **2023**, 157, 107872 ○
- 326 Dynamic mechanical relaxation behavior of TiZrHfCu-Ni/Be/NiBe high-entropy metallic glasses. **2023**, 157, 107887 ○
- 325 Microstructure evolution and strengthening mechanisms in Ni₃₆Co₃₀Cr₁₁Fe₁₁Al₁₂-Nb high entropy alloys. **2023**, 946, 169390 ○
- 324 Excellent strength-ductility combination of Cr₂₆Mn₂₀Fe₂₀Co₂₀Ni₁₄ high-entropy alloy at cryogenic temperatures. **2023**, 154, 166-177 ○
- 323 CALPHAD aided mechanical properties screening in full composition space of NbC-TiC-VC-ZrC ultra-high temperature ceramics. **2023**, 113, 106191 ○
- 322 Uncertainty quantification of predicting stable structures for high-entropy alloys using Bayesian neural networks. **2023**, 81, 118-124 ○
- 321 Directly cast fibrous heterostructured FeNi_{0.9}Cr_{0.5}Al_{0.4} high entropy alloy with low-cost and remarkable tensile properties. **2023**, 230, 115421 ○
- 320 Superior dynamic shear properties by structures with dual gradients in medium entropy alloys. **2023**, 153, 166-180 ○
- 319 Light-weight refractory high-entropy alloys: A comprehensive review. **2023**, 151, 41-65 ○
- 318 Microstructure and properties of AlCoCrFeNi_{2.1} eutectic high entropy alloy manufactured by selective laser melting. **2023**, 163, 109396 ○
- 317 Unraveling the origin of the excellent high-temperature oxidation resistance of an AlCrFeNiTi complex concentrated alloy. **2023**, 217, 111116 ○
- 316 Enhanced strengthening effect of aging heat treatment found in additively-formed CoCrFeNiTi-based multiprincipal element alloy. **2023**, 35, 105938 ○
- 315 Design and characterization of a novel Cu_{2.3}Al_{1.3}Ni_{1.7}SnCr_{0.3} multi-principal element alloy coating on magnesium alloy by laser cladding. **2023**, 152, 220-236 ○
- 314 Phase inversion in a lightweight high Al content refractory high-entropy alloy. **2023**, 150, 124-137 ○

- 313 Corrosion and corrosive wear of AlCrFeCoNi and Co-free AlCrFeNi-Tix ($x = 0.5$) high-entropy alloys in 3.5wt % NaCl and H₂SO₄ (pH = 3) solutions. **2023**, 523, 204765 ○
- 312 Interpretable hardness prediction of high-entropy alloys through ensemble learning. **2023**, 945, 169329 ○
- 311 Active screen plasma nitriding of a Si-alloyed FeCrNi medium entropy alloy: High interstitial absorption and an anomalous Si-induced decomposition mechanism in N-expanded austenite. **2023**, 624, 157137 ○
- 310 Alloying behavior of W and Mo in the as-cast dual-phase FeNiCrAl multi-component alloys. **2023**, 951, 169951 ○
- 309 The microstructural evolution of dual phase high entropy alloy thin films by annealing. **2023**, 953, 170102 ○
- 308 Low-density CoAlTi-B₂ strengthened Al-Co-Cr-Mo-Ti bcc refractory high-entropy superalloy designed with the assistance of high-throughput CALPHAD method. **2023**, 952, 170027 ○
- 307 Novel CoFeAlMn high-entropy alloys with excellent soft magnetic properties and high thermal stability. **2023**, 153, 22-31 ○
- 306 Microstructure evolution and performance enhancement of NbTaTiV-(Cr, Zr, W) single-phase refractory high-entropy alloy coatings: Role of additional elements. **2023**, 951, 169918 ○
- 305 Effects of WS₂ and Cr₃C₂ addition on microstructural evolution and tribological properties of the self-lubricating wear-resistant CoCrFeNiMo composite coatings prepared by laser cladding. **2023**, 163, 109442 ○
- 304 A novel Fe-rich non-equiatomic medium-entropy alloy with superior mechanical properties. **2023**, 952, 170029 ○
- 303 Porous bio-high entropy alloy scaffolds fabricated by direct ink writing. **2023**, 157, 21-29 ○
- 302 Oxygen-assisted spinodal structure achieves 1.5 GPa yield strength in a ductile refractory high-entropy alloy. **2023**, 157, 11-20 ○
- 301 Cryo-rolling and annealing-mediated nano/ultrafine structure, texture, and properties of extremely low stacking-fault energy high entropy alloys: Comparative perspectives. **2023**, 953, 170025 ○
- 300 The influence of water vapour on high-temperature oxidation of Al,Co,Cr,Ni-containing high entropy alloys under thermal shock conditions. **2023**, 952, 170054 ○
- 299 Fretting wear resistance at ambient and elevated temperatures of 316 stainless steel improved by laser cladding with Co-based alloy/WC/CaF₂ composite coating. **2023**, 163, 109428 ○
- 298 Superconducting Properties of High-Entropy Type RE123 Thin Films by Fluorine-Free MOD Method. **2023**, 33, 1-3 ○
- 297 Effects of laser powder bed fusion process parameters on microstructure and hydrogen embrittlement of high-entropy alloy. **2023**, 155, 211-226 ○
- 296 Thermophysical Properties of High-entropy Carbide (HfTaTiNbZr)C at Temperatures of 2500-500 K. **2022**, 60, 612-615 ○

- 295 Microstructure, Non-isothermal Crystallization Kinetics and Magnetic Behaviour Study of [FeCoNi $_{100-x}$ (SiMn) $_x$] High Entropy Amorphous Alloys Synthesized by Mechanical Alloying. ○
- 294 Atomistic simulations of martensitic transformation processes for metastable FeMnCoCr high-entropy alloy. ○
- 293 Effect of Ni/Al Ratio on Solidification Structure and Properties of NiAl-Based Multi-principal Element Alloy. ○
- 292 Development of high strength high plasticity refractory high entropy alloy based on Mo element optimization and advanced forming process. **2023**, 112, 106163 ○
- 291 Nano-tribological behavior of CuCoCrFeNi high-entropy alloys at cryogenic temperature: A molecular dynamics study. **2023**, 133, 155901 ○
- 290 Multiscale-phase-driven strength-ductility synergy in Fe $_3$ Cr $_2$ CoNiAl $_x$ high entropy alloys. **2023**, 156, 107865 ○
- 289 Achieving superior superplasticity in CoCrFeNiCu high entropy alloy via friction stir processing with an improved convex tool. **2023**, 145034 ○
- 288 Microstructural evolution, mechanical and wear properties, and corrosion resistance of as-cast CrFeNbTiMox Refractory high entropy alloys. **2023**, 155, 107829 ○
- 287 A novel Ti $_{45}$ V $_{45}$ (AlCrMo) $_{10}$ lightweight medium-entropy alloy with outstanding mechanical properties. **2023**, 339, 134089 ○
- 286 Formation of chemical short-range orders of two kinds and the co-existence with medium-range orders in an equiatomic VFeCoNi alloy. **2023**, 158, 107896 ○
- 285 Computational design of one FeCoNiCuZn high-entropy alloy for high-performance electrocatalytic nitrate reduction. **2023**, 626, 157246 ○
- 284 Hardness enhancement mechanism of Al $_x$ CoCrFeNiSi high-entropy alloy coatings prepared by laser cladding. **2023**, 158, 107909 ○
- 283 Influence of V and Al in enhancing the strength and ductility of Co-rich high-entropy alloys. **2023**, 948, 169745 ○
- 282 Effect of warm-rolling on microstructure and superior mechanical properties of a cost-effective AlCrFe $_2$ Ni $_2$ high entropy alloy. **2023**, 948, 169783 ○
- 281 Recent advances in tribology of high entropy alloys: A critical review. **2023**, 136, 101106 ○
- 280 Microstructure evolution and frictional wear behavior of laser cladding FeCrCoNiMo $_{0.5}$ W $_x$ high-entropy alloy coatings. **2023**, 158, 107888 ○
- 279 Micromechanical origin for the wide range of strength-ductility trade-off in metastable high entropy alloys □ **2023**, 231, 115439 ○
- 278 A critical review on temperature dependent irradiation response of high entropy alloys. **2023**, 948, 169624 ○

- 277 Solidification sequence of CrMnFeCoCu dual-FCC multicomponent alloy. **2023**, 231, 115459 ○
- 276 Transport properties of refractory high-entropy alloys with single-phase body-centered cubic structure. **2023**, 231, 115464 ○
- 275 Tribocorrosion behavior of high-entropy alloys FeCrNiCoM (M = Al, Mo) in artificial seawater. **2023**, 218, 111165 ○
- 274 Fabrication of FeCoNi medium-entropy alloy nanoparticles by high-repetition-rate UV picosecond laser ablation in water. **2023**, 950, 169896 ○
- 273 Strengthening and toughening bulk Ni₂CoFeV_{0.5} medium-entropy alloy via thermo-mechanical treatment. **2023**, 151, 19-29 ○
- 272 A novel AlMoNbHfTi refractory high-entropy alloy with superior ductility. **2023**, 940, 168821 ○
- 271 Temperature-dependent yield stress of single crystals of non-equiatomic Cr-Mn-Fe-Co-Ni high-entropy alloys in the temperature range 10-1173 K. **2023**, 246, 118712 ○
- 270 Dynamic softening kinetics of Al_{0.3}CoCrFeNi high-entropy alloy during high temperature compression and its correlation with the evolving microstructure and micro-texture. **2023**, 197, 112693 ○
- 269 SLM Fe₅₀Mn₃₀Co₁₀Cr₁₀ metastable high entropy alloy with Al-Ti addition: Synergizing strength and ductility. **2023**, 941, 168830 ○
- 268 Creation of Gases with Interplanetary Oxygen Concentration at Atmospheric Pressure by Nanoparticle Aerosol Scavengers: Implications for Metal Processing from nm to mm Range. **2023**, 6, 1660-1666[○]
- 267 Tensile behavior of hexagonal rare-earth-based low, medium, and high entropy alloys: Strengthening effect of configurational entropy. **2023**, 155, 107835 ○
- 266 The interactions between dislocations and displacement cascades in FeCoCrNi concentrated solid-solution alloy and pure Ni. **2023**, 576, 154286 ○
- 265 Defective multi-element hydroxides nanosheets for rapid removal of anionic organic dyes from water and oxygen evolution reaction. **2023**, 447, 130803 ○
- 264 Dual-effects of carbon doping on the recrystallization kinetics of the Cantor alloy during mid-temperature annealing. **2023**, 155, 107828 ○
- 263 Designing CoCrFeNi-M (M = Nb, Ta, Zr, and Hf) eutectic high-entropy alloys via a modified simple mixture method. **2023**, 941, 168975 ○
- 262 Effect of harmonic structure on the electrochemical behavior of high entropy Cantor alloy in NaCl solution. **2023**, 298, 127414 ○
- 261 Balanced mechanical properties of Al_{0.3}CoCrFeNiTi_x high-entropy alloys by tailoring Ti content and heat treatment. **2023**, 866, 144677 ○
- 260 Competition between solid solution and multi-component Laves phase in a dual-phase refractory high-entropy alloy CrHfNbTaTi. **2023**, 226, 111646 ○

- 259 Formation condition and effect on the early stages of plastic deformation of chemical short-range order in Cr-Co-Ni medium-entropy alloy. **2023**, 941, 169016 ○
- 258 Investigation on microstructure, superior tensile property and its mechanism in Al_{0.3}CoCrFeNi high-entropy alloy via thermo-mechanical processing. **2023**, 866, 144690 ○
- 257 pySSpredict: A python-based solid-solution strength prediction toolkit for complex concentrated alloys. **2023**, 220, 111977 ○
- 256 Dry abrasive wear and solid particle erosion assessments of high entropy alloy coatings fabricated by cold spraying. **2023**, 34, 105527 1
- 255 A physics-based machine-learning approach for modeling the temperature-dependent yield strengths of medium- or high-entropy alloys. **2023**, 31, 101747 1
- 254 Uncovering wear mechanism of a Fe₂Ni₂CrAl multi-principal elements alloy. **2023**, 58, 2660-2675 ○
- 253 Microstructure, Phase Evolution, and Chemical Behavior of CrCuFeNiTiAl_x High Entropy Alloys Processed by Mechanical Alloying. **2023**, 25, 256 ○
- 252 Twenty years of the CoCrFeNiMn high-entropy alloy: achieving exceptional mechanical properties through microstructure engineering. **2023**, 23, 3362-3423 ○
- 251 Understanding the yield strength difference in dual-phase eutectic high-entropy alloys. **2023**, 867, 144725 ○
- 250 A novel single-crystal L1₂-strengthened Co-rich high-entropy alloy with excellent high-temperature strength and antioxidant property. **2023**, 23, 2343-2350 ○
- 249 Excellent dynamic-mechanical behavior assisted by stacking faults in a nano-coherent high-entropy alloy. **2023**, 867, 144727 ○
- 248 Cathodic arc deposition of high entropy alloy thin films with controllable microstructure. **2023**, 37, 102692 ○
- 247 High-entropy grain boundaries. **2023**, 4, 1
- 246 Magnetic anisotropy of high-entropy oxides with negative Poisson's ratio. **2023**, 49, 16625-16629 ○
- 245 Manufacturing of Metal-Diamond Composites with High-Strength CoCrCu_xFeNi High-Entropy Alloy Used as a Binder. **2023**, 16, 1285 1
- 244 First-principles prediction of configurational order-disorder phase transition in Mo₂(Ti_{1-x}V_x)C₂ MXene alloys. **2023**, 2431, 012041 ○
- 243 Exceptional strength-ductility combination of CoCrFeMnNi high-entropy alloy with fully recrystallized structure by selective laser melting after post-deformation annealing. **2023**, 23, 3166-3176 ○
- 242 Phase Transformations Caused by Heat Treatment and High-Pressure Torsion in TiZrHfMoCrCo Alloy. **2023**, 16, 1354 ○

- 241 Recent progress on understanding the temperature-dependent irradiation resistance ranking among NiFe, NiCoCr, and NiCoFeCr alloys: A review. **2023**, 38, 1510-1526 ○
- 240 Molten Salt Corrosion Behavior of Dual-Phase High Entropy Alloy for Concentrating Solar Power Systems. **2023**, 25, 296 1
- 239 Thermodynamic Analysis of CoCrFeNi High-Entropy Alloys Prepared by Molten Salt Method. **2023**, 1202-1211 ○
- 238 The effect of Si addition on the structure and mechanical properties of equiatomic CoCrFeMnNi high entropy alloy by experiment and simulation. **2023**, 27, 101707 ○
- 237 Tuning microstructure and mechanical and wear resistance of ZrNbTiMo refractory high-entropy alloy films via sputtering power. 10, ○
- 236 Development of Refractory High Entropy Alloys with Tensile Ductility at Room Temperature. **2023**, 13, 329 ○
- 235 Single-phase lightweight high-entropy alloys with enhanced mechanical properties. **2023**, 227, 111709 ○
- 234 Solidification Simulation and Experimental Validation of Single-Phase FeCoCrNiVAl High-Entropy Alloy. ○
- 233 An ultra-strong and ductile crystalline-amorphous nanostructured surface layer on TiZrHfTaNb0.2 high-entropy alloy by laser surface processing. **2023**, 227, 111710 ○
- 232 Effects of Grain Size and Cryogenic Temperature on the Strain Hardening Behavior of VCoNi Medium-Entropy Alloys. ○
- 231 Tribological properties of (Al)₁₀(FeCoNiCu)₉₀ high entropy alloy. **2023**, 17, 72-80 ○
- 230 Radiation shielding ability and optical features of La₂O₃+TiO₂+Nb₂O₅+WO₃+X₂O₃ (X=B, Ga, and In) glass system containing high-entropy oxides. **2023**, 9, e13607 ○
- 229 A novel alloy design for non-equiatomic high-entropy alloy (CrFeNiTiNb): predicting entropy mix and enthalpy mix. ○
- 228 Microstructure and mechanical properties of the Nb_{37.7}Mo_{14.5}Ta_{12.6}Ni_{28.16}Cr_{7.04} multi-principal alloys fabricated by gas tungsten wire arc welding additive manufacturing. **2023**, 210, 111900 ○
- 227 Influence of Hafnium Addition on the Microstructure, Microhardness and Corrosion Resistance of Ti₂₀Ta₂₀Nb₂₀(ZrMo)₂₀Hf_x (where x = 0, 5, 10, 15 and 20 at.%) High Entropy Alloys. **2023**, 16, 1456 ○
- 226 Effect of the Synthesis Route on the Microstructure of Hf_xTi_(1-x)NbVZr Refractory High-Entropy Alloys. **2023**, 13, 343 ○
- 225 Interfacial microstructure and strengthening mechanism of dissimilar laser al/steel joint via a porous high entropy alloy coating. **2023**, 23, 3997-4011 ○
- 224 High-Entropy Materials Design by Integrating the First-Principles Calculations and Machine Learning: a Case Study in the Al-Co-Cr-Fe-Ni System. ○

- 223 Compositionally Complex Alloys: Some Insights from Photoemission Spectroscopy. **2023**, 16, 1486 ○
- 222 Microstructure and Properties of an FeCoCrAlCu HEA Coating Synthesized via the Induction Remelting Method. **2023**, 13, 399 ○
- 221 Dielectric and ferroelectric characteristics of Ba(Ti_{0.25}Zr_{0.25}Hf_{0.25}Sn_{0.25})O₃ high-entropy ceramics. **2023**, ○
- 220 High ductility CrCoNi medium entropy alloy prepared by liquid nitrogen temperature rolling and short time annealing at moderate temperature. **2023**, 23, 3987-3996 ○
- 219 Pt-induced atomic-level tailoring towards paracrystalline high-entropy alloy. **2023**, 14, ○
- 218 Microstructure and mechanical properties of FeCoCrNiAl_{0.1}N high entropy alloy nitride coatings synthesized by cathodic arc ion plating using alloy target. **2023**, 457, 129305 ○
- 217 Restoration and modification of products with high-entropy alloy CoCrFeNiMnW_{0.25}; using additive technologies. **2023**, 23-34 ○
- 216 Corrosion Behavior of High Entropy Alloys and Their Application in the Nuclear IndustryAn Overview. **2023**, 13, 363 ○
- 215 A new type of gradient structure FeCoCrNiWMo high entropy alloy layer by plasma solid-state surface metallurgy. **2023**, 457, 129320 ○
- 214 Spinodal decomposition and the pseudo-binary decomposition in high-entropy alloys. **2023**, 248, 118775 ○
- 213 Influence of Al Addition on the Microstructure and Wear Behavior of Laser Cladding FeCoCrNiAl_x High-Entropy Alloy Coatings. **2023**, 13, 426 1
- 212 Hydrogen Storage Performance of C14 Type Ti_{0.24}V_{0.17}Zr_{0.17}Mn_{0.17}Co_{0.17}Fe_{0.08} High Entropy Intermetallics. ○
- 211 Comparative study of microstructure and mechanical properties of thermo-mechanically processed Al(0.2, 0.5) CoCrFeNiMo_{0.5} high-entropy alloys. **2023**, 103, ○
- 210 Tailoring microstructure of Ni₂CoFe medium-entropy alloy to achieve optimal comprehensive mechanical properties. **2023**, 23, 4258-4267 ○
- 209 Material Development of High-Entropy-Alloy-Type Superconductors and Investigation of Physical Properties under High Pressure. **2022**, 32, 71-76 ○
- 208 First-principles study for discovery of novel synthesizable 2D high-entropy transition metal carbides (MXenes). **2023**, 11, 5681-5695 ○
- 207 Grain Refinement in High-Entropy Alloys by High-Pressure Torsion Deformation. **2022**, 32, 64-70 ○
- 206 Conformal Noble Metal High-Entropy Alloy Nanofilms by Atomic Layer Deposition for an Enhanced Hydrogen Evolution Reaction. **2023**, 39, 3142-3150 ○

- 205 Effect of Y₂O₃ on microstructure and properties of CoCrFeNiTiNb high entropy alloy coating on Ti6Al4V surface by laser cladding. **2023**, ○
- 204 Understanding the microstructure evolution characteristics and mechanical properties of an AlCoCrFeNi_{2.1} high entropy alloy fabricated by laser energy deposition. **2023**, 869, 144795 ○
- 203 Experimental observation of mesoscopic fluctuations to identify origin of thermodynamic anomalies of ambient liquid water. **2023**, 5, ○
- 202 Origin of enhanced passivity of CrBeCoNiMo multi-principal element alloy surfaces. **2023**, 7, ○
- 201 A new lightweight Al_{2.7}TiVCrCu high entropy alloy with excellent strength and toughness after homogenization treatment. **2023**, 869, 144779 ○
- 200 Introduction to High-Entropy Materials. **2023**, 1-15 ○
- 199 Local structure and magnetic properties of a nanocrystalline Mn-rich Cantor alloy thin film down to the atomic scale. ○
- 198 Synthesis and Processing of High-Entropy Materials. **2023**, 91-139 ○
- 197 Dynamic recrystallization behavior of single-phase BCC structure AlFeCoNiMo_{0.2} high-entropy alloy. **2023**, 23, 4376-4384 ○
- 196 Microstructural design and deformation behavior of a TRIP/TWIP tri-phase heterogeneous high-entropy alloy. **2023**, 156, 107854 ○
- 195 Structural Features and Thermodynamics of High-Entropy Materials. **2023**, 17-47 ○
- 194 Characterization of High-Entropy Materials. **2023**, 141-159 ○
- 193 A High-Entropy B2 Heusler Alloy. ○
- 192 Detection and impact of short-range order in medium/high-entropy alloys. **2023**, 26, 106209 ○
- 191 Influence of Grain Size on Mechanical Properties of a Refractory High Entropy Alloy under Uniaxial Tension. **2023**, 13, 357 ○
- 190 (Magneto)Transport Properties of (TiZrNbNi)_{1-x}Cu_x and (TiZrNbCu)_{1-x}Cu_x Complex Amorphous Alloys. **2023**, 16, 1711 ○
- 189 Effect of V on microstructure, wear and corrosion properties in AlCoCrMoV high entropy alloy coatings by laser cladding. **2023**, 23, 4420-4431 ○
- 188 Unveiling heterogeneous microstructure and good combinations of high yield strength and low coercivity of in-situ formed NbC/FeNiCo medium-entropy composites. **2023**, 419, 118365 ○

- 187 Point defect properties in high entropy MAX phases from first-principles calculations. **2023**, 248, 118783 ○
- 186 Functional two-dimensional high-entropy materials. **2023**, 4, ○
- 185 Editorial: High entropy alloy design concept enabled emerging novel materials with enhanced mechanical properties. 10, ○
- 184 Comprehensive analysis on the effect of ionic size and size disorder parameter in high entropy stabilized ferromagnetic manganite perovskite. **2023**, 7, ○
- 183 Corrosion of plasma sputtering medium entropy alloy thin film: A multidisciplinary perspective. **2023**, 216, 111020 ○
- 182 Microstructure and corrosion properties of CoCrCuFeMnNi x high-entropy alloys prepared by powder metallurgy. ○
- 181 High Entropy Oxides. **2023**, 536-545 ○
- 180 Interdiffusion in refractory metal systems with a BCC lattice: titanium-tantalum and titanium-multicomponent (high-entropy) alloy. **2023**, 1, 75-83 ○
- 179 Viewing high entropy alloys through glasses: Linkages between solid solution and glass phases in multicomponent alloys. **2023**, 7, ○
- 178 Mechanical and Corrosion Behavior of Zr-Doped High-Entropy Alloy from CoCrFeMoNi System. **2023**, 16, 1832 ○
- 177 A FRESH PERSPECTIVE ON MEDIUM ENTROPY ALLOYS APPLICATIONS AS COATING AND COATING SUBSTRATE. **2022**, 7, 34-46 ○
- 176 The Design and Characterization of New Chitosan, Bioglass and ZnO-Based Coatings on Ti-Zr-Ta-Ag. **2023**, 13, 493 ○
- 175 A physically-based constitutive model for the prediction of yield strength in the precipitate-hardened high-entropy alloys. **2023**, 39, ○
- 174 Lightweight, ultrastrong and high thermal-stable eutectic high-entropy alloys for elevated-temperature applications. **2023**, 248, 118806 ○
- 173 Smooth Thin Film of a CoNiCu Medium-Entropy Alloy Consisting of Single Nanometer-Sized Grains Formed by Electrodeposition in a Water-in-Oil Emulsion. **2023**, 127, 4696-4703 ○
- 172 Precipitate-mediated metastability of a hetero-structured ferrous high-entropy alloy with superior strain hardening ability. **2023**, 870, 144853 ○
- 171 Effect of initial powder particle size on densification behavior and mechanical properties of laser additive manufacturing of AlCoCrFeNi_{2.1} eutectic high-entropy alloy. **2023**, 420, 118379 ○
- 170 A high-strength precipitation hardened cobalt-free high-entropy alloy. **2023**, 870, 144848 ○

- 169 Superior resistance to high-temperature creep in an additively manufactured precipitation-hardened CrMnFeCoNi high-entropy alloy nanocomposite. **2023**, 227, 111761 ○
- 168 Mechanical properties and non-isothermal crystallization kinetics of novel Ti-based high-entropy bulk metallic glasses. **2023**, 23, 5939-5952 ○
- 167 A comparative study of deuterium permeation behaviors of CoCrMnFeNi and AlCoCrFeNi high entropy alloys. **2023**, ○
- 166 High Temperature Deformation Behavior and Processing Maps of FeCoNiCrAlTi Dual Phase High Entropy Alloy. ○
- 165 Research status of tribological properties optimization of high-entropy alloys: a review. **2023**, 58, 4257-4291 1
- 164 Studies on high-temperature stability and strengthening mechanisms of high/medium-entropy alloys for potential nuclear applications: The case of FeCrV-based alloys. **2023**, 870, 144858 ○
- 163 High-Entropy Perovskites for Energy Conversion and Storage: Design, Synthesis, and Potential Applications. **2023**, 7, ○
- 162 Growth of REBa₂Cu₃O_x single-crystal whiskers utilizing the concept of high-entropy alloys. **2023**, 62, 033001 ○
- 161 Manufacturing of TiNbCrVNi high entropy alloy using directed energy deposition and evaluation of materials properties. **2023**, 23, 5606-5617 ○
- 160 A molecular dynamics study of atomic diffusion effects on thermomechanical properties applying laser additive alloying process for the Cantor high entropy alloy. **2023**, 91, 149-166 ○
- 159 Microstructure and Nanoindentation Behavior of FeCoNiAlTi High-Entropy Alloy-Reinforced 316L Stainless Steel Composite Fabricated by Selective Laser Melting. **2023**, 16, 2022 ○
- 158 Water uptake and energetics of the formation of barium zirconate based multicomponent oxides. **2023**, 25, 9208-9215 ○
- 157 The emergence of considerable room temperature magnetocaloric performances in the transition metal high-entropy alloys. **2023**, 32, 101031 ○
- 156 Cold Spray Coatings of Complex Concentrated Alloys: Critical Assessment of Milestones, Challenges, and Opportunities. **2023**, 13, 538 1
- 155 A review on the rational design and fabrication of nanosized high-entropy materials. ○
- 154 Plasmanitrierungseigenschaften von Sinterkörpern hergestellt aus dem Pulver einer hochentropischen CoCrFeMnNi-Legierung bei unterschiedlicher Dauer des Kugelfrörens. **2023**, 168, 130-136 ○
- 153 Investigation of structure and properties of melt-spun NiTi based shape memory alloys. **2022**, 60, 1023-1031 ○
- 152 Divergent interfacial behaviors of homo-/hetero-phase boundaries in a dual-phase eutectic high-entropy alloy. ○

- 151 Advances in Friction, Lubrication, Wear and Oxidation in Metals Manufacturing. **2023**, 13, 505 ○
- 150 New class of high-entropy rare-earth niobates with high thermal expansion and oxygen insulation. ○
- 149 Structure of High-Entropy Solders and Soldered Seams Based on Transition d -Metals. **2023**, 45, 75-93 ○
- 148 Achieving superb strength in single-phase FCC alloys via maximizing volume misfit. **2023**, 63, 108-119 1
- 147 Alloying, phases and magnetic behaviour of mechanically alloyed FeNiMnCu-based high entropy alloys. 1-15 ○
- 146 High-Entropy Alloy Coatings: State and Prospects. **2022**, 52, 899-906 ○
- 145 Evolution of microstructure and properties of TiNbCrAlHfN films grown by unipolar and bipolar high-power impulse magnetron co-sputtering: The role of growth temperature and ion bombardment. **2023**, 459, 129389 ○
- 144 Microstructure and Mechanical Properties of Homogenized Al_xCrNbTiV ($x=0.2,0.5,0.8$) Refractory High Entropy Alloy. **2023**, 4, 77-79 ○
- 143 Near-Threshold Fatigue Crack Propagation in Sintered 304L Stainless Steel Compact with Network Structure Composed of High-Entropy CrMnFeCoNi Alloy. ○
- 142 Understanding the Role of Entropy in High Entropy Oxides. **2023**, 145, 5991-6006 ○
- 141 Optimal design of σ -strengthened high-entropy alloys via machine learning multilayer structural model. **2023**, 871, 144852 ○
- 140 Influence of Laser Direct Energy Deposition Process Parameters on the Structure and Phase Composition of a High-Entropy Alloy FeCoNiCrMn. **2023**, 13, 534 ○
- 139 Phase formation capability and compositional design of β -phase multiple rare-earth principal component disilicates. **2023**, 14, ○
- 138 Effect of ultrasonic impact treatment on the properties of CoCrFeNiCu high-entropy alloy coatings on steel by induction cladding. **2023**, 459, 129390 ○
- 137 High strength and high ductility of a severely deformed high-entropy alloy in the presence of hydrogen. **2023**, 216, 111097 ○
- 136 Microstructure Evolution and Wear Resistance of the Eutectic High-Entropy Alloy Al_{0.3}CoCrFeNiNb_{0.5} Produced by Laser Metal Deposition. **2023**, 13, 585 ○
- 135 Chemical Insights into the Formation of Colloidal High Entropy Alloy Nanoparticles. **2023**, 17, 5943-5955 ○
- 134 Geometrical parameter (?) design approach of single phase high-entropy alloy for turbine blades. ○

- 133 Effects of Heat Treatment on the Interface Microstructure and Mechanical Properties of Friction-Stir-Processed AlCoCrFeNi/A356 Composites. **2023**, 16, 2234 ○
- 132 The Formation and Phase Stability of A-Site High-Entropy Perovskite Oxides. **2023**, 16, 2214 ○
- 131 Radar Infrared-Compatible Camouflage Performance of High-Entropy Alloy Coating Enhanced by Double-Layer Hexagonal Metasurface. 2201861 ○
- 130 From high-entropy alloys to high-entropy ceramics: The radiation-resistant highly concentrated refractory carbide (CrNbTaTiW)₂C. **2023**, 250, 118856 ○
- 129 Synergistic effect of alloying on thermoelectric properties of two-dimensional PdPQ (Q = S, Se). **2023**, 25, 9617-9625 ○
- 128 Synthesis and Characterization of High-Entropy Dawsonite-Type Structures. **2023**, 62, 4999-5007 ○
- 127 Interdiffusion in Refractory Metal System with a BCC Lattice: Ti/TiZrHfNbTaMo. **2023**, 25, 490 ○
- 126 Preparation of medium-entropy alloy coating using GMAW cladding with MoFe₃TiNiCu cable-type welding wire. 1-8 ○
- 125 Estimation of Shear Modulus and Hardness of High-Entropy Alloys Made from Early Transition Metals Based on Bonding Parameters. **2023**, 16, 2311 ○
- 124 High-Entropy Alloy Coatings Deposited by Thermal Spraying: A Review of Strengthening Mechanisms, Performance Assessments and Perspectives on Future Applications. **2023**, 13, 579 ○
- 123 Microstructure and Wear Behavior of Al_{0.25}CoCrFeNiSi_{0.6} High-Entropy Alloy Coating Deposited on Stainless Steel by Detonation Spraying. ○
- 122 Synthesis and corrosion behavior of Mo₁₅Nb₂₀Ta₁₀Ti₃₅V₂₀ refractory high entropy alloy. **2023**, 228, 111820 ○
- 121 Microstructure and properties of a novel cost-effective FeNi-based eutectic high entropy alloys. **2023**, 870, 144919 ○
- 120 Achieving high energy storage performance below 200 kV/cm in BaTiO₃-based medium-entropy ceramics. **2023**, ○
- 119 Prediction of phase selection of amorphous alloys and high entropy alloys by artificial neural network. **2023**, 223, 112129 ○
- 118 Nanostructuring of Multi-Principal Element Alloys by Severe Plastic Deformation: from Fundamentals to an Improved Functionality. **2023**, ○
- 117 High-Strength Ductility Joining of Multicomponent Alloy to 304 Stainless Steel Using Laser Welding Technique. **2023**, 16, 2374 ○
- 116 Microstructure and tensile strength of electrodeposited Fe-rich bcc FeCoNi medium-entropy alloys. 1-7 ○

- 115 Formation of products upon ignition, combustion and melting of mixtures of high-entropy alloy FeNiCoCrCu with titanium and carbon. **2023**, 28-38 ○
- 114 An ultra-high-entropy rare earth orthoferrite (UHE REO): solution combustion synthesis, structural features and ferrimagnetic behavior. **2023**, 52, 4779-4786 ○
- 113 Laser shock peening strengthens additively manufactured high-entropy alloy through novel surface grain rotation. **2023**, 871, 144886 ○
- 112 Combinatorial development of antibacterial FeCoCr-Ag medium entropy alloy. **2023**, 2, 025002 ○
- 111 Effect of HSO₃ and alternating current on corrosion behaviour and mechanism of CoCrFeNi HEA in a simulated marine environment. 1-13 ○
- 110 Evaluation of Equiatomic CrMnFeCoNiCu System and Subsequent Derivation of a Non-Equiatomic MnFeCoNiCu Alloy. **2023**, 16, 2455 ○
- 109 High-Entropy Alloy Films. **2023**, 13, 635 ○
- 108 Tailoring the electrocatalytic activity of multicomponent (Co,Fe,Ni)₉S₈Sex pentlandite solid electrodes. **2023**, 11, 7526-7538 ○
- 107 Tribological behaviors of FeCoNiCrAl sliding against Si₃N₄ ceramics under high temperature condition. **2023**, ○
- 106 Mechanism of sluggish diffusion under rough energy landscape. **2023**, 4, 101337 ○
- 105 High entropy strategy on thermoelectric materials. 2, ○
- 104 Improving machine learning based phase and hardness prediction of high-entropy alloys by using Gaussian noise augmented data. **2023**, 223, 112140 1
- 103 Current status of hard coating research. **2023**, 10, 68-71 ○
- 102 Deformation-induced homogenization of the multi-phase senary high-entropy alloy MoNbTaTiVZr processed by high-pressure torsion. **2023**, 871, 144923 ○
- 101 Effect of Segregation on Deformation Behaviour of Nanoscale CoCrCuFeNi High-Entropy Alloy. **2023**, 13, 4013 1
- 100 The Surface Properties of Implant Materials by Deposition of High-Entropy Alloys (HEAs). **2023**, 13, 1123 ○
- 99 Local structural features of medium-entropy garnet with ultra-long cycle life. **2023**, ○
- 98 The effects of grain size and temperature on mechanical properties of CoCrNi medium-entropy alloy. **2023**, 29, ○

- 97 A Low-Temperature Synthetic Route Toward a High-Entropy 2D Hexernary Transition Metal Dichalcogenide for Hydrogen Evolution Electrocatalysis. 2204488 ○
- 96 Oxidation Behavior of CoCrFeMnNi High-Entropy Alloy Fabricated by Selective Laser Melting. ○
- 95 Influences of alloying elements on microstructure and tribological properties of a medium-weight high-entropy alloy. **2023**, 204856 ○
- 94 Shape Memory Effect and Superelasticity of [001]-Oriented (TiZrHf)₅₀Ni₂₅Co₁₀Cu₁₅ High-Entropy Alloy Crystals Under Compression. **2023**, 65, 2137-2146 ○
- 93 Multielement Nitride Coatings of Quasi-Equiatomic Compositions Synthetized by the Ion-Plasma Method. ○
- 92 Structure and Properties of a High-Entropy Alloy Saturated With Boron by the Additive Method. **2023**, 65, 1848-1854 ○
- 91 Short-range ordering alters the dislocation nucleation and propagation in refractory high-entropy alloys. **2023**, ○
- 90 Investigation of Mechanical Properties and Wear Resistance of A2/B2 Type Medium-Entropy Alloy Matrix Reinforced with Tungsten Particles by In-Situ Reaction. **2023**, 13, 656 ○
- 89 Magnetic Field-Dependent Microstructure Evolution of Solidified Co_{39.2}Ni_{39.2}Al_{21.6} Eutectic Medium-Entropy Alloy. **2023**, 13, 573 ○
- 88 Effects of Welding Speeds on Microstructures and Properties of a CoCrNiSi_{0.2} Medium Entropy Alloy in Electron Beam Weld Joints. **2023**, 2459, 012017 ○
- 87 In situ reaction synthesis, microstructure and thermomechanical properties of novel medium-entropy (Ti,V,Nb,Ta)₂AlC ceramics. **2023**, ○
- 86 Effect of heat treatment on mechanical and corrosion properties of an Al_{0.8}CrFe₂Ni₂ alloy processed by laser powder bed fusion. **2023**, 953, 169816 ○
- 85 A Novel Approach to Produce Single-Phase High-Entropy Alloys. ○
- 84 Effect of milling time variation on TiTaVWCr HEA powder as nuclear material on microstructure and mechanical properties by a mechanical alloying method. **2023**, 1151, 012052 ○
- 83 Effect of WC Content on Microstructure and Properties of CoCrFeNi HEA Composite Coating on 316L Surface via Laser Cladding. **2023**, 16, 2706 ○
- 82 Microstructure and Mechanical Properties of FeCoNiCrAl High-entropy Alloys by Selective Laser Melting. **2023**, 2, 100069 ○
- 81 Nanoscale fluctuation of stacking fault energy strengthens multi-principal element alloys. **2023**, 158, 218-225 ○
- 80 Synergic Combination of Strength and Ductility through Both Grain Refinement and Precipitation in Al 0.3 CoCrNi Medium-Entropy Alloy. ○

- 79 Effect of Cold Rolling on the Microstructure Evolution, Mechanical, and Corrosion Properties of AlCoCrFeNi_{2.4} High-Entropy Alloy. ○
- 78 An investigation on the wear and subsurface deformation mechanism of CoCrFeMnNi high entropy alloy at subzero temperature. **2023**, 204868 ○
- 77 Influence of short-range order on diffusion in multiprincipal element alloys from long-time atomistic simulations. **2023**, 7, ○
- 76 Simulating short-range order in compositionally complex materials. **2023**, 3, 221-229 ○
- 75 Fast fabrication of SnTe via a non-equilibrium method and enhanced thermoelectric properties by medium-entropy engineering. ○
- 74 Accelerating the design of compositionally complex materials via physics-informed artificial intelligence. **2023**, 3, 198-209 ○
- 73 Disorder-order transition in multiprincipal element alloy: A free energy perspective. **2023**, 7, ○
- 72 Defect modeling and control in structurally and compositionally complex materials. **2023**, 3, 210-220 ○
- 71 Eutectic MoNbTa(WC)_x Composites with Excellent Elevated Temperature Strength. **2023**, 13, 687 ○
- 70 Twin-induced transformation strengthening of CoCrNi-based medium-entropy alloy with a gradient nanostructure. **2023**, 24, 3969-3976 ○
- 69 Data-driven optimization of hardness and toughness of high-entropy nitride coatings. **2023**, ○
- 68 Ab initio study of tungsten-based alloys under fusion power-plant conditions. **2023**, 581, 154422 ○
- 67 Room and Elevated Temperature Sliding Friction and Wear Behavior of Al_{0.3}CoFeCrNi and Al_{0.3}CuFeCrNi₂ High Entropy Alloys. **2023**, 13, 609 ○
- 66 Microstructure-Property Correlation and Its Evolution during Aging in an Al_{4.4}Co₂₆Cr₁₉Fe₁₈Ni₂₇Ti_{5.6} High-Entropy Alloy. **2023**, 16, 2821 ○
- 65 Comparison on structural and magnetic properties of FeCoNi medium entropy alloy, FeCoNiAl and FeCoNiAlTi high entropy alloys. ○
- 64 Investigation of the Interfacial Reactions between the CoCuFeNi High Entropy Alloy and Sn Solder. **2023**, 13, 710 ○
- 63 Effects of Chloride Ions on Passive Oxide Films Formed on Cr-Fe-Co-Ni(-Mo) Multi-Principal Element Alloy Surfaces. **2023**, 170, 041506 ○
- 62 OVERVIEW OF THE HIGH-ENTROPY ALLOYS CONCEPT. **2023**, 25-39 ○

- 61 Influence of Si and Mn on the Phase Formation, Crystallization Kinetics, and Enhanced Magnetic Properties of Mechanically Alloyed NiCoFe(SiMn)_x High Entropy Amorphous Alloys. ○
- 60 Unique Duplex Microstructure and Porosity Effect on Mechanical Properties of AlCoCrFeNi_{2.1} Eutectic High-Entropy Alloys Processed by Selective Laser Melting. ○
- 59 Carbon-driven coherent nanoprecipitates enable ultrahigh yield strength in a high-entropy alloy. **2023**, 100331 ○
- 58 Nanostructure-property relation of β grain boundary in HfNbZrTi high-entropy alloy under shear. **2023**, 58, 6757-6774 ○
- 57 Discovery of new Fe₂Ni₂CrAl_x multi-principal element alloys with promising mechanical properties. **2023**, 24, 3996-4008 ○
- 56 Microstructural evolution and tensile property of gradient microstructure CoCrFeMnNi high-entropy alloy induced by pre-torsion. **2023**, 170053 ○
- 55 Experimental research on grinding chip morphology and grinding surface quality of FeCoNiCrX_{0.1}(X = Mo, Al) high entropy alloys. **2023**, 45, ○
- 54 Tailoring planar slip to achieve pure metal-like ductility in body-centred-cubic multi-principal element alloys. ○
- 53 A TiC reinforced Co-free Fe₅₀Mn₂₅Ni₁₀Cr₁₅ medium-entropy alloy with multiple strengthening mechanisms. **2023**, 343, 134375 ○
- 52 Effect of heat treatment time on the microstructure and properties of FeCoNiCuTi high-entropy alloy. **2023**, 24, 4510-4516 ○
- 51 Fluence- and thickness-dependent microstructure evolutions in Ti-Zr-Hf-Nb-Ta high entropy alloy thin films. **2023**, 953, 170069 ○
- 50 High speed nanoindentation aided correlative study between local mechanical properties and chemical segregation in equiatomic MoNb and MoNbTi alloys. ○
- 49 A neural network model for high entropy alloy design. **2023**, 9, ○
- 48 Strength-ductility balance optimization of Fe₂NiCr_{0.5}Cu_{0.2}Al_{0.3}Ti_{0.1} multicomponent alloy via doping trace amounts of boron. ○
- 47 Experimental and simulation study of microstructure and magnetic properties of (AlFeMnNi)_{1-x}Ndx. 1-14 ○
- 46 Au-based heterostructure composites for photo and electro catalytic energy conversions. **2023**, 36, e00609 ○
- 45 Research on the Shear Angle Theory Based on the Internal Friction in High-Speed Cutting of High-Entropy Alloy FeCoNiCrAl. ○
- 44 Co-Cr-Fe-Mn-Ni Oxide as a Highly Efficient Thermoelectric High-Entropy Alloy. ○

- 43 Effect of local chemical environment on the point defects in AlNbTiZr refractory high entropy alloys. **2023**, 154451 ○
- 42 Enhanced strength-ductility synergy in NbC-reinforced FeMnCoCr high entropy alloy with heterostructure by adopting a novel process. **2023**, 953, 170141 ○
- 41 The effect of WC on the microstructure and mechanical properties of FeCoNiCuAl high entropy alloy applied by laser cladding method. **2023**, 112102 ○
- 40 The effect of spin-polarization, atomic ordering and charge transfer on the stability of CoCrNi medium entropy alloy. **2023**, 127783 ○
- 39 Precipitation growth of ϵ phase along the interface in CoCrFeMnNi high-entropy alloy. **2023**, 112103 ○
- 38 Lattice distortion in FCC HEAs and its effect on mechanical properties: Critical analysis and way forward. **2023**, 133, 155102 ○
- 37 Characterisation and property evaluation of High Entropy Alloy coating on 316L steel via thermal spray synthesis. **2023**, 185, 108525 ○
- 36 BCC/B2 structure and dislocation strengthening behavior in high Ti content TiAlVCrNb high-entropy alloys. **2023**, 170179 ○
- 35 Mechanical Alloying Behavior and Thermal Stability of CoCrCuFeMnNi_x High-Entropy Alloy Powders Prepared via MA. **2023**, 16, 3179 ○
- 34 Microstructure and Properties of FeCoNi_{1.5}CrCu_p/Al High-Entropy Alloy Strengthened Aluminum Matrix Composites and Finite Element Simulation. **2023**, 106022 ○
- 33 Hydrogen Embrittlement of CrCoNi Medium-Entropy Alloy with Millimeter-Scale Grain Size: An In Situ Hydrogen Charging Study. **2023**, 25, 673 ○
- 32 Oxidation behavior of Al₁₅Fe₂₀Co₂₀Ni₂₀Cr_{25-x}Nb_x high-entropy alloys at elevated temperatures. **2023**, 112092 ○
- 31 Machine-Learning-Guided Phase Identification and Hardness Prediction of Al-Co-Cr-Fe-Mn-Nb-Ni-V Containing High Entropy Alloys. **2023**, 170193 ○
- 30 Effect of yttrium on phase composition and microstructure of FeCoNiAlCrB high entropy alloys. **2023**, 873, 145058 ○
- 29 Effect of Al and Ti additions on the high cycle fatigue behavior of CoCrNi-based medium-entropy alloys at room and high temperatures. ○
- 28 On correlations between local chemistry, distortions and kinetics in high entropy nitrides: An ab initio study. **2023**, 118951 ○
- 27 Supersaturation and dissolvable ϵ Cr phase enable superior oxidation resistance in FeCrNi medium-entropy alloys. **2023**, 954, 170216 ○
- 26 Universal Maximum Strength of Solid Metals and Alloys. **2023**, 130, ○

- 25 The effect of grain boundary on irradiation resistance of CoCrCuFeNi high entropy alloy. **2023**, 225, 112185 ○
- 24 Compositional effects on dislocation properties in NiCo and NiFe alloys using atomistic simulations. **2023**, 225, 112191 ○
- 23 Mechanical properties and corrosion resistance of AlxCoCuFeMn high-entropy alloys. **2023**, ○
- 22 Effect of Homogenization on the Transformation Temperatures and Mechanical Properties of Cu15Ni35Hf12.5Ti25Zr12.5 and Cu15Ni35Hf15Ti20Zr15 High-Entropy Shape Memory Alloys. **2023**, 16, 3212 ○
- 21 The effect of critical coupling constants on superconductivity enhancement. **2023**, 13, ○
- 20 Intermediate-temperature creep behaviors of an equiatomic VNbMoTaW refractory high-entropy alloy. **2023**, ○
- 19 High-entropy oxides for energy storage and catalysis. **2023**, 209-236 ○
- 18 High-temperature oxidation and tribological behaviors of WTaVCr alloy coating prepared by double glow plasma surface alloying technology. **2023**, 464, 129429 ○
- 17 Two-Dimensional MXenes Derived from Medium/High-Entropy MAX Phases M₂GaC (M = Ti/V/Nb/Ta/Mo) and their Electrochemical Performance. ○
- 16 Effect of Manufacturing Conditions and Al Addition on Inclusion Characteristics in Co-Based Dual-Phase High Entropy Alloy. ○
- 15 Microstructure, mechanical properties, electrical resistivity, and corrosion behavior of (AlCr)_x(HfMoNbZr)_{1-x} films. **2023**, 629, 157368 ○
- 14 Exploring the Hydrogen Sorption Capabilities of a Novel Ti-V-Mn-Zr-Nb High-Entropy Alloy. **2023**, 11, 186 ○
- 13 Recent progress in high-entropy metallic glasses. **2023**, 161, 50-62 ○
- 12 Effect of Heat Treatment on the Corrosion Resistance of AlFeCoNiMo_{0.2} High-Entropy Alloy in NaCl and H₂SO₄ Solutions. **2023**, 13, 849 ○
- 11 Realizing high strength and toughness of gradient high-entropy alloy coating by in-situ interface reaction of FeCoCrNi/FeCoCrAl. **2023**, 464, 129569 ○
- 10 Origins of strengthening and toughening effects in twinned nanocrystalline alloys of low stacking fault energy with heterogeneous grain structure. **2023**, 176, 105305 ○
- 9 Data-driven discovery of a formation prediction rule on high-entropy ceramics. **2023**, 253, 118955 ○
- 8 An investigation of the magnetic, mechanical, and kinetic characteristics of CuCrFeTiNi high entropy alloy by mechanical alloying and spark plasma sintering. **2023**, 958, 170347 ○

- 7 Effect of Fe content on structure and mechanical properties of a medium: Entropy $\text{Fe}_x(\text{CoNi})_{100-x}\text{Cr}_9.5\text{C}_0.5$ ($x=60$ and 65) alloys after cold rolling and annealing. **2023**, 959, 170469 ○
- 6 The Effects of WC on the Microstructures and Wear Resistance of FeCoCrNiB0.2 High Entropy Alloy. **2023**, 38, 416-422 ○
- 5 Novel High-Entropy Oxides for Energy Storage and Conversion: From Fundamentals to Practical Applications. **2023**, ○
- 4 Influences of Milling Time and NbC on Microstructure of AlCoCrFeNi2.1 High Entropy Alloy by Mechanical Alloying. **2023**, 38, 423-429 ○
- 3 Investigation of thermal and mechanical effects during electrically-assisted compression of CoCrFeNiW0.5 high entropy alloy. **2023**, 202, 112981 ○
- 2 High entropy alloy thin films on SS304 substrates: Evolution of microstructure and interface modulated by energetic condensation in nanoscale. **2023**, 230, 111981 ○
- 1 Developing a variable charge potential for Hf/Nb/Ta/Ti/Zr/O system via machine learning global optimization. **2023**, 230, 111999 ○