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## Microstructures and properties of high-entropy alloys

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| 1536 | Synthesis and microstructure of the (Co,Cr,Fe,Mn,Ni) <sub>3 O 4</sub> high entropy oxide characterized by spinel structure. <b>2018</b> , 216, 32-36   | 219 |
| 1535 | Twinning in [001]-oriented single crystals of CoCrFeMnNi high-entropy alloy at tensile deformation. <b>2018</b> , 713, 253-259   | 22  |
| 1534 | High-pressure high-temperature tailoring of High Entropy Alloys for extreme environments. <b>2018</b> , 738, 491-500   | 24  |

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| 1532 | A new strategy to design eutectic high-entropy alloys using simple mixture method. <b>2018</b> , 142, 101-105  | 95  |
| 1531 | Optimization of mechanical and tribological properties of FCC CrCoNi multi-principal element alloy with Mo addition. <b>2018</b> , 149, 324-330  | 33  |
| 1530 | Bulk tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <b>2018</b> , 146, 211-224   | 186 |
| 1529 | Effects of Ni-P amorphous films on mechanical and corrosion properties of Al <sub>0.3</sub> CoCrFeNi high-entropy alloys. <b>2018</b> , 94, 65-72  | 18  |
| 1528 | Ultrastable metal oxide nanotube arrays achieved by entropy-stabilization engineering. <b>2018</b> , 146, 340-343  | 22  |
| 1527 | In-situ electrochemical-AFM study of localized corrosion of Al <sub>x</sub> CoCrFeNi high-entropy alloys in chloride solution. <b>2018</b> , 439, 533-544  | 76  |
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| 1520 | Processing of a new high entropy alloy: AlCrFeMoNiTi. <b>2018</b> , 61, 258-265  | 3   |
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| 1517 | Structure and mechanical properties of FeAlCrV and FeAlCrMo medium-entropy alloys. <b>2018</b> , 727, 184-191  | 7   |
| 1516 | Machine learning for phase selection in multi-principal element alloys. <b>2018</b> , 150, 230-235   | 94  |

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| 1515 | Temperature dependent deformation mechanisms of Al <sub>0.3</sub> CoCrFeNi high-entropy alloy, starting from serrated flow behavior. <b>2018</b> , 757, 39-43  | 19  |
| 1514 | Role of brittle sigma phase in cryogenic-temperature-strength improvement of non-equi-atomic Fe-rich VCrMnFeCoNi high entropy alloys. <b>2018</b> , 724, 403-410   | 33  |
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| 1505 | Comparative study of hydrogen embrittlement in stable and metastable high-entropy alloys. <b>2018</b> , 150, 74-77   | 58  |
| 1504 | Microstructure and properties of in-situ TiN reinforced laser cladding CoCr <sub>2</sub> FeNiTi high-entropy alloy composite coatings. <b>2018</b> , 344, 353-358  | 60  |
| 1503 | Effect of cold working and annealing on microstructure and properties of powder metallurgy high entropy alloy. <b>2018</b> , 61, 197-203   | 4   |
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| 1501 | Phase stability and mechanical properties of AlHfNbTiZr high-entropy alloys. <b>2018</b> , 724, 249-259  | 36  |
| 1500 | The Role of Carbon in Grain Refinement of Cast CrFeCoNi High-Entropy Alloys. <b>2018</b> , 49, 2151-2160   | 33  |
| 1499 | Hydrogen embrittlement of an interstitial equimolar high-entropy alloy. <b>2018</b> , 136, 403-408   | 66  |
| 1498 | Laser beam welding of a CoCrFeNiMn-type high entropy alloy produced by self-propagating high-temperature synthesis. <b>2018</b> , 96, 63-71  | 59  |

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| 1497 | Amorphous microwires of high entropy alloys with large magnetocaloric effect. <b>2018</b> , 96, 79-83   | 28 |
| 1496 | Distinct spin glass behavior and excellent magnetocaloric effect in Er <sub>20</sub> Dy <sub>20</sub> Co <sub>20</sub> Al <sub>20</sub> RE <sub>20</sub> (RE = Gd, Tb and Tm) high-entropy bulk metallic glasses. <b>2018</b> , 96, 90-93 | 31 |
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| 1494 | Structural transformations in (CoFeNi)/Ti nanocomposite systems during prolonged heating. <b>2018</b> , 745, 44-54  | 4  |
| 1493 | Influence of deformation and annealing twinning on the microstructure and texture evolution of face-centered cubic high-entropy alloys. <b>2018</b> , 150, 88-103   | 82 |
| 1492 | Studies on the microstructure and properties of Al <sub>x</sub> CoCrFeNiTi <sub>1-x</sub> high entropy alloys. <b>2018</b> , 741, 826-833   | 45 |
| 1491 | Formation and properties of Fe <sub>25</sub> Co <sub>25</sub> Ni <sub>25</sub> (P, C, B, Si) <sub>25</sub> high-entropy bulk metallic glasses. <b>2018</b> , 487, 60-64   | 21 |
| 1490 | Effect of Ultrasonic Melt-Treatment and Cooling Rate on Microstructure of Multi-phase Reinforced Al Alloy. <b>2018</b> , 907-911  |    |
| 1489 | Influence of compositional complexity on interdiffusion in Ni-containing concentrated solid-solution alloys. <b>2018</b> , 6, 293-299   | 36 |
| 1488 | Size dependent plasticity and damage response in multiphase body centered cubic high entropy alloys. <b>2018</b> , 150, 104-116   | 50 |
| 1487 | Microstructure and properties of Fe <sub>5</sub> Cr <sub>5</sub> SiTiCoNbMoW coating by laser cladding. <b>2018</b> , 34, 283-288   | 16 |
| 1486 | Influence of compositional inhomogeneity on mechanical behavior of an interstitial dual-phase high-entropy alloy. <b>2018</b> , 210, 29-36  | 52 |
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| 1320 | Effect of annealing heat treatment on microstructural evolution and tensile behavior of Al <sub>0.5</sub> CoCrFeMnNi high-entropy alloy. <b>2018</b> , 728, 251-258 | 32  |
| 1319 | Structural and bonding transformation of Al <sub>0.67</sub> CrCoCuFeNi high-entropy alloys during quenching. <b>2018</b> , 753, 636-641                             | 13  |
| 1318 | The effect of SiC nanoparticles addition on the electrochemical response of mechanically alloyed CoCrFeMnNi high entropy alloy. <b>2018</b> , 215, 385-392          | 25  |

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| 1316 | Microstructure and mechanical property of a novel ReMoTaW high-entropy alloy with high density. <b>2018</b> , 77, 8-11   | 23  |
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| 1314 | Fracture resistance of high entropy alloys: A review. <b>2018</b> , 99, 69-83  | 95  |
| 1313 | Interstitial strengthening of refractory ZrTiHfNb <sub>0.5</sub> Ta <sub>0.5</sub> O <sub>x</sub> (x = 0.05, 0.1, 0.2) high-entropy alloys. <b>2018</b> , 228, 145-147                 | 16  |
| 1312 | Microstructure and properties of bulk Al <sub>0.5</sub> CoCrFeNi high-entropy alloy by cold rolling and subsequent annealing. <b>2018</b> , 729, 141-148                               | 44  |
| 1311 | Design of non-equiatomic high entropy alloys with heterogeneous lamella structure towards strength-ductility synergy. <b>2018</b> , 154, 78-82   | 40  |
| 1310 | Unique mechanical properties of Cu/(NbMoTaW) nanolaminates. <b>2018</b> , 154, 154-158   | 10  |
| 1309 | Elastic properties of Al CrMnFeCoNi (0 ≤ x ≤ 1) high-entropy alloys from ab initio theory. <b>2018</b> , 155, 12-22  | 51  |
| 1308 | Investigation of plastic deformation modes in Al <sub>0.1</sub> CoCrFeNi high entropy alloy. <b>2018</b> , 217, 308-314  | 24  |
| 1307 | Fast production of high entropy alloys (CoCrFeNiAl <sub>x</sub> Ti <sub>y</sub> ) by electric current activated sintering system. <b>2018</b> , 155, 64-72                             | 27  |
| 1306 | Precipitation behavior during hot deformation of powder metallurgy Ti-Nb-Ta-Zr-Al high entropy alloys. <b>2018</b> , 100, 95-103   | 31  |
| 1305 | In situ neutron diffraction study on tensile deformation behavior of carbon-strengthened CoCrFeMnNi high-entropy alloys at room and elevated temperatures. <b>2018</b> , 33, 3192-3203 | 6   |
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| 1298 | Fatigue and fracture behavior of bulk metallic glasses and their composites. <i>Progress in Materials Science</i> , <b>2018</b> , 98, 168-248   | 42.2 | 52  |
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| 1291 | Twinning in metastable high-entropy alloys. <b>2018</b> , 9, 2381   |      | 108 |
| 1290 | Ultrastrong AlCoCrFeNi high-entropy alloys at small scales: effects of stacking faults vs. nanotwins. <b>2018</b> , 10, 13329-13334   |      | 35  |
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| 506 | Crystallographic orientation-dependent deformation characteristics of additive manufactured interstitial-strengthened high entropy alloys. <b>2023</b> , 222, 115049      | 0 |
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