

Nikita Yu Yurchenko

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45
papers

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19
h-index

42
g-index

46
ext. papers

2,322
ext. citations

3.7
avg, IF

5.21
L-index

#	Paper	IF	Citations
45	Effect of cryo-deformation on structure and properties of CoCrFeNiMn high-entropy alloy. <i>Intermetallics</i> , 2015 , 59, 8-17	3.5	259
44	High temperature deformation behavior and dynamic recrystallization in CoCrFeNiMn high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 188-195	5.3	156
43	Effect of carbon content and annealing on structure and hardness of the CoCrFeNiMn-based high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 59-71	5.7	153
42	Structure and mechanical properties of the AlCr _x NbTiV (x = 0, 0.5, 1, 1.5) high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 652, 266-280	5.7	134
41	Effect of thermomechanical processing on microstructure and mechanical properties of the carbon-containing CoCrFeNiMn high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 394-405	5.7	122
40	Structure and mechanical properties of B2 ordered refractory AlNbTiVZr _x (x = 0, 0.5) high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 82-90	5.3	103
39	Aging behavior of the HfNbTaTiZr high entropy alloy. <i>Materials Letters</i> , 2018 , 211, 87-90	3.3	92
38	Effect of Al content on structure and mechanical properties of the Al _x CrNbTiVZr (x = 0; 0.25; 0.5; 1) high-entropy alloys. <i>Materials Characterization</i> , 2016 , 121, 125-134	3.9	77
37	Laves-phase formation criterion for high-entropy alloys. <i>Materials Science and Technology</i> , 2017 , 33, 17-22	5	75
36	An AlNbTiVZr _{0.5} high-entropy alloy combining high specific strength and good ductility. <i>Materials Letters</i> , 2015 , 161, 136-139	3.3	71
35	Effect of Al on structure and mechanical properties of Al _x NbTiVZr (x = 0, 0.5, 1, 1.5) high entropy alloys. <i>Materials Science and Technology</i> , 2015 , 31, 1184-1193	1.5	64
34	Precipitation-strengthened refractory Al _{0.5} CrNbTi ₂ V _{0.5} high entropy alloy. <i>Materials Letters</i> , 2017 , 188, 162-164	3.3	63
33	Microstructure and Mechanical Properties Evolution of the Al, C-Containing CoCrFeNiMn-Type High-Entropy Alloy during Cold Rolling. <i>Materials</i> , 2017 , 11,	3.5	61
32	Effect of Cr and Zr on phase stability of refractory Al-Cr-Nb-Ti-V-Zr high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 757, 403-414	5.7	43
31	Evolution of Microstructure and Mechanical Properties of a CoCrFeMnNi High-Entropy Alloy during High-Pressure Torsion at Room and Cryogenic Temperatures. <i>Metals</i> , 2018 , 8, 123	2.3	26
30	Strength, corrosion resistance, and biocompatibility of ultrafine-grained Mg alloys after different modes of severe plastic deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 194, 012004	0.4	24
29	Microstructure evolution of a novel low-density TiCrNbV refractory high entropy alloy during cold rolling and subsequent annealing. <i>Materials Characterization</i> , 2019 , 158, 109980	3.9	21

28	Structure and mechanical properties of an in situ refractory Al ₂₀ Cr ₁₀ Nb ₁₅ Ti ₂₀ V ₂₅ Zr ₁₀ high entropy alloy composite. <i>Materials Letters</i> , 2020 , 264, 127372	3.3	19
27	Structure and hardness of B2 ordered refractory AlNbTiVZr _{0.5} high entropy alloy after high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 716, 308-315	5.3	19
26	Mechanical Properties, Biodegradation, and Biocompatibility of Ultrafine Grained Magnesium Alloy WE43. <i>Materials</i> , 2019 , 12,	3.5	18
25	Structures and mechanical properties of Ti-Nb-Cr-V-Ni-Al refractory high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 786, 139409	5.3	17
24	Phase Evolution of the Al _x NbTiVZr (x = 0; 0.5; 1; 1.5) High Entropy Alloys. <i>Metals</i> , 2016 , 6, 298	2.3	16
23	Oxidation Behavior of Refractory AlNbTiVZr High-Entropy Alloy. <i>Materials</i> , 2018 , 11,	3.5	15
22	Gum-like mechanical behavior of a partially ordered Al ₅ Nb ₂₄ Ti ₄₀ V ₅ Zr ₂₆ high entropy alloy. <i>Intermetallics</i> , 2020 , 116, 106652	3.5	14
21	A new refractory Ti-Nb-Hf-Al high entropy alloy strengthened by orthorhombic phase particles. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 92, 105322	4.1	13
20	Microstructure and Mechanical Properties Evolution in HfNbTaTiZr Refractory High-Entropy Alloy During Cold Rolling. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000105	3.5	12
19	Microband-induced plasticity in a Ti-rich high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155868	5.7	11
18	Improving the property profile of a bioresorbable Mg-Y-Nd-Zr alloy by deformation treatments. <i>Materialia</i> , 2020 , 13, 100841	3.2	11
17	Design and characterization of eutectic refractory high entropy alloys. <i>Materialia</i> , 2021 , 16, 101057	3.2	11
16	Plastic deformation of solid-solution strengthened Hf-Nb-Ta-Ti-Zr body-centered cubic medium/high-entropy alloys. <i>Scripta Materialia</i> , 2021 , 200, 113927	5.6	10
15	Laser Beam Welding of a Low Density Refractory High Entropy Alloy. <i>Metals</i> , 2019 , 9, 1351	2.3	9
14	Deformation induced twinning in hcp/bcc Al ₁₀ Hf ₂₅ Nb ₅ Sc ₁₀ Ti ₂₅ Zr ₂₅ high entropy alloy □ microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140449	5.3	7
13	Creep behavior of an AlTiVNbZr _{0.25} high entropy alloy at 1073 K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 783, 139291	5.3	6
12	Effect of multiaxial forging on microstructure and mechanical properties of Mg-0.8Ca alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012075	0.4	6
11	Refractory high entropy alloy with ductile intermetallic B2 matrix / hard bcc particles and exceptional strain hardening capacity. <i>Materialia</i> , 2021 , 20, 101225	3.2	5

10	Microstructure Refinement in the CoCrFeNiMn High Entropy Alloy under Plastic Straining. <i>Materials Science Forum</i> , 2016 , 879, 1853-1858	0.4	2
9	Cross-kink unpinning controls the medium- to high-temperature strength of body-centered cubic NbTiZr medium-entropy alloy. <i>Scripta Materialia</i> , 2022 , 209, 114367	5.6	2
8	Precipitation-hardened refractory Ti-Nb-Hf-Al-Ta high-entropy alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1014, 012041	0.4	2
7	Study of the Structure Formation during Compression for Selecting Multiaxial Deformation Conditions for an MgCa Alloy. <i>Russian Metallurgy (Metally)</i> , 2018 , 2018, 1046-1058	0.5	1
6	Effect of multiaxial deformation on structure, mechanical properties, and corrosion resistance of a Mg-Ca alloy. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	1
5	Aging behavior of two refractory Ti-Nb-(Hf, Zr)-Al high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161586	5.7	1
4	Unique precipitations in a novel refractory Nb-Mo-Ti-Co high-entropy superalloy. <i>Materials Research Letters</i> , 2022 , 10, 78-87	7.4	0
3	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr _{0.25} high-entropy alloy. <i>Materials Letters</i> , 2022 , 311, 131584	3.3	0
2	Structure and mechanical properties of near-eutectic refractory Al-Cr-Nb-Ti-Zr high entropy alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1014, 012058	0.4	0
1	Design and Characterization of Al-Cr-Nb-Ti-V-Zr High-Entropy Alloys for High-Temperature Applications. <i>Physical Mesomechanics</i> , 2021 , 24, 642-652	1.6	0