Nikita Yu Yurchenko

List of Publications by Year in Descending Order

45 papers	1,774 citations	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	Unique precipitations in a novel refractory Nb-Mo-Ti-Co high-entropy superalloy. *Materials Research Letters*, **2022**, 10, 78-87	7.4	0
44	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy. *Materials Letters*, **2022**, 311, 131584	3.3	0
43	Cross-kink unpinning controls the medium- to high-temperature strength of body-centered cubic NbTiZr medium-entropy alloy. *Scripta Materialia*, **2022**, 209, 114367	5.6	2
42	Aging behavior of two refractory Ti-Nb-(Hf, Zr)-Al high entropy alloys. *Journal of Alloys and Compounds*, **2022**, 889, 161586	5.7	1
41	Design and characterization of eutectic refractory high entropy alloys. *Materialia*, **2021**, 16, 101057	3.2	11
40	Deformation induced twinning in hcp/bcc Al10Hf25Nb5Sc10Ti25Zr25 high entropy alloy microstructure and mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 802, 140449	5.3	7
39	Structure and mechanical properties of near-eutectic refractory Al-Cr-Nb-Ti-Zr high entropy alloys. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1014, 012058	0.4	0
38	Precipitation-hardened refractoryTi-Nb-Hf-Al-Ta high-entropy alloys. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1014, 012041	0.4	2
37	Plastic deformation of solid-solution strengthened Hf-Nb-Ta-Ti-Zr body-centered cubic medium/high-entropy alloys. *Scripta Materialia*, **2021**, 200, 113927	5.6	10
36	Effect of multiaxial deformation on structure, mechanical properties, and corrosion resistance of a Mg-Ca alloy. *Journal of Magnesium and Alloys*, **2021**,	8.8	1
35	Refractory high entropy alloy with ductile intermetallic B2 matrix / hard bcc particles and exceptional strain hardening capacity. *Materialia*, **2021**, 20, 101225	3.2	5
34	Design and Characterization of Al-Cr-Nb-Ti-V-Zr High-Entropy Alloys for High-Temperature Applications. *Physical Mesomechanics*, **2021**, 24, 642-652	1.6	0
33	Microstructure and Mechanical Properties Evolution in HfNbTaTiZr Refractory High-Entropy Alloy During Cold Rolling. *Advanced Engineering Materials*, **2020**, 22, 2000105	3.5	12
32	Creep behavior of an AlTiVNbZr0.25 high entropy alloy at 1073 K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 783, 139291	5.3	6
31	Microband-induced plasticity in a Ti-rich high-entropy alloy. *Journal of Alloys and Compounds*, **2020**, 842, 155868	5.7	11
30	A new refractory Ti-Nb-Hf-Al high entropy alloy strengthened by orthorhombic phase particles. *International Journal of Refractory Metals and Hard Materials*, **2020**, 92, 105322	4.1	13
29	Structure and mechanical properties of an in situ refractory Al20Cr10Nb15Ti20V25Zr10 high entropy alloy composite. *Materials Letters*, **2020**, 264, 127372	3.3	19

28	Structures and mechanical properties of Ti-Nb-Cr-V-Ni-Al refractory high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 786, 139409	5.3	17
27	Gum-like mechanical behavior of a partially ordered Al5Nb24Ti40V5Zr26 high entropy alloy. *Intermetallics*, **2020**, 116, 106652	3.5	14
26	Improving the property profile of a bioresorbable Mg-Y-Nd-Zr alloy by deformation treatments. *Materialia*, **2020**, 13, 100841	3.2	11
25	Microstructure evolution of a novel low-density TiCrNbV refractory high entropy alloy during cold rolling and subsequent annealing. *Materials Characterization*, **2019**, 158, 109980	3.9	21
24	Laser Beam Welding of a Low Density Refractory High Entropy Alloy. *Metals*, **2019**, 9, 1351	2.3	9
23	Mechanical Properties, Biodegradation, and Biocompatibility of Ultrafine Grained Magnesium Alloy WE43. *Materials*, **2019**, 12,	3.5	18
22	Structure and hardness of B2 ordered refractory AlNbTiVZr0.5 high entropy alloy after high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 716, 308-315	5.3	19
21	Aging behavior of the HfNbTaTiZr high entropy alloy. *Materials Letters*, **2018**, 211, 87-90	3.3	92
20	Evolution of Microstructure and Mechanical Properties of a CoCrFeMnNi High-Entropy Alloy during High-Pressure Torsion at Room and Cryogenic Temperatures. *Metals*, **2018**, 8, 123	2.3	26
19	Effect of Cr and Zr on phase stability of refractory Al-Cr-Nb-Ti-V-Zr high-entropy alloys. *Journal of Alloys and Compounds*, **2018**, 757, 403-414	5.7	43
18	Study of the Structure Formation during Compression for Selecting Multiaxial Deformation Conditions for an MgCa Alloy. *Russian Metallurgy (Metally)*, **2018**, 2018, 1046-1058	0.5	1
17	Oxidation Behavior of Refractory AlNbTiVZr High-Entropy Alloy. *Materials*, **2018**, 11,	3.5	15
16	Laves-phase formation criterion for high-entropy alloys. *Materials Science and Technology*, **2017**, 33, 17-22	1.5	75
15	Strength, corrosion resistance, and biocompatibility of ultrafine-grained Mg alloys after different modes of severe plastic deformation. *IOP Conference Series: Materials Science and Engineering*, **2017**, 194, 012004	0.4	24
14	Microstructure and Mechanical Properties Evolution of the Al, C-Containing CoCrFeNiMn-Type High-Entropy Alloy during Cold Rolling. *Materials*, **2017**, 11,	3.5	61
13	Structure and mechanical properties of B2 ordered refractory AlNbTiVZr x (x = 0–1.5) high-entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 704, 82-90	5.3	103
12	Precipitation-strengthened refractory Al 0.5 CrNbTi 2 V 0.5 high entropy alloy. *Materials Letters*, **2017**, 188, 162-164	3.3	63
11	Effect of thermomechanical processing on microstructure and mechanical properties of the carbon-containing CoCrFeNiMn high entropy alloy. *Journal of Alloys and Compounds*, **2017**, 693, 394-405	5.7	122

10	Microstructure Refinement in the CoCrFeNiMn High Entropy Alloy under Plastic Straining. *Materials Science Forum*, **2016**, 879, 1853-1858	0.4	2
9	Effect of carbon content and annealing on structure and hardness of the CoCrFeNiMn-based high entropy alloys. *Journal of Alloys and Compounds*, **2016**, 687, 59-71	5.7	153
8	Phase Evolution of the AlxNbTiVZr (x = 0; 0.5; 1; 1.5) High Entropy Alloys. *Metals*, **2016**, 6, 298	2.3	16
7	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1) high-entropy alloys. *Materials Characterization*, **2016**, 121, 125-134	3.9	77
6	Effect of Al on structure and mechanical properties of AlxNbTiVZr (x = 0, 0.5, 1, 1.5) high entropy alloys. *Materials Science and Technology*, **2015**, 31, 1184-1193	1.5	64
5	High temperature deformation behavior and dynamic recrystallization in CoCrFeNiMn high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 636, 188-195	5.3	156
4	Structure and mechanical properties of the AlCrxNbTiV (x = 0, 0.5, 1, 1.5) high entropy alloys. *Journal of Alloys and Compounds*, **2015**, 652, 266-280	5.7	134
3	An AlNbTiVZr0.5 high-entropy alloy combining high specific strength and good ductility. *Materials Letters*, **2015**, 161, 136-139	3.3	71
2	Effect of cryo-deformation on structure and properties of CoCrFeNiMn high-entropy alloy. *Intermetallics*, **2015**, 59, 8-17	3.5	259
1	Effect of multiaxial forging on microstructure and mechanical properties of Mg-0.8Ca alloy. *IOP Conference Series: Materials Science and Engineering*, **2014**, 63, 012075	0.4	6