

Nikita Yu Yurchenko

List of Publications by Year in descending order

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1554
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#	ARTICLE	IF	CITATIONS
1	Effect of multiaxial deformation on structure, mechanical properties, and corrosion resistance of a Mg-Ca alloy. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 266-280.	5.5	12
2	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.	2.6	23
3	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr _{0.25} high-entropy alloy. <i>Materials Letters</i> , 2022, 311, 131584.	1.3	9
4	Unique precipitations in a novel refractory Nb-Mo-Ti-Co high-entropy superalloy. <i>Materials Research Letters</i> , 2022, 10, 78-87.	4.1	20
5	Oxidation behaviour of eutectic refractory high-entropy alloys at 800–1000°C. <i>Corrosion Science</i> , 2022, 205, 110464.	3.0	16
6	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.	2.6	9
7	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.	0.3	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.	0.3	2
9	Design and characterization of eutectic refractory high entropy alloys. <i>Materialia</i> , 2021, 16, 101057.	1.3	35
10	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.	2.6	43
11	Refractory high entropy alloy with ductile intermetallic B2 matrix / hard bcc particles and exceptional strain hardening capacity. <i>Materialia</i> , 2021, 20, 101225.	1.3	26
12	Aging behavior of two refractory Ti-Nb-(Hf, Zr)-Al high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161586.	2.8	6
13	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.	1.0	3
14	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.	1.8	30
15	Improving the property profile of a bioresorbable Mg-Y-Nd-Zr alloy by deformation treatments. <i>Materialia</i> , 2020, 13, 100841.	1.3	20
16	Microstructure and Mechanical Properties Evolution in HfNbTaTiZr Refractory High-Entropy Alloy During Cold Rolling. <i>Advanced Engineering Materials</i> , 2020, 22, 2000105.	1.6	26
17	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.	2.6	21
18	Microband-induced plasticity in a Ti-rich high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155868.	2.8	24

#	ARTICLE	IF	CITATIONS
19	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.	1.7	31
20	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. Materials Letters, 2020, 264, 127372.	1.3	29
21	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.	2.6	29
22	Microstructure evolution of a novel low-density Ti-Cr-Nb-V refractory high entropy alloy during cold rolling and subsequent annealing. Materials Characterization, 2019, 158, 109980.	1.9	37
23	Laser Beam Welding of a Low Density Refractory High Entropy Alloy. Metals, 2019, 9, 1351.	1.0	22
24	Mechanical Properties, Biodegradation, and Biocompatibility of Ultrafine Grained Magnesium Alloy WE43. Materials, 2019, 12, 3627.	1.3	25
25	Structure and hardness of B2 ordered refractory AlNbTiVZr _{0.5} high entropy alloy after high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 716, 308-315.	2.6	36
26	Aging behavior of the HfNbTaTiZr high entropy alloy. Materials Letters, 2018, 211, 87-90.	1.3	126
27	Study of the Structure Formation during Compression for Selecting Multiaxial Deformation Conditions for an Mg-Ca Alloy. Russian Metallurgy (Metally), 2018, 2018, 1046-1058.	0.1	2
28	Oxidation Behavior of Refractory AlNbTiVZr _{0.25} High-Entropy Alloy. Materials, 2018, 11, 2526.	1.3	32
29	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.	1.0	35
30	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.	2.8	84
31	Microstructure and Mechanical Properties Evolution of the Al, C-Containing CoCrFeNiMn-Type High-Entropy Alloy during Cold Rolling. Materials, 2018, 11, 53.	1.3	75
32	Laves-phase formation criterion for high-entropy alloys. Materials Science and Technology, 2017, 33, 17-22.	0.8	140
33	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.	0.3	33
34	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.	2.6	189
35	Precipitation-strengthened refractory Al _{0.5} CrNbTi ₂ V _{0.5} high entropy alloy. Materials Letters, 2017, 188, 162-164.	1.3	94
36	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.	2.8	171

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37	Phase Evolution of the Al _x NbTiVZr (x = 0; 0.5; 1; 1.5) High Entropy Alloys. Metals, 2016, 6, 298.	1.0	22
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. Materials Characterization, 2016, 121, 125-134.	1.9	106
39	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.	2.8	210
40	Effect of Al on structure and mechanical properties of Al _x NbTiVZr (x=0, 0.5, 1, 1.5) high entropy alloys. Materials Science and Technology, 2015, 31, 1184-1193.	0.8	104
41	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.	2.6	200
42	Structure and mechanical properties of the Al _x CrNbTiV (x=0, 0.5, 1, 1.5) high entropy alloys. Journal of Alloys and Compounds, 2015, 652, 266-280.	2.8	222
43	An AlNbTiVZr _{0.5} high-entropy alloy combining high specific strength and good ductility. Materials Letters, 2015, 161, 136-139.	1.3	105
44	Effect of cryo-deformation on structure and properties of CoCrFeNiMn high-entropy alloy. Intermetallics, 2015, 59, 8-17.	1.8	334
45	Effect of multiaxial forging on microstructure and mechanical properties of Mg-0.8Ca alloy. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012075.	0.3	8
46	Microstructure Refinement in the CoCrFeNiMn High Entropy Alloy under Plastic Straining. Materials Science Forum, 0, 879, 1853-1858.	0.3	3