

# Nikita Yu Yurchenko

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5305030/publications.pdf>

Version: 2024-02-01

46  
papers

2,831  
citations

236925  
25  
h-index

233421  
45  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of cryo-deformation on structure and properties of CoCrFeNiMn high-entropy alloy. Intermetallics, 2015, 59, 8-17.	3.9	334
2	Structure and mechanical properties of the AlCr <sub>x</sub> NbTiV (x=0, 0.5, 1, 1.5) high entropy alloys. Journal of Alloys and Compounds, 2015, 652, 266-280.	5.5	222
3	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.	5.5	210
4	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.	5.6	200
5	Structure and mechanical properties of B2 ordered refractory AlNbTiVZr <sub>x</sub> (x = 0–1.5) high-entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 82-90.	5.6	189
6	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.	5.5	171
7	Laves-phase formation criterion for high-entropy alloys. Materials Science and Technology, 2017, 33, 17-22.	1.6	140
8	Aging behavior of the HfNbTaTiZr high entropy alloy. Materials Letters, 2018, 211, 87-90.	2.6	126
9	Effect of Al content on structure and mechanical properties of the Al <sub>x</sub> CrNbTiVZr (x=0; 0.25; 0.5; 1) high-entropy alloys. Materials Characterization, 2016, 121, 125-134.	4.4	106
10	An AlNbTiVZr <sub>0.5</sub> high-entropy alloy combining high specific strength and good ductility. Materials Letters, 2015, 161, 136-139.	2.6	105
11	Effect of Al on structure and mechanical properties of Al <sub>x</sub> NbTiVZr (x=0, 0.5, 1, 1.5) high entropy alloys. Materials Science and Technology, 2015, 31, 1184-1193.	1.6	104
12	Precipitation-strengthened refractory Al <sub>0.5</sub> CrNbTi <sub>2</sub> V <sub>0.5</sub> high entropy alloy. Materials Letters, 2017, 188, 162-164.	2.6	94
13	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.	5.5	84
14	Microstructure and Mechanical Properties Evolution of the Al, C-Containing CoCrFeNiMn-Type High-Entropy Alloy during Cold Rolling. Materials, 2018, 11, 53.	2.9	75
15	Plastic deformation of solid-solution strengthened Hf-Nb-Ta-Ti-Zr body-centered cubic medium/high-entropy alloys. Scripta Materialia, 2021, 200, 113927.	5.2	43
16	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.	4.4	37
17	Structure and hardness of B2 ordered refractory AlNbTiVZr <sub>0.5</sub> high entropy alloy after high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 716, 308-315.	5.6	36
18	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	35

#	ARTICLE	IF	CITATIONS
19	Design and characterization of eutectic refractory high entropy alloys. <i>Materialia</i> , 2021, 16, 101057.	2.7	35
20	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.	0.6	33
21	Oxidation Behavior of Refractory AlNbTiVZr <sub>0.25</sub> High-Entropy Alloy. <i>Materials</i> , 2018, 11, 2526.	2.9	32
22	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.	3.8	31
23	Gum-like mechanical behavior of a partially ordered Al <sub>5</sub> Nb <sub>24</sub> Ti <sub>40</sub> V <sub>5</sub> Zr <sub>26</sub> high entropy alloy. <i>Intermetallics</i> , 2020, 116, 106652.	3.9	30
24	Structure and mechanical properties of an in situ refractory Al <sub>20</sub> Cr <sub>10</sub> Nb <sub>15</sub> Ti <sub>20</sub> V <sub>25</sub> Zr <sub>10</sub> high entropy alloy composite. <i>Materials Letters</i> , 2020, 264, 127372.	2.6	29
25	Structures and mechanical properties of Ti-Nb-Cr-V-Ni-Al refractory high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 786, 139409.	5.6	29
26	Microstructure and Mechanical Properties Evolution in HfNbTaTiZr Refractory High-Entropy Alloy During Cold Rolling. <i>Advanced Engineering Materials</i> , 2020, 22, 2000105.	3.5	26
27	Refractory high entropy alloy with ductile intermetallic B <sub>2</sub> matrix / hard bcc particles and exceptional strain hardening capacity. <i>Materialia</i> , 2021, 20, 101225.	2.7	26
28	Mechanical Properties, Biodegradation, and Biocompatibility of Ultrafine Grained Magnesium Alloy WE43. <i>Materials</i> , 2019, 12, 3627.	2.9	25
29	Microband-induced plasticity in a Ti-rich high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155868.	5.5	24
30	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.	5.2	23
31	Phase Evolution of the Al <sub>x</sub> NbTiVZr (x = 0; 0.5; 1; 1.5) High Entropy Alloys. <i>Metals</i> , 2016, 6, 298.	2.3	22
32	Laser Beam Welding of a Low Density Refractory High Entropy Alloy. <i>Metals</i> , 2019, 9, 1351.	2.3	22
33	Creep behavior of an AlTiVNbZr <sub>0.25</sub> high entropy alloy at 1073 K. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 783, 139291.	5.6	21
34	Improving the property profile of a bioresorbable Mg-Y-Nd-Zr alloy by deformation treatments. <i>Materialia</i> , 2020, 13, 100841.	2.7	20
35	Unique precipitations in a novel refractory Nb-Mo-Ti-Co high-entropy superalloy. <i>Materials Research Letters</i> , 2022, 10, 78-87.	8.7	20
36	Oxidation behaviour of eutectic refractory high-entropy alloys at 800–1000 °C. <i>Corrosion Science</i> , 2022, 205, 110464.	6.6	16

#	ARTICLE	IF	CITATIONS
37	Effect of multiaxial deformation on structure, mechanical properties, and corrosion resistance of a Mg-Ca alloy. Journal of Magnesium and Alloys, 2022, 10, 266-280.	11.9	12
38	Deformation induced twinning in hcp/bcc Al <sub>10</sub> Hf <sub>25</sub> Nb <sub>5</sub> Sc <sub>10</sub> Ti <sub>25</sub> Zr <sub>25</sub> high entropy alloy “microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140449.	5.6	9
39	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr <sub>0.25</sub> high-entropy alloy. Materials Letters, 2022, 311, 131584.	2.6	9
40	Effect of multiaxial forging on microstructure and mechanical properties of Mg-0.8Ca alloy. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012075.	0.6	8
41	Aging behavior of two refractory Ti-Nb-(Hf, Zr)-Al high entropy alloys. Journal of Alloys and Compounds, 2021, 889, 161586.	5.5	6
42	Microstructure Refinement in the CoCrFeNiMn High Entropy Alloy under Plastic Straining. Materials Science Forum, 0, 879, 1853-1858.	0.3	3
43	Design and Characterization of Al-Cr-Nb-Ti-V-Zr High-Entropy Alloys for High-Temperature Applications. Physical Mesomechanics, 2021, 24, 642-652.	1.9	3
44	Study of the Structure Formation during Compression for Selecting Multiaxial Deformation Conditions for an Mg-Ca Alloy. Russian Metallurgy (Metally), 2018, 2018, 1046-1058.	0.5	2
45	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.	0.6	2
46	Precipitation-hardened refractory Ti-Nb-Hf-Al-Ta high-entropy alloys. IOP Conference Series: Materials Science and Engineering, 2021, 1014, 012041.	0.6	2