

Nd Stepanov

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#	Paper	IF	Citations
116	Effect of Mn and V on structure and mechanical properties of high-entropy alloys based on CoCrFeNi system. <i>Journal of Alloys and Compounds</i> , 2014 , 591, 11-21	5.7	324
115	Effect of cryo-deformation on structure and properties of CoCrFeNiMn high-entropy alloy. <i>Intermetallics</i> , 2015 , 59, 8-17	3.5	259
114	Effect of V content on microstructure and mechanical properties of the CoCrFeMnNiV _x high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 628, 170-185	5.7	223
113	Tensile properties of an AlCrCuNiFeCo high-entropy alloy in as-cast and wrought conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 533, 107-118	5.3	216
112	Structure and mechanical properties of a light-weight AlNbTiV high entropy alloy. <i>Materials Letters</i> , 2015 , 142, 153-155	3.3	190
111	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
110	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
109	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
108	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
107	Second phase formation in the CoCrFeNiMn high entropy alloy after recrystallization annealing. <i>Materials Letters</i> , 2016 , 185, 1-4	3.3	103
106	Structure and mechanical properties of B2 ordered refractory AlNbTiVZr _x (x = 0-1.5) high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 82-90	5.3	103
105	Aging behavior of the HfNbTaTiZr high entropy alloy. <i>Materials Letters</i> , 2018 , 211, 87-90	3.3	92
104	Phase Composition and Superplastic Behavior of a Wrought AlCoCrCuFeNi High-Entropy Alloy. <i>Jom</i> , 2013 , 65, 1815-1828	2.1	77
103	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
102	Laves-phase formation criterion for high-entropy alloys. <i>Materials Science and Technology</i> , 2017 , 33, 17-22	5	75
101	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
100	Novel Fe ₃₆ Mn ₂₁ Cr ₁₈ Ni ₁₅ Al ₁₀ high entropy alloy with bcc/B2 dual-phase structure. <i>Journal of Alloys and Compounds</i> , 2017 , 705, 756-763	5.7	70

99	Effect of cold rolling on microstructure and mechanical properties of copper subjected to ECAP with various numbers of passes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 554, 105-115	5.3	69
98	Effect of second phase particles on mechanical properties and grain growth in a CoCrFeMnNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 748, 228-235	5.3	65
97	Tensile properties of the CrFeNiMn non-equiatomic multicomponent alloys with different Cr contents. <i>Materials and Design</i> , 2015 , 87, 60-65	8.1	64
96	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
95	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
94	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
93	Laser beam welding of a CoCrFeNiMn-type high entropy alloy produced by self-propagating high-temperature synthesis. <i>Intermetallics</i> , 2018 , 96, 63-71	3.5	59
92	Friction stir welding of a B ₂ -doped CoCrFeNiMn high-entropy alloy. <i>Materials Characterization</i> , 2018 , 145, 353-361	3.9	56
91	Effect of carbon on cryogenic tensile behavior of CoCrFeMnNi-type high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 811, 152000	5.7	51
90	Mechanical properties of a new high entropy alloy with a duplex ultra-fine grained structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 728, 54-62	5.3	45
89	Effect of Al on structure and mechanical properties of Fe-Mn-Cr-Ni-Al non-equiatomic high entropy alloys with high Fe content. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 194-203	5.7	45
88	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
87	Evolution of microstructure and mechanical properties in Cu ₁₄ Fe alloy during severe cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 564, 264-272	5.3	37
86	Superplasticity of AlCoCrCuFeNi High Entropy Alloy. <i>Materials Science Forum</i> , 2012 , 735, 146-151	0.4	37
85	Fatigue behaviour of a laser beam welded CoCrFeNiMn-type high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138358	5.3	36
84	Deformation behavior and microstructure evolution of a Ti/TiB metal-matrix composite during high-temperature compression tests. <i>Materials and Design</i> , 2016 , 112, 17-26	8.1	33
83	Structure and high temperature mechanical properties of novel non-equiatomic Fe-(Co, Mn)-Cr-Ni-Al-(Ti) high entropy alloys. <i>Intermetallics</i> , 2018 , 102, 140-151	3.5	33
82	Recrystallized microstructures and mechanical properties of a C-containing CoCrFeNiMn-type high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 740-741, 201-210	5.3	31

81	Evolution of microstructure and mechanical properties of Ti/TiB metal-matrix composite during isothermal multiaxial forging. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 840-848	5.7	30
80	Effect of nitrogen on mechanical properties of CoCrFeMnNi high entropy alloy at room and cryogenic temperatures. <i>Journal of Alloys and Compounds</i> , 2020 , 849, 156633	5.7	30
79	Hot deformation behavior and processing maps of B and Gd containing solidified TiAl based alloy. <i>Intermetallics</i> , 2018 , 94, 138-151	3.5	29
78	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
77	Orientation relationship in a Ti/TiB metal-matrix composite. <i>Materials Letters</i> , 2017 , 186, 168-170	3.3	24
76	Effect of carbon on recrystallised microstructures and properties of CoCrFeMnNi-type high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156839	5.7	22
75	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
74	Microstructure and texture evolution of a high manganese TWIP steel during cryo-rolling. <i>Materials Characterization</i> , 2017 , 132, 20-30	3.9	20
73	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
72	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
71	Brittle-to-ductile transition in a Ti/TiB metal-matrix composite. <i>Materials Letters</i> , 2017 , 187, 28-31	3.3	17
70	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
69	Effect of heat treatment on the structure and hardness of high-entropy alloys CoCrFeNiMnV _x (x = 0.25, 0.5, 0.75, 1). <i>Physics of Metals and Metallography</i> , 2017 , 118, 579-590	1.2	16
68	Mechanical behavior and thermal activation analysis of HfNbTaTiZr body-centered cubic high-entropy alloy during tensile deformation at 77 K. <i>Scripta Materialia</i> , 2020 , 188, 118-123	5.6	16
67	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
66	Exceptionally high strain-hardening and ductility due to transformation induced plasticity effect in Ti-rich high-entropy alloys. <i>Scientific Reports</i> , 2020 , 10, 13293	4.9	15
65	Oxidation Behavior of Refractory AlNbTiVZr High-Entropy Alloy. <i>Materials</i> , 2018 , 11,	3.5	15
64	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

63	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
62	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
61	Microband-induced plasticity in a Ti-rich high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155868	5.7	11
60	Effect of Hot Rolling on the Microstructure and Mechanical Properties of a Ti-15Mo/TiB Metal-Matrix Composite. <i>Metals</i> , 2020 , 10, 40	2.3	11
59	Design and characterization of eutectic refractory high entropy alloys. <i>Materialia</i> , 2021 , 16, 101057	3.2	11
58	Influence of carbon on the mechanical behavior and microstructure evolution of CoCrFeMnNi processed by high pressure torsion. <i>Materialia</i> , 2021 , 16, 101059	3.2	11
57	Mechanical Behavior and Microstructure Evolution of a Ti-15Mo/TiB Titanium Matrix Composite during Hot Deformation. <i>Metals</i> , 2019 , 9, 1175	2.3	11
56	Effect of High-Pressure Torsion on Structure and Microhardness of Ti/TiB Metal Matrix Composite. <i>Metals</i> , 2017 , 7, 507	2.3	10
55	Effect of High-Pressure Torsion on Structure and Properties of Ti-15Mo/TiB Metal-Matrix Composite. <i>Materials</i> , 2018 , 11,	3.5	10
54	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
53	Laser Beam Welding of a Low Density Refractory High Entropy Alloy. <i>Metals</i> , 2019 , 9, 1351	2.3	9
52	The predicted rate-dependent deformation behaviour and multistage strain hardening in a model heterostructured body-centered cubic high entropy alloy. <i>International Journal of Plasticity</i> , 2021 , 145, 103073	7.6	9
51	Mechanical Behavior and Microstructure Evolution during Superplastic Deformation of the Fine-Grained AlCoCrCuFeNi High Entropy Alloy. <i>Materials Science Forum</i> , 2016 , 838-839, 302-307	0.4	8
50	Effect of Multiaxial Forging on Structure Evolution and Mechanical Properties of Oxygen Free Copper. <i>Materials Science Forum</i> , 2010 , 667-669, 289-294	0.4	7
49	Oxidation resistance and thermal stability of a solidified TiAl based alloy after nitrogen ion implantation. <i>Corrosion Science</i> , 2020 , 177, 109003	6.8	7
48	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
47	The effect of Gd addition on the kinetics of β - β' transformation in TiAl based alloys. <i>Intermetallics</i> , 2020 , 120, 106759	3.5	6
46	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

45	Use of Novel Welding Technologies for High-Entropy Alloys Joining. <i>Materials Science Forum</i> , 2018 , 941, 919-924	0.4	6
44	Effect of ECAP on microstructure and mechanical properties of Cu-14Fe microcomposite alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012098	0.4	5
43	Structure and properties of an Mg-0.3% ca magnesium alloy after multiaxial deformation and equal-channel angular pressing. <i>Russian Metallurgy (Metally)</i> , 2014 , 2014, 911-919	0.5	5
42	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
41	Microstructure Evolution and Properties of Ti-6Al-4V Alloy Doped with Fe and Mo during Deformation at 800°C. <i>Defect and Diffusion Forum</i> , 2018 , 385, 144-149	0.7	4
40	Structure and mechanical properties of a low-density AlCrFeTi medium entropy alloy produced by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 795, 140018	5.3	4
39	Laser Beam Welding of a Ti-15Mo/TiB Metal Matrix Composite. <i>Metals</i> , 2021 , 11, 506	2.3	4
38	Mechanisms of the Reverse Martensite-to-Austenite Transformation in a Metastable Austenitic Stainless Steel. <i>Metals</i> , 2021 , 11, 599	2.3	4
37	Refractory TaTiNb, TaTiNbZr, and TaTiNbZrX (X = Mo, W) high entropy alloys by combined use of high energy ball milling and spark plasma sintering: Structural characterization, mechanical properties, electrical resistivity, and thermal conductivity. <i>Journal of Alloys and Compounds</i> , 2021 , 162030	5.7	4
36	Effect of Cold Rolling on Structure and Mechanical Properties of Copper Subjected to Different Numbers of Passes of ECAP. <i>Materials Science Forum</i> , 2010 , 667-669, 295-300	0.4	3
35	Outstanding cryogenic strength-ductility properties of a cold-rolled medium-entropy TRIP Fe ₆₅ (CoNi) ₂₅ Cr ₉ B _{0.5} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 836, 142720	5.3	3
34	Gradient soft magnetic materials produced by additive manufacturing from non-magnetic powders. <i>Journal of Materials Processing Technology</i> , 2022 , 300, 117393	5.3	3
33	Strengthening of a CoCrFeNiMn-Type High Entropy Alloy by Regular Arrays of Nanoprecipitates. <i>Materials Science Forum</i> , 2018 , 941, 772-777	0.4	3
32	Effect of nitrogen on microstructure and mechanical properties of the CoCrFeMnNi high-entropy alloy after cold rolling and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2021 , 888, 161452	5.7	3
31	Microstructure Refinement in the CoCrFeNiMn High Entropy Alloy under Plastic Straining. <i>Materials Science Forum</i> , 2016 , 879, 1853-1858	0.4	2
30	Wear resistance of Ti/TiB composites produced by spark plasma sintering 2017 ,		2
29	Influence of cold rolling and annealing on the microstructure, mechanical properties, and electrical conductivity of an artificial microcomposite Cu-18% Nb alloy. <i>Russian Metallurgy (Metally)</i> , 2010 , 2010, 1072-1079	0.5	2
28	Structure and Properties of Ti/TiB Metal-Matrix Composite after Isothermal Multiaxial Forging. <i>Acta Physica Polonica A</i> , 2018 , 134, 695-698	0.6	2

27	Evolution of microstructure and mechanical properties of Ti-based metal-matrix composites during hot deformation. <i>MATEC Web of Conferences</i> , 2020 , 321, 12016	0.3	2
26	Friction Stir Welding of a TRIP Fe49Mn30Cr10Co10C1 High Entropy Alloy. <i>Metals</i> , 2021 , 11, 66	2.3	2
25	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
24	Prediction of strength characteristics of high-entropy alloys Al-Cr-Nb-Ti-V-Zr systems. <i>Materials Today: Proceedings</i> , 2021 , 38, 1535-1540	1.4	2
23	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
22	Effect of Plastic Deformation on the Structure and Properties of the Ti/TiB Composite Produced by Spark Plasma Sintering. <i>Russian Metallurgy (Metally)</i> , 2018 , 2018, 638-644	0.5	2
21	Excellent strength-toughness synergy in metastable austenitic stainless steel due to gradient structure formation. <i>Materials Letters</i> , 2021 , 303, 130585	3.3	2
20	Effect of Interstitial Elements on the Cryogenic Mechanical Behavior of FCC High Entropy Alloys. <i>Materials Science Forum</i> , 2016 , 1386-1391	0.4	2
19	Structure and Properties of High-Entropy Nitride Coatings. <i>Metals</i> , 2022 , 12, 847	2.3	2
18	Mechanisms of Grain Structure Evolution in a Quenched Medium Carbon Steel during Warm Deformation. <i>Crystals</i> , 2020 , 10, 554	2.3	1
17	Superplastic Behavior of B- and Gd-Containing Solidifying TiAl Based Alloy. <i>Defect and Diffusion Forum</i> , 2018 , 385, 131-136	0.7	1
16	Effect of temperature and strain on the formation of elongated fine grained structure in middle carbon steel during large plastic deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012054	0.4	1
15	Effect of pre-heating and post-weld heat treatment on structure and mechanical properties of laser beam-welded Ti2AlNb-based joints. <i>Intermetallics</i> , 2022 , 143, 107466	3.5	1
14	Effect of friction stir welding on the structure and mechanical properties of the CoCrFeNiMn-0.9%C alloy 2019 ,		1
13	Effect of carbon content on cryogenic mechanical properties of CoCrFeMnNi high entropy alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1014, 012050	0.4	1
12	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
11	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
10	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

9	B2 precipitates formation in Al-containing CoCrFeMnNi-type high entropy alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1014, 012018	0.4	1
8	Effect of Annealing on Phase Composition and Microstructure of the CoCrFeNiMnVx ($x=0, 0.25, 0.5, 0.75, 1$) High Entropy Alloys1157-1164		1
7	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
6	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy. <i>Materials Letters</i> , 2022 , 311, 131584	3.3	0
5	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
4	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
3	Hot Deformation Behavior of Solidifying TiAl Based Alloy. <i>Acta Physica Polonica A</i> , 2018 , 134, 675-677	0.6	
2	Friction Stir Welding of the Carbon-Doped Dual-Phase High Entropy Alloy. <i>Solid State Phenomena</i> , 316, 364-368	0.4	
1	Efficiency of Microstructure Refinement in Ti-Based Alloys. <i>Materials Science Forum</i> , 1016, 1753-1758	0.4	