Elena D Tabachnikova

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/3289345/elena-d-tabachnikova-publications-by-year.pdf
Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	927 citations	15 h-index	29 g-index
70 ext. papers	1,016 ext. citations	2.2 avg, IF	3.7 L-index

#	Paper	IF	Citations
69	Unraveling the discontinuous plastic flow of a Co-Cr-Fe-Ni-Mo multiprincipal-element alloy at deep cryogenic temperatures. *Physical Review Materials*, **2021**, 5,	3.2	4
68	Anomalous Evolution of Strength and Microstructure of High-Entropy Alloy CoCrFeNiMn after High-Pressure Torsion at 300 and 77 K. *Advanced Engineering Materials*, **2020**, 22, 1900752	3.5	11
67	Mechanical properties and thermally activated plasticity of the Ti30Zr25Hf15Nb20Ta10 high entropy alloy at temperatures 4.2–350 K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 710, 136-141	5.3	21
66	Microstructure and Mechanical Properties of High-Entropy Alloy CoCrFeMnNi Processed by High-Pressure Torsion at 77 K and 300 K. *Scientific Reports*, **2018**, 8, 11074	4.9	30
65	Physical-Mechanical Properties of the 54.6Ni–11Fe–30Cr–3.5Nb–0.5Ti–0.4C and 58Ni–11Fe–30Cr–0.5Nb–0.5Ti Alloys in the Low-Temperature Region. *Metallofizika I Noveishie Tekhnologii*, **2018**, 40, 1051-1067	0.5	
64	Thermally activated deformation of nanocrystalline and coarse grained CoCrFeNiMn high entropy alloy in the temperature range 4.2–350 K. *Low Temperature Physics*, **2018**, 44, 976-982	0.7	4
63	Effect of carbon content and annealing on structure and hardness of CrFe2NiMnV0.25 high-entropy alloys processed by high-pressure torsion. *Journal of Materials Science*, **2018**, 53, 11813-11822	4.3	12
62	Temperature Dependent Yield Strength, Strain Hardening and Failure of the CoCrFeNiMnVx High Entropy Alloys. *Materials Science Forum*, **2017**, 891, 438-443	0.4	
61	Deformation-induced phase transformation of Co 20 Cr 26 Fe 20 Mn 20 Ni 14 high-entropy alloy during high-pressure torsion at 77 K. *Materials Letters*, **2017**, 202, 86-88	3.3	40
60	Mechanical properties of the CoCrFeNiMnV x high entropy alloys in temperature range 4.2–300 K. *Journal of Alloys and Compounds*, **2017**, 698, 501-509	5.7	36
59	Conchoidal Fracture of Zr- and Mg-Based Amorphous Glass. *Materials Science Forum*, **2017**, 891, 504-508	0.4	1
58	Deformation and Failure of Ultrafine-Grained Cu at Subambient Temperature. *Materials Science Forum*, **2017**, 891, 249-253	0.4	
57	Mechanical properties of the high-entropy alloy Al0.5CoCrCuFeNi in various structural states at temperatures of 0.5–300 K. *Low Temperature Physics*, **2017**, 43, 1108-1118	0.7	12
56	Plastic dynamics of the Al0.5CoCrCuFeNi high entropy alloy at cryogenic temperatures: Jerky flow, stair-like fluctuation, scaling behavior, and non-chaotic state. *Applied Physics Letters*, **2017**, 111, 251905	3.4	17
55	Fragmentation of Co-Fe-Ta-B Soft Magnetic Amorphous Alloy. *Acta Physica Polonica A*, **2015**, 127, 558-560	0.6	
54	Generation of Nanoscale Stripes at Failure of Amorphous Metals. *Key Engineering Materials*, **2015**, 662, 221-224	0.4	
53	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). *Jom*, **2014**, 66, 2002-2008	2.1	62

52	Cryogenic equal channel angular pressing of commercially pure titanium: microstructure and properties. *Journal of Materials Science*, **2014**, 49, 6803-6812	4.3	25
51	Variation of the deformation mechanisms in a nanocrystalline Pd–10at.% Au alloy at room and cryogenic temperatures. *International Journal of Plasticity*, **2014**, 60, 40-57	7.6	12
50	Structure and properties of nanostructured Cobalt processed by high pressure torsion at temperatures of 300 and 77 K. *IOP Conference Series: Materials Science and Engineering*, **2014**, 63, 012103	0.4	
49	Experimental investigation and comparative analysis of Ni-18.75 at. % Fe alloy plasticity, in coarse-grained and nano-crystalline states in the 4.2–350 K temperature range. *Low Temperature Physics*, **2014**, 40, 1104-1111	0.7	5
48	Temperature dependent mechanical properties and thermal activation plasticity of nanocrystalline and coarse grained Ni-18.75 at.% Fe alloy. *IOP Conference Series: Materials Science and Engineering*, **2014**, 63, 012105	0.4	5
47	Equal channel angular pressing at temperatures of 77-575 K of Titanium Grade 2: Microstructure and mechanical properties. *IOP Conference Series: Materials Science and Engineering*, **2014**, 63, 012071	0.4	1
46	Microstructure and mechanical properties of high purity nanostructured titanium processed by high pressure torsion at temperatures 300 and 77 K. *Journal of Materials Science*, **2013**, 48, 4689-4697	4.3	26
45	Local Deformation of Microsized Amorphous Powder at Low Temperatures. *Key Engineering Materials*, **2013**, 586, 210-213	0.4	
44	Thermal activation plasticity of nanocrystalline Ni–18.75 at. % Fe alloy in temperature range 4.2–350 K. *Low Temperature Physics*, **2012**, 38, 239-247	0.7	15
43	Strain hardening and microstructure evolution during uniaxial compression of ultrafine grained zirconium at temperatures of 4.2–300 K. *Low Temperature Physics*, **2011**, 37, 609-617	0.7	6
42	Effect of counterpressure during equal-channel angular pressing on nanoporosity formation in ultrafine-grained copper. *Technical Physics Letters*, **2011**, 37, 767-768	0.7	5
41	Microstructure and Properties of Nanostructured Zirconium Processed by High Pressure Torsion. *Materials Science Forum*, **2010**, 667-669, 433-438	0.4	3
40	Anomalous decrease of propagation rate of the macroscopic shear band in the Zr-based bulk metallic glasses at temperatures 170 and 77K. *Journal of Alloys and Compounds*, **2010**, 495, 345-347	5.7	3
39	Strain-Rate Sensitivity and Failure Peculiarities in Compression of the Nanocrystalline Ni-20 Pct Fe Alloy at Low Temperatures. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 848-853	2.3	6
38	Low Temperature Failure of Al90Fe7Ta3Amorphous Alloys. *Acta Physica Polonica A*, **2010**, 118, 823-824	0.6	
37	Low Temperature Failure of Fe76Ni2Si9B13 Compacted from Amorphous Glass Powder. *Key Engineering Materials*, **2009**, 409, 358-361	0.4	
36	Mechanical characteristics, failure regularities, and dimple structures on failure surfaces of Ti–6Al–4V ELI ultrafine-grained alloy at temperatures from 300 to 4.2K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 503, 106-109	5.3	5
35	Mechanical properties of nanocrystalline Ni-20%Fe alloy at temperatures from 300 to 4.2K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2009**, 503, 110-113	5.3	6

34	Shear band melting and serrated flow in metallic glasses. *Applied Physics Letters*, **2008**, 93, 031907	3.4	100
33	Strength and Plasticity of Ultra-Fine Grained Zirconium at Low Temperatures. *Materials Science Forum*, **2008**, 584-586, 452-457	0.4	
32	Mechanical properties of ultrafine-grain zirconium in the temperature range 4.2–300K. *Low Temperature Physics*, **2008**, 34, 969-975	0.7	11
31	Low-temperature plasticity anomaly in the bulk metallic glass Zr64.13Cu15.75Ni10.12Al10. *Low Temperature Physics*, **2008**, 34, 675-677	0.7	19
30	Microstructure features of failure and mechanical properties of ultra-fine grained Ti–6AL–4V ELI alloy at 300–77 K. *International Journal of Mechanics and Materials in Design*, **2008**, 4, 189-195	2.5	2
29	Failure of Zr50Ti16.5Cu15Ni18.5 amorphous metallic ribbon. *Strength of Materials*, **2008**, 40, 20-23	0.6	1
28	Microstructural features of failure surfaces and low-temperature mechanical properties of Ti-6Al-4V ELI ultra-fine grained alloy. *Strength of Materials*, **2008**, 40, 71-74	0.6	2
27	Temperature-dependent mechanical behavior of a nanostructured Ni–Be alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 493, 93-96	5.3	15
26	Mechanical behavior of nanostructured metals and alloys in the 300–4.2 K temperature interval. *International Journal of Materials Research*, **2007**, 98, 339-345	0.5	3
25	Low Temperature Mechanical Properties of Different Commercial Purity Nanostructured Titanium Processed by ECA Pressing. *Materials Science Forum*, **2006**, 503-504, 633-638	0.4	5
24	Fatigue behavior of nanocrystalline metals and alloys. *International Journal of Fatigue*, **2005**, 27, 1147-1158	3	204
23	Monotonic and jumpwise deformation of bulk amorphous Zr46.8Ti8Cu7.5Ni10Be27.5 alloy in nanoindentation. *Crystallography Reports*, **2005**, 50, 291-296	0.6	3
22	Jump-Like Deformation of Zr46,8Ti8Cu7,5Ni10Be27,5 Bulk Amorphous Alloy. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 89-92	0.2	2
21	Influence of Thermal Treatment of Ni-P Melt on Structure of Amorphous Alloys. *European Physical Journal D*, **2004**, 54, 133-136		1
20	Magnetic and electrical investigations of Fe85-xCoxB15 metallic glasses. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 1947-1953	2.6	3
19	Effect of compositional order upon ductile shear failure and structural relaxation of Fe(80–x)NixB20 metallic glass ribbons. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 355, 88-95	5.3	
18	The effect, studied by SANS, of rapid quenching from ambient to subambient temperatures on the microstructure of some metallic glass ribbons. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s1131-s1135	2.6	7
17	Low-temperature deformation and fracture of bulk nanostructural titanium obtained by intense plastic deformation using equal channel angular pressing. *Low Temperature Physics*, **2002**, 28, 864-874	0.7	20

16	The contribution of grain boundary dislocations to the plastic deformation of nanostructured titanium from the SD-effect of the yield stress. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 309-310, 524-527	5.3	28
15	On extending dislocation notions to the amorphous state of solids. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 309-310, 544-547	5.3	2
14	New features of the low temperature ductile shear failure observed in bulk amorphous alloys. *Journal of Materials Science*, **2000**, 35, 4449-4457	4.3	55
13	Anomalies of Mechanical and Physical Properties of the Fe83B17 Eutectic Metallic Glass and their Connection with the Peculiarities of Nanoclusterous Structure. *Materials Science Forum*, **2000**, 343-346, 43-48	0.4	1
12	Low Temperature Ductile Shear Failure of Zr41.2Ti13.8Ni10Cu12.5Be22.5 and Cu50Zr35Ti8Hf5Ni2 Bulk Amorphous Alloys. *Materials Science Forum*, **2000**, 343-346, 197-202	0.4	7
11	Microscopic mechanism of the effect of composition and topological orders of metal glasses on plastic shear resistance. *Low Temperature Physics*, **1997**, 23, 1004-1009	0.7	6
10	Singularity of Some Low Temperature Physical Properties of Fe100-xBx Metallic Glasses of the Eutectic Composition. *Materials Science Forum*, **1996**, 225-227, 21-26	0.4	2
9	Possible local superplasticity of amorphous metallic alloys in the catastrophic shear band under low temperature ductile shear failure. *Scripta Materialia*, **1996**, 35, 781-784	5.6	19
8	Low Temperature Plasticity and Failure of a Bulk Cu50Zr35Ti8Hf5Ni2 Metallic Glass. *Materials Science Forum*, **1996**, 225-227, 107-112	0.4	2
7	On Causes of High Local Plasticity of a Bulk Cu50Zr35Ti8Hf5Ni2 Amorphous Alloy during Low Temperature Shear Failure under Compression. *Key Engineering Materials*, **1995**, 97-98, 103-108	0.4	1
6	Failure crack orientation at ductile shear fracture of Fe80 Ni x B20 metallic glass ribbons. *Journal of Materials Science*, **1990**, 25, 1598-1602	4.3	11
5	Fracture toughness of amorphous Fe40Ni40B20 ribbons: strain rate dependence. *Journal of Materials Science Letters*, **1990**, 9, 529-531		6
4	Temperature dependence for the compressive strength of materials prepared by impact compression of rapidly quenched powders. *Combustion, Explosion and Shock Waves*, **1989**, 24, 499-502	1	
3	Low-temperature fracture toughness of some iron, nickel-based metallic glass ribbons. *Journal of Materials Science*, **1987**, 22, 3732-3736	4.3	8
2	Comparison of different dislocation representations of the yield strength of a monocrystal. *Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)*, **1984**, 27, 493-498		2
1	Temperature and Strain Rate Effects on Work-Hardening of KCl Single Crystals. *Crystal Research and Technology: Journal of Experimental and Industrial Crystallography*, **1974**, 9, 1187-1197		4