Vladyslav Moskalenko

List of Publications by Citations

35 papers	305 citations	10 h-index	16 g-index
37 ext. papers	330 ext. citations	1.5 avg, IF	2.86 L-index

#	Paper	IF	Citations
35	Low temperature peculiarities of plastic deformation in titanium and its alloys. *Cryogenics*, **1980**, 20, 503-508	1.8	41
34	Cryomechanically obtained nanocrystalline titanium: microstructure and mechanical properties. *Low Temperature Physics*, **2009**, 35, 905-907	0.7	40
33	Barrier parameters and statistics controlling the plasticity of Ti-O solid solutions in the temperature range 20–50 K. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1994**, 70, 423-438		32
32	The role of Peierls relief in the low-temperature plasticity of pure α-Ti. *Low Temperature Physics*, **2005**, 31, 907-914	0.7	19
31	Dispersed barrier hardening and thermally activated deformation in α-titanium. *Materials Science and Engineering*, **1974**, 16, 269-276		19
30	Micromechanical properties of nanocrystalline titanium obtained by cryorolling. *Low Temperature Physics*, **2010**, 36, 645-652	0.7	15
29	Low-temperature plastic deformation and strain-hardening of nanocrystalline titanium. *Low Temperature Physics*, **2014**, 40, 837-845	0.7	14
28	Mechanical properties and structural features of nanocrystalline titanium produced by cryorolling. *Physics of the Solid State*, **2014**, 56, 1590-1596	0.8	13
27	Fundamentals of titanium nanocrystalline structure creation by cryomechanical grain fragmentation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 700, 707-713	5.3	12
26	Staged work hardening of polycrystalline titanium at low temperatures and its relation to substructure evolution. *Low Temperature Physics*, **2002**, 28, 935-941	0.7	10
25	Micromechanical properties of VT1-0 titanium cryorolled to various degrees of strain. *Low Temperature Physics*, **2015**, 41, 649-658	0.7	9
24	Quality of surface treatment and plastic deformation of titanium alloys at 2.5 to 293 K. *Cryogenics*, **1989**, 29, 1002-1005	1.8	9
23	Structural homogeneity of nanocrystalline VT1-0 titanium. Low-temperature micromechanical properties. *Low Temperature Physics*, **2012**, 38, 980-988	0.7	8
22	Investigation of titanium nanostructure deformed at low temperatures. *Low Temperature Physics*, **2011**, 37, 1042-1047	0.7	8
21	Correlation between substructure and mechanical properties of α-Ti at varying deformation temperatures 4.2–873 K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 327, 138-143	5.3	8
20	The Theory of Superconductors with Overlapping Energy Bands. *Uspekhi Fizicheskikh Nauk*, **1974**, 17, 450-451		8
19	Observation of glass-like low-temperature anomalies in the acoustic properties of nanostructured metals. *Low Temperature Physics*, **2013**, 39, 1078-1089	0.7	6

18	Stability of the dislocation substructure of α-titanium against deformation temperature variation in the range 4.2–293 K. *Acta Metallurgica Et Materialia*, **1994**, 42, 2603-2607		6
17	X-ray parameters of a nanocrystalline titanium microstructure, obtained via cryodeformation. *Low Temperature Physics*, **2016**, 42, 1175-1180	0.7	6
16	Low-Temperature feature of grain-boundary hardening of nanocrystalline titanium. *Low Temperature Physics*, **2019**, 45, 811-819	0.7	3
15	Instability of plastic deformation of nanocrystalline titanium at low temperatures. *Low Temperature Physics*, **2017**, 43, 1122-1124	0.7	3
14	Micromechanical properties of single crystals and polycrystals of pure α-titanium: anisotropy of microhardness, size effect, effect of the temperature (77–300 K). *Low Temperature Physics*, **2018**, 44, 73-80	0.7	2
13	Dislocation structure and fatigue crack growth in titanium alloy VT5-1ct at temperatures of 293-11 K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1993**, 165, 125-131	5.3	2
12	Microstructure anisotropy of nanocrystalline titanium produced by cryomechanical grain fragmentation. *Low Temperature Physics*, **2018**, 44, 444-450	0.7	2
11	Kinetics of low-temperature plasticity of nanocrystalline titanium. *Low Temperature Physics*, **2020**, 46, 646-649	0.7	1
10	Anisotropy of the yield strength and structural parameters of nanocrystalline titanium obtained by cryodeformation. *Low Temperature Physics*, **2017**, 43, 1427-1431	0.7	1
9	Fatigue-induced dislocation structure of titanium alloy VT5-1ct at temperatures of 293-11K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1993**, 165, 117-124	5.3	1
8	Thermally activated process in deformed alpha titanium. *European Physical Journal D*, **1988**, 38, 491-493		1
7	Substructure effect on low temperature plasticity of tungsten-rhenium alloys. *Scripta Metallurgica*, **1983**, 17, 751-754		1
6	An apparatus for determining Young's modulus of metals and alloys in the temperature range 4.2 to 300 K. *Cryogenics*, **1969**, 9, 283-285	1.8	1
5	Strength and ductility of titanium alloys at low temperatures. *Metal Science and Heat Treatment*, **1970**, 12, 464-466	0.6	1
4	An apparatus for metallographic studies between 4.2 and 300 K. *Cryogenics*, **1972**, 12, 134-135	1.8	1
3	Characteristics of plastic deformation of titanium at low temperatures. *Metal Science and Heat Treatment*, **1967**, 8, 830-833	0.6	1
2	Relationship Between Work-Hardening Rate and Dislocation Structure in Titanium Alloys at 4.2 to 373 K **1980**, 102-106		1
1	Thermal stability of nanocrystalline and ultrafine-grained titanium created by cryomechanical fragmentation. *Low Temperature Physics*, **2020**, 46, 951-957	0.7	0