

Victor I Tkatch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22 papers	283 citations	9 h-index	16 g-index
24 ext. papers	329 ext. citations	4.1 avg, IF	2.67 L-index

#	Paper	IF	Citations
22	The effect of transient nucleation behavior on thermal stability of Fe ₄₈ Co ₃₂ P ₁₄ B ₆ metallic glass. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159285	5.7	0
21	Fabrication of consolidated layered samples by high-pressure torsion processing of rapidly solidified Al-based ribbons with amorphous and crystalline structures. <i>Materials Today Communications</i> , 2020 , 24, 101080	2.5	1
20	A comparison of the transient behavior of nucleation in Fe ₄₀ Co ₄₀ P ₁₄ B ₆ and Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ metallic glasses. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153926	5.7	2
19	Correlation between parameters of Arrhenius-type temperature dependency for effective diffusivity governing glass crystallization. <i>Journal of Non-Crystalline Solids</i> , 2019 , 518, 36-42	3.9	3
18	Crystallization kinetics of the Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ metallic glass in an extended range of heating rates. <i>Journal of Materials Science</i> , 2019 , 54, 5788-5801	4.3	5
17	Analysis of the transient behavior of nucleation in the Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ glass. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 141-145	5.7	7
16	Identification of the onset crystallization time in metallic glasses at isothermal conditions. <i>Journal of Non-Crystalline Solids</i> , 2017 , 463, 102-107	3.9	6
15	Relation between the structural parameters of metallic glasses at the onset crystallization temperatures and threshold values of the effective diffusion coefficients. <i>Physics of Metals and Metallography</i> , 2017 , 118, 764-772	1.2	4
14	Nanocrystallization and thermal stability of the Fe ₄₅ Ni _{19.4} Co _{8.5} Cr _{5.7} Mo _{1.9} B ₁₄ Si _{5.5} amorphous alloy. <i>Journal of Non-Crystalline Solids</i> , 2015 , 430, 108-114	3.9	4
13	Estimation of diffusivity governing primary nanocrystallisation and its relation to thermal stability of amorphous phases. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2727-2733	3.9	8
12	Complex crystallization mode of amorphous/nanocrystalline composite Al ₈₆ Ni ₂ Co _{5.8} Gd _{5.7} Si _{0.5} . <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1628-1631	3.9	20
11	Effect of replacement of Ni by Co on thermal stability of Fe ₄₀ Co ₄₀ P ₁₄ B ₆ metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1344-1348	3.9	11
10	Nanocrystallization of Al-based glasses via nucleation and growth under soft impingement conditions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 1340-1343		3
9	Nanostructured Al ₈₆ Gd ₆ Ni ₆ Co ₂ bulk alloy produced by twist extrusion of amorphous melt-spun ribbons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 425, 172-177	5.3	20
8	Analytical description of isothermal primary crystallization kinetics of glasses: Fe ₈₅ B ₁₅ amorphous alloy. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 1658-1664	3.9	18
7	Thermal stability and saturation magnetization of a new series of amorphous Fe _{80-x} CoxP ₁₄ B ₆ (20≤x≤40) alloys. <i>Materials Letters</i> , 2004 , 58, 2988-2992	3.3	9
6	The effect of the melt-spinning processing parameters on the rate of cooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 323, 91-96	5.3	86

5	Delayed nucleation in Fe ₄₀ Co ₄₀ P ₁₄ B ₆ metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 337, 187-193	5.3	17
4	Processing and properties of soft magnetic Fe/ _{sub} 40/Co/ _{sub} 40/P/ _{sub} 14/B/ _{sub} 6/ amorphous alloy. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2278-2280	2	13
3	Preparation and Characterization of the Soft Magnetic FeCo-based Amorphous Alloy with Enhanced Magnetic Properties and Thermal Stability. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 644, 721		1
2	DIRECT MEASUREMENTS OF THE COOLING RATES IN THE SINGLE ROLLER RAPID SOLIDIFICATION TECHNIQUE. <i>Acta Materialia</i> , 1997 , 45, 2821-2826	8.4	36
1	Computer simulation of Fe ₈₀ B ₂₀ alloy solidification in the melt spinning process. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 2485-2491		9