# Victor I Tkatch

## List of Publications by Citations



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|---|---|---|---|
| 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 the melt-spinning processing parameters on the rate of cooling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 323, 91-96 | 5.3 | 86 |
| 21 | DIRECT MEASUREMENTS OF THE COOLING RATES IN THE SINGLE ROLLER RAPID SOLIDIFICATION TECHNIQUE. *Acta Materialia*, **1997**, 45, 2821-2826 | 8.4 | 36 |
| 20 | Complex crystallization mode of amorphous/nanocrystalline composite Al86Ni2Co5.8Gd5.7Si0.5. *Journal of Non-Crystalline Solids*, **2011**, 357, 1628-1631 | 3.9 | 20 |
| 19 | Nanostructured Al86Gd6Ni6Co2 bulk alloy produced by twist extrusion of amorphous melt-spun ribbons. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 425, 172-177 | 5.3 | 20 |
| 18 | Analytical description of isothermal primary crystallization kinetics of glasses: Fe85B15 amorphous alloy. *Journal of Non-Crystalline Solids*, **2005**, 351, 1658-1664 | 3.9 | 18 |
| 17 | Delayed nucleation in Fe40Co40P14B6 metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 337, 187-193 | 5.3 | 17 |
| 16 | Processing and properties of soft magnetic Fe/sub 40/Co/sub 40/P/sub 14/B/sub 6/ amorphous alloy. *IEEE Transactions on Magnetics*, **2001**, 37, 2278-2280 | 2 | 13 |
| 15 | Effect of replacement of Ni by Co on thermal stability of Fe40Co40P14B6 metallic glass. *Journal of Non-Crystalline Solids*, **2010**, 356, 1344-1348 | 3.9 | 11 |
| 14 | Thermal stability and saturation magnetization of a new series of amorphous Fe80−xCoxP14B6 (20⩽x⩽40) alloys. *Materials Letters*, **2004**, 58, 2988-2992 | 3.3 | 9 |
| 13 | Computer simulation of Fe80B20 alloy solidification in the melt spinning process. *Acta Metallurgica Et Materialia*, **1995**, 43, 2485-2491 | | 9 |
| 12 | Estimation of diffusivity governing primary nanocrystallisation and its relation to thermal stability of amorphous phases. *Journal of Non-Crystalline Solids*, **2012**, 358, 2727-2733 | 3.9 | 8 |
| 11 | Analysis of the transient behavior of nucleation in the Fe40Ni40P14B6 glass. *Journal of Alloys and Compounds*, **2018**, 744, 141-145 | 5.7 | 7 |
| 10 | Identification of the onset crystallization time in metallic glasses at isothermal conditions. *Journal of Non-Crystalline Solids*, **2017**, 463, 102-107 | 3.9 | 6 |
| 9 | Crystallization kinetics of the Fe40Ni40P14B6 metallic glass in an extended range of heating rates. *Journal of Materials Science*, **2019**, 54, 5788-5801 | 4.3 | 5 |
| 8 | Nanocrystallization and thermal stability of the Fe45Ni19.4Co8.5Cr5.7Mo1.9B14Si5.5 amorphous alloy. *Journal of Non-Crystalline Solids*, **2015**, 430, 108-114 | 3.9 | 4 |
| 7 | Relation between the structural parameters of metallic glasses at the onset crystallization temperatures and threshold values of the effective diffusion coefficients. *Physics of Metals and Metallography*, **2017**, 118, 764-772 | 1.2 | 4 |
| 6 | Correlation between parameters of Arrhenius-type temperature dependency for effective diffusivity governing glass crystallization. *Journal of Non-Crystalline Solids*, **2019**, 518, 36-42 | 3.9 | 3 |

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| 5 | Nanocrystallization of Al-based glasses via nucleation and growth under "soft impingement" conditions. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2010**, 7, 1340-1343 | | 3 |
| 4 | A comparison of the transient behavior of nucleation in Fe40Co40P14B6 and Fe40Ni40P14B6 metallic glasses. *Journal of Alloys and Compounds*, **2020**, 824, 153926 | 5.7 | 2 |
| 3 | Fabrication of consolidated layered samples by high-pressure torsion processing of rapidly solidified Al-based ribbons with amorphous and crystalline structures. *Materials Today Communications*, **2020**, 24, 101080 | 2.5 | 1 |
| 2 | Preparation and Characterization of the Soft Magnetic FeCo-based Amorphous Alloy with Enhanced Magnetic Properties and Thermal Stability. *Materials Research Society Symposia Proceedings*, **2000**, 644, 721 | | 1 |
| 1 | The effect of transient nucleation behavior on thermal stability of Fe48Co32P14B6 metallic glass. *Journal of Alloys and Compounds*, **2021**, 869, 159285 | 5.7 | 0 |