

Dmitry V Gunderov

List of Publications by Year in descending order

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papers

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32
all docs

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docs citations

32
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneously increasing the magnetization and coercivity of bulk nanocomposite magnets via severe plastic deformation. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	77
2	Nanostructuring of TiNi Alloy by SPD Processing for Advanced Properties. <i>Materials Transactions</i> , 2008, 49, 97-101.	1.2	68
3	Suppression of Ni ₄ Ti ₃ Precipitation by Grain Size Refinement in Ni-Rich NiTi Shape Memory Alloys. <i>Advanced Engineering Materials</i> , 2010, 12, 747-753.	3.5	60
4	Thermal cycling stability of ultrafine-grained TiNi shape memory alloys processed by equal channel angular pressing. <i>Scripta Materialia</i> , 2012, 67, 1-4.	5.2	39
5	The influence of defect structures on the mechanical properties of Ti-6Al-4V alloys deformed by high-pressure torsion at ambient temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 1-13.	5.6	38
6	Microstructure and martensitic transformation of an ultrafine-grained TiNiNb shape memory alloy processed by equal channel angular pressing. <i>Intermetallics</i> , 2014, 49, 81-86.	3.9	37
7	Microstructure and mechanical properties of Cu-graphene composites produced by two high pressure torsion procedures. <i>Materials Characterization</i> , 2020, 161, 110122.	4.4	28
8	Influence of HPT Deformation on the Structure and Properties of Amorphous Alloys. <i>Metals</i> , 2020, 10, 415.	2.3	25
9	Superelasticity and its stability of an ultrafine-grained Ti _{49.2} Ni _{50.8} shape memory alloy processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 61-64.	5.6	24
10	Transformation of the TiNi Alloy Microstructure and the Mechanical Properties Caused by Repeated B2-B19' Martensitic Transformations. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1230-1237.	2.9	22
11	Atomic-scale structural evolution in amorphous Nd ₉ Fe ₈₅ B ₆ subjected to severe plastic deformation at room temperature. <i>Applied Physics Letters</i> , 2009, 94, 231904.	3.3	21
12	Transformation hysteresis and shape memory effect of an ultrafine-grained TiNiNb shape memory alloy. <i>Intermetallics</i> , 2014, 54, 133-135.	3.9	20
13	Features of the mechanical behavior of ultrafine-grained and nanostructured TiNi alloys. <i>Materials Today: Proceedings</i> , 2017, 4, 4825-4829.	1.8	19
14	Bulk $\hat{1}\pm$ -Fe/Nd ₂ Fe ₁₄ B nanocomposite magnets produced by severe plastic deformation combined with thermal annealing. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	18
15	Effect of temperature on microstructural stabilization and mechanical properties in the dynamic testing of nanocrystalline pure Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 634, 64-70.	5.6	17
16	Phase evolution, microstructure and magnetic properties of bulk $\hat{1}\pm$ -Fe/Nd ₂ Fe ₁₄ B nanocomposite magnets prepared by severe plastic deformation and thermal annealing. <i>Journal of Alloys and Compounds</i> , 2015, 651, 434-439.	5.5	17
17	Stability of an Amorphous TiCuNi Alloy Subjected to High-Pressure Torsion at Different Temperatures. <i>Advanced Engineering Materials</i> , 2015, 17, 1728-1732.	3.5	16
18	Optimization of the Magnetic Properties of FePd Alloys by Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2010, 12, 708-713.	3.5	11

#	ARTICLE	IF	CITATIONS
19	Microstructural and Mechanical Stability of a Ti-50.8 at.% Ni Shape Memory Alloy Achieved by Thermal Cycling with a Large Number of Cycles. <i>Metals</i> , 2020, 10, 227.	2.3	10
20	Influence of HPT and Accumulative High-Pressure Torsion on the Structure and Hv of a Zirconium Alloy. <i>Metals</i> , 2021, 11, 573.	2.3	10
21	Influence of High-Pressure Torsion and Accumulative High-Pressure Torsion on Microstructure and Properties of Zr-Based Bulk Metallic Glass Vit105. <i>Metals</i> , 2020, 10, 1433.	2.3	9
22	Influence of alloying elements on the thermal stability of ultra-fine-grained Ni alloys. <i>Journal of Materials Science</i> , 2019, 54, 10506-10515.	3.7	6
23	Consolidation of the Amorphous Zr ₅₀ Cu ₅₀ Ribbons by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900694.	3.5	6
24	Study of micro indentation assisted deformation on HPT processed Zr ₆₂ Cu ₂₂ Al ₁₀ Fe ₅ Dy ₁ bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2021, 566, 120877.	3.1	5
25	Effect of Equal Channel Angular Pressing and Repeated Rolling on Structure, Phase Transformations and Properties of TiNi Shape Memory Alloys. <i>Materials Science Forum</i> , 0, , 539-544.	0.3	5
26	Effect of Post-Deformation Annealing on Structure and Properties of Nickel-Enriched Ti-Ni Shape Memory Alloy Deformed in Various Initially Deformation-Induced Structure States. <i>Crystals</i> , 2022, 12, 506.	2.2	5
27	Physical Simulation of Hot Rolling of Ultra-fine Grained Pure Titanium. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 2315-2326.	2.1	4
28	Devitrification of Zr ₅₅ Cu ₃₀ Al ₁₅ Ni ₅ Bulk Metallic Glass under Heating and HPT Deformation. <i>Metals</i> , 2020, 10, 1329.	2.3	4
29	Structure, phase transformations and properties of the TiNi-TiCu alloys subjected to high pressure torsion. <i>Materials Today: Proceedings</i> , 2017, 4, 4846-4850.	1.8	2
30	Transformation of the microstructure and properties of ultrafine-grained TiNi alloys during the processing by ECAP-conform via the isothermal regime. <i>MATEC Web of Conferences</i> , 2017, 129, 02038.	0.2	2
31	High density of shear bands in the Vitreloy bulk metallic glass subjected to high-pressure torsion. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 1008, 012031.	0.6	1
32	The Investigation of Mechanical and Functional Properties and Microstructural Features of Coarse-Grained SME Ti _{49.0} Ni _{51.0} Alloy during Multiple Martensitic Transformations and Annealing. <i>MATEC Web of Conferences</i> , 2021, 346, 02011.	0.2	0