

Alexander P Zhilyaev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	In Situ Heating Neutron and X-Ray Diffraction Analyses for Revealing Structural Evolution during Postprinting Treatments of Additive-Manufactured 316L Stainless Steel. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	8
2	Significance of grain refinement on micro-mechanical properties and structures of additively-manufactured CoCrFeNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 807, 140898.	5.6	59
3	Hardening of Additive Manufactured 316L Stainless Steel by Using Bimodal Powder Containing Nanoscale Fraction. <i>Materials</i> , 2021, 14, 115.	2.9	15
4	Atomistic Modeling of Grain Boundary Migration in Nickel. <i>Advanced Engineering Materials</i> , 2020, 22, 2000115.	3.5	3
5	Enhancement of pitting corrosion resistance for AA1050 processed by continuous closed die forging. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13185-13195.	5.8	3
6	Microstructural Evolution and Mechanical Properties of Ultrafine-Grained Ti Fabricated by Cryorolling and Subsequent Annealing. <i>Advanced Engineering Materials</i> , 2020, 22, 1901463.	3.5	8
7	The Effect of Pre-Annealing on the Evolution of the Microstructure and Mechanical Behavior of Aluminum Processed by a Novel SPD Method. <i>Materials</i> , 2020, 13, 2361.	2.9	6
8	Recent Development of Superplasticity in Aluminum Alloys: A Review. <i>Metals</i> , 2020, 10, 77.	2.3	42
9	Energy Stored during High Pressure Torsion of Pure Metals. <i>Letters on Materials</i> , 2019, 9, 142-146.	0.7	3
10	Gradient of strength and microstructure after deformation by free torsion of metal bar. <i>Letters on Materials</i> , 2019, 9, 571-576.	0.7	1
11	Novel Method of Severe Plastic Deformation - Continuous Closed Die Forging: CP Aluminum Case Study. <i>Defect and Diffusion Forum</i> , 2018, 385, 302-307.	0.4	4
12	Mechanical behavior and microstructure properties of titanium powder consolidated by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 498-504.	5.6	42
13	Using high-pressure torsion to process an aluminum-magnesium nanocomposite through diffusion bonding. <i>Journal of Materials Research</i> , 2016, 31, 88-99.	2.6	68
14	Evolution of microstructure in AZ91 alloy processed by high-pressure torsion. <i>Journal of Materials Science</i> , 2016, 51, 3380-3389.	3.7	37
15	A critical examination of pure tantalum processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 174-182.	5.6	46
16	Temperature and strain rate dependence of microstructural evolution and dynamic mechanical behavior in nanocrystalline Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 29-36.	5.6	12
17	Superplastic behaviour of AZ91 magnesium alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 637, 1-11.	5.6	68
18	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

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19	Rapid synthesis of an extra hard metal matrix nanocomposite at ambient temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 635, 109-117.	5.6	59
20	Effect of grain size on compressive behaviour of titanium at different strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 645, 311-317.	5.6	22
21	Reassessment of temperature increase and equivalent strain calculation during high-pressure torsion. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 63, 012052.	0.6	8
22	Dynamic compressive behavior of ultrafine-grained pure Ti at elevated temperatures after processing by ECAP. <i>Journal of Materials Science</i> , 2014, 49, 6640-6647.	3.7	14
23	Microstructure and texture evolution in ultrafine-grained pure Ti processed by equal-channel angular pressing with subsequent dynamic compression. <i>Scripta Materialia</i> , 2014, 77, 33-36.	5.2	19
24	Effect of annealing on wear resistance and electroconductivity of copper processed by high-pressure torsion. <i>Journal of Materials Science</i> , 2014, 49, 2270-2278.	3.7	16
25	Electron backscatter diffraction (EBSD) microstructure evolution in HPT copper annealed at a low temperature. <i>Journal of Materials Research and Technology</i> , 2014, 3, 338-343.	5.8	28
26	Evolution of hardness in ultrafine-grained metals processed by high-pressure torsion. <i>Journal of Materials Research and Technology</i> , 2014, 3, 311-318.	5.8	28
27	Long-term self-annealing of copper and aluminium processed by high-pressure torsion. <i>Journal of Materials Science</i> , 2014, 49, 6529-6535.	3.7	12
28	Recent developments in modelling of microhardness saturation during SPD processing of metals and alloys. <i>Journal of Materials Science</i> , 2013, 48, 4461-4466.	3.7	21
29	Wear resistance and electroconductivity in copper processed by severe plastic deformation. <i>Wear</i> , 2013, 305, 89-99.	3.1	100
30	Microhardness and EBSD microstructure mapping in partially-pressed al and cu through 90° ECAP die. <i>Materials Research</i> , 2013, 16, 586-591.	1.3	4
31	Microstructure and microtexture evolution in pure metals after ultra-high straining. <i>Journal of Materials Science</i> , 2012, 47, 7888-7893.	3.7	11
32	Bulk Nanostructured Metals for Innovative Applications. <i>Jom</i> , 2012, 64, 1134-1142.	1.9	106
33	Peak Stir Zone Temperatures during Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 631-640.	2.2	42
34	Phase Transformations During High-Pressure Torsion of Pure Zr and of a Zr-2.5%Nb Alloy. <i>Advanced Engineering Materials</i> , 2010, 12, 754-757.	3.5	13
35	Characteristics of the Transition from Grain-Boundary Sliding to Solute Drag Creep in Superplastic AA5083. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 50-64.	2.2	51
36	Cold Consolidation of Metal-Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , 2008, 18, 3293-3298.	14.9	31

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37	Using high-pressure torsion for metal processing: Fundamentals and applications. Progress in Materials Science, 2008, 53, 893-979.	32.8	2,579
38	Cellular and molecular interactions between MC3T3-E1 pre-osteoblasts and nanostructured titanium produced by high-pressure torsion. Biomaterials, 2007, 28, 3887-3895.	11.4	178
39	A microtexture investigation of recrystallization during friction stir processing of as-cast NiAl bronze. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2239-2251.	2.2	44
40	Ultrafine Grain Evolution in a Cu-Cr-Zr Alloy during Warm Multidirectional Forging. Materials Science Forum, 0, 783-786, 2683-2688.	0.3	0
41	Enhanced Plasticity of Pure Nickel Processed by HPT Consolidation of Rapid Quenched Ribbons. Materials Science Forum, 0, 838-839, 122-126.	0.3	0
42	Influence of Inhomogeneity on Mechanical Properties of Commercially Pure Titanium Processed by HPT. Defect and Diffusion Forum, 0, 385, 284-289.	0.4	3
43	Metallic Composites, Prepared by Deformation Processing. Materials Science Forum, 0, 1016, 1759-1764.	0.3	2