

Vladimir Stolyarov

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1246797/vladimir-stolyarov-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

115
papers

4,425
citations

31
h-index

65
g-index

117
ext. papers

4,697
ext. citations

2.5
avg, IF

5.35
L-index

#	Paper	IF	Citations
115	Features of the interaction of plastic deformation and pulse current in various materials. <i>Materials Letters</i> , 2021 , 299, 130049	3.3	1
114	Interlaminar fracture toughness of low curing temperature vinylester composites exposed to severe service conditions. <i>Materials Letters</i> , 2021 , 300, 130129	3.3	1
113	Electrically enhanced plasticity of duplex stainless steel UNS S32750. <i>Materials Letters</i> , 2021 , 304, 130680	3.3	3
112	Comparative Study of Cold Sintering Process and Autoclave Thermo-Vapor Treatment on a ZnO Sample. <i>Crystals</i> , 2021 , 11, 71	2.3	3
111	Mechanical Properties of VNS9-Sh TRIP Steel at Various Test Temperatures. <i>Russian Metallurgy (Metally)</i> , 2020 , 2020, 416-421	0.5	
110	Dielectric properties of nanocomposite ceramics Al ₂ O ₃ / graphene processed by spark plasma sintering. <i>Ceramics International</i> , 2020 , 46, 6920-6925	5.1	4
109	Influence of strain rate and strain at temperature on TRIP effect in a metastable austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 777, 139046	5.3	12
108	On the tensile behaviour of coarse and ultrafine grained NiTi. <i>Materials Characterization</i> , 2019 , 149, 41-53	5.9	8
107	Acousto-and electroplastic effects in alloy with reversible martensitic transformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 489, 012003	0.4	
106	Temperature dependence of the TRIP effect in a metastable austenitic stainless steel. <i>Letters on Materials</i> , 2019 , 9, 113-117	0.9	3
105	Effect of the Thermomechanical Compacting Conditions on the Electrical Conductivity of an Al ₂ O ₃ /Graphene Composite Material. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 1009-1014	0.5	
104	Friction and Wear of Al ₂ O ₃ + G Nanocomposite Produced via Spark Plasma Sintering. <i>Inorganic Materials</i> , 2019 , 55, 1490-1495	0.9	
103	Evolution of Physical and Mechanical Properties of Nanostructured Titanium upon Annealing. <i>Journal of Machinery Manufacture and Reliability</i> , 2019 , 48, 563-568	0.6	1
102	Microstructure Evolution and Mechanical Behavior in Shape Memory Nanostructured TiNi Alloy. <i>Defect and Diffusion Forum</i> , 2018 , 385, 169-174	0.7	2
101	Martensitic phase transformation in NiTi bi-crystals with symmetric $\alpha 5$ twist and tilt grain boundaries. <i>Letters on Materials</i> , 2018 , 8, 225-230	0.9	2
100	Ultrasonic Burnishing of Titanium Alloys. <i>Journal of Machinery Manufacture and Reliability</i> , 2018 , 47, 537-542	0.62	1
99	Features of the deformation behavior under pulse current and ultrasound in materials with phase transformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012048	0.4	1

98	Features of Electroplastic Effect in Alloys with Martensite Transformation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 1305-1310	2.5	8
97	Investigation of deformation behavior and fracture of ceramic coatings by the acoustic emission method. <i>Journal of Machinery Manufacture and Reliability</i> , 2017 , 46, 174-180	0.6	
96	Influence of Grain Size and Contact Temperature on the Tribological Behaviour of Shape Memory Ti49.3Ni50.7 Alloy. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	9
95	Structure and properties of Al ₂ O ₃ /Graphene nanocomposite processed by spark plasma sintering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 218, 012017	0.4	3
94	From Porous to Dense Nanostructured Ti alloys through High-Pressure Torsion. <i>Scientific Reports</i> , 2017 , 7, 13618	4.9	14
93	Influence of grain size and electric current regimes on deformation behavior under tension of shape memory alloy Ti 49,3 Ni 50,7. <i>Materials Today: Proceedings</i> , 2017 , 4, 4753-4757	1.4	2
92	Stress-dependent deformation behaviour in bulk nanocrystalline titanium–nickel alloys. <i>Materials Science and Technology</i> , 2016 , 32, 1200-1205	1.5	2
91	Suppression of trip effect in metastable steel by electrical current. <i>Letters on Materials</i> , 2016 , 6, 355-359	0.9	4
90	Electroplastic effect in nanocrystal and amorphous alloys. <i>Inorganic Materials</i> , 2016 , 52, 1541-1544	0.9	5
89	Structure and Martensitic Transformations in the Ti50.0Ni50.0 During Rolling with Current and without Current. <i>Materials Today: Proceedings</i> , 2015 , 2, S771-S774	1.4	
88	Strengthening and structure refinement of a Cu-TiNb composite superconductor upon rolling with current. <i>Journal of Machinery Manufacture and Reliability</i> , 2015 , 44, 372-377	0.6	
87	Role of structure refinement and electropulse current in the mechanical behavior of shape memory alloy. <i>Journal of Machinery Manufacture and Reliability</i> , 2015 , 44, 704-709	0.6	
86	Deformation Behavior of Ultrafine-Grained Materials Under Tension with Current. <i>Russian Physics Journal</i> , 2015 , 58, 803-807	0.7	1
85	Electroplastic effect in nanocrystalline and amorphous alloys. <i>Materials Science and Technology</i> , 2015 , 31, 1536-1540	1.5	10
84	Relaxation effect of pulse current on Ti50Ni50 structure during rolling. <i>Materials Science and Technology</i> , 2015 , 31, 1541-1544	1.5	3
83	Shape Memory Effects in TiNi-based Alloys Subjected to Electroplastic Rolling. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2391-2395	1.6	6
82	Structural and phase transformations in aluminum-copper alloys under the effect of electroplastic deformation. <i>Physics of Metals and Metallography</i> , 2014 , 115, 1221-1230	1.2	6
81	Deformability and structural features of shape memory TiNi alloys processed by rolling with current. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 579, 114-117	5.3	13

80	Influence of pulse current on deformation behavior during rolling and tension of TiNi alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S274-S276	5.7	7
79	Effect of pulsed current on structure of Al-Mg-Si aluminum-based alloy during cold deformation. <i>Physics of Metals and Metallography</i> , 2013 , 114, 940-946	1.2	2
78	Effect of pulse current on deformability, structure, and properties of NbTi alloy superconductor. <i>Journal of Machinery Manufacture and Reliability</i> , 2013 , 42, 325-330	0.6	4
77	Features of Electroplastic Deformation and Electropulse Treatment for TiNi Alloys. <i>Materials Science Forum</i> , 2013 , 738-739, 297-300	0.4	
76	Deformability and Shape Memory Properties in Ti50Ni50 Rolled with Electric Current. <i>Materials Science Forum</i> , 2013 , 738-739, 383-387	0.4	
75	Microstructure and Mechanical Properties of the SPD-Processed TiNi Alloys. <i>Materials Science Forum</i> , 2013 , 738-739, 486-490	0.4	12
74	Metastable Nanostructured Alloys Processed by Severe Plastic Deformation 2013 , 209-218		
73	Microstructural Evolution of Titanium Under Twist Extrusion 2013 , 43-46		7
72	Effect of rolling with shear technology on structure, properties, and plasticity of low-carbon steel. <i>Emerging Materials Research</i> , 2012 , 1, 121-126	1.4	3
71	Deformability and microhardness of large-grain titanium alloys in rolling with pulsed current. <i>Journal of Machinery Manufacture and Reliability</i> , 2012 , 41, 404-406	0.6	1
70	Effect of annealing modes after electroplastic deformation on the structure and microhardness of a TiNi alloy. <i>Metal Science and Heat Treatment</i> , 2012 , 53, 555-559	0.6	
69	Mechanical and Functional Properties of Titanium Alloys Processed by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2011 , 683, 137-148	0.4	2
68	Microstructure and Thermal Stability in CP Titanium Processed by Electroplastic Rolling. <i>Key Engineering Materials</i> , 2011 , 465, 215-218	0.4	1
67	Deformation and structure of a shape memory titanium alloy during electroplastic processing. <i>Russian Metallurgy (Metally)</i> , 2010 , 2010, 306-309	0.5	1
66	Effect of combined deformation on the structure and properties of copper and titanium alloys. <i>Russian Metallurgy (Metally)</i> , 2010 , 2010, 904-909	0.5	3
65	Bulk 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, 053901	2.5	15
64	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	3.4	21
63	Structure Refinement and Electropulse Current Effect on Mechanical Properties of Shape Memory TiNi Alloy. <i>Materials Science Forum</i> , 2009 , 633-634, 595-603	0.4	4

62	Deformability and nanostructuring of TiNi shape-memory alloys during electroplastic rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 503, 18-20	5.3	55
61	Investigation of the influence of the parameters of pulsed electric action upon deformation on the structure and functional properties of a Ti-Ni alloy with a shape-memory effect. <i>Physics of Metals and Metallography</i> , 2009 , 108, 616-624	1.2	4
60	Effect of Electroplastic Deformation on Martensitic Transformation in Coarse Grained and Ultrafine Grained Ni-Ti Shape Memory Alloy. <i>Materials Science Forum</i> , 2008 , 584-586, 127-132	0.4	1
59	Nanostructured Shape Memory TiNi Alloy Processed by Severe Electroplastic Deformation. <i>Materials Science Forum</i> , 2008 , 584-586, 507-512	0.4	9
58	Structure and Functional Properties of Ti-Ni-Based Shape Memory Alloy after Electroplastic Deformation. <i>Materials Science Forum</i> , 2008 , 584-586, 982-987	0.4	2
57	Nanocrystallization and magnetic properties of amorphous Nd ₉ Fe ₈₅ B ₆ subjected to high-pressure torsion deformation upon annealing. <i>Journal of Applied Physics</i> , 2008 , 104, 023912	2.5	30
56	Increase in the deformability of coarse-grained TiNi alloy rolled with superimposition of pulse current. <i>Metal Science and Heat Treatment</i> , 2008 , 50, 132-135	0.6	4
55	Influence of post-deformation on CP-Ti processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 476, 98-105	5.3	70
54	Structure and properties of TiNi-based alloys after equal-channel angular pressing and high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 481-482, 119-122	5.3	52
53	High-pressure-torsion deformation of melt-spun Nd ₉ Fe ₈₅ B ₆ alloy. <i>Physics of Metals and Metallography</i> , 2007 , 104, 238-247	1.2	18
52	Creation of submicrocrystalline structure and improvement of functional properties of shape memory alloys of the Ti-Ni-Fe system with the help of ECAP. <i>Metal Science and Heat Treatment</i> , 2007 , 49, 51-56	0.6	7
51	Impact toughness of nanostructured titanium. <i>Metal Science and Heat Treatment</i> , 2007 , 49, 57-60	0.6	2
50	Controllable nanocrystallization in amorphous Nd ₉ Fe ₈₅ B ₆ via combined application of severe plastic deformation and thermal annealing. <i>Applied Physics Letters</i> , 2007 , 91, 062509	3.4	52
49	Effect of High-Pressure Torsion Deformation and Subsequent Annealing on Structure and Magnetic Properties of Overquenched Melt-Spun Nd ₉ Fe ₈₅ B ₆ Alloy. <i>Journal of Iron and Steel Research International</i> , 2006 , 13, 160-165	1.2	17
48	Enhanced low-temperature impact toughness of nanostructured Ti. <i>Applied Physics Letters</i> , 2006 , 88, 041905	3.4	55
47	Effect of nanostructuring and rate of inducing deformation on the structural and thermomechanical characteristics of a titanium nickelide-based alloy. <i>Physics of Metals and Metallography</i> , 2006 , 102, 432-438	1.2	6
46	Nanostructured TiNi-based shape memory alloys processed by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 386-389	5.3	97
45	Alloy composition, deformation temperature, pressure and post-deformation annealing effects in severely deformed TiNi based shape memory alloys. <i>Acta Materialia</i> , 2005 , 53, 2703-2714	8.4	148

44	Corrosion resistance of ultra fine-grained Ti. <i>Scripta Materialia</i> , 2004 , 51, 225-229	5.6	351
43	Phase composition and microhardness of rapidly quenched AlBe alloys after high pressure torsion deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 888-893	5.3	28
42	Reduction of friction coefficient of ultrafine-grained CP titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 313-317	5.3	80
41	Effect of backpressure on structure and properties of AA5083 alloy processed by ECAP. <i>Journal of Alloys and Compounds</i> , 2004 , 378, 233-236	5.7	53
40	Microstructure of severely deformed metals determined by X-ray peak profile analysis. <i>Journal of Alloys and Compounds</i> , 2004 , 378, 248-252	5.7	68
39	Grain refinement and properties of pure Ti processed by warm ECAP and cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 343, 43-50	5.3	309
38	Ultrafine-grained Al8 wt.% Fe alloy processed by ECAP with backpressure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 357, 159-167	5.3	170
37	Phase transformation induced by severe plastic deformation in the AISI 304L stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 358, 32-36	5.3	47
36	Microstructures and mechanical properties of ultrafine-grained Ti foil processed by equal-channel angular pressing and cold rolling. <i>Journal of Materials Research</i> , 2003 , 18, 1011-1016	2.5	30
35	Novel Method for Diagnostic the Structural Transformations in Nanostructured Metals. <i>Solid State Phenomena</i> , 2003 , 94, 229-234	0.4	1
34	Thermomechanical Treatment of Ti-Ni-Based Shape Memory Alloys Using Severe Plastic Deformation. <i>Materials Science Forum</i> , 2003 , 426-432, 2765-2770	0.4	20
33	Effect of Deformation by High Pressure Torsion on the Phase Composition and Microhardness of Mechanically Alloyed and Rapidly Quenched AlBe Alloys. <i>Defect and Diffusion Forum</i> , 2003 , 216-217, 313-322	0.7	8
32	Effect of Backpressure on the Structure and Properties of Al-Based Alloys Processed by ECAP. <i>Materials Science Forum</i> , 2003 , 426-432, 2825-2830	0.4	1
31	Structure and properties of severely deformed Ti-Ni-based shape memory alloys. <i>European Physical Journal Special Topics</i> , 2003 , 112, 819-822		5
30	High coercive states in PrFeB ₂ Cu alloy processed by equal channel angular pressing. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 1399-1401	2.8	21
29	Superplastic behaviour of ultrafine-grained TiB ₂ Al ₃ V alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 323, 318-325	5.3	119
28	Composed Phases and Microhardness of Aluminium-Rich Aluminium-Iron Alloys Obtained by Rapid Quenching, Mechanical Alloying and High Pressure Torsion Deformation. <i>Materials Transactions</i> , 2002 , 43, 2031-2038	1.3	32
27	Low-temperature deformation and fracture of bulk nanostructural titanium obtained by intense plastic deformation using equal channel angular pressing. <i>Low Temperature Physics</i> , 2002 , 28, 864-874	0.7	20

26	Particularité de la structure et des transformations de phase dans les alliages à mémoire de forme à base de TiNi après déformation plastique intense. <i>Annales De Chimie: Science Des Materiaux</i> , 2002 , 27, 77-88	2.1	78
25	Mechanical behavior and superplasticity of a severe plastic deformation processed nanocrystalline Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 298, 44-50	5.3	128
24	Influence of ECAP routes on the microstructure and properties of pure Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 299, 59-67	5.3	381
23	The contribution of grain boundary dislocations to the plastic deformation of nanostructured titanium from the SD-effect of the yield stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 309-310, 524-527	5.3	28
22	Cyclic behavior of ultrafine-grain titanium produced by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 318, 163-173	5.3	171
21	Microstructure and properties of pure Ti processed by ECAP and cold extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 303, 82-89	5.3	258
20	The developing of nanostructured spd ti for structural use. <i>Scripta Materialia</i> , 2001 , 44, 1771-1774	5.6	50
19	Formation of nanostructure in rapidly solidified Al-Zr alloy by severe plastic deformation. <i>Scripta Materialia</i> , 2001 , 44, 1761-1764	5.6	17
18	Advanced mechanical properties of pure titanium with ultrafine grained structure. <i>Scripta Materialia</i> , 2001 , 45, 747-752	5.6	279
17	Microstructures and properties of ultrafine-grained pure titanium processed by equal-channel angular pressing and cold deformation. <i>Journal of Nanoscience and Nanotechnology</i> , 2001 , 1, 237-42	1.3	17
16	Processing nanocrystalline Ti and its nanocomposites from micrometer-sized Ti powder using high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 282, 78-85	5.3	112
15	Enhanced superplasticity in a Ti-6Al-4V alloy processed by severe plastic deformation. <i>Scripta Materialia</i> , 2000 , 43, 819-824	5.6	109
14	Bulk Nanostructured Metastable Alloys Prepared by Severe Plastic Deformation. <i>Materials Science Forum</i> , 1999 , 307, 185-190	0.4	2
13	Metastable states in R2Fe14B-based alloys processed by severe plastic deformation. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 166-168	2.8	19
12	A two step SPD processing of ultrafine-grained titanium. <i>Scripta Materialia</i> , 1999 , 11, 947-954		189
11	Formation of metastable states in nanostructured Al- and Ti-based alloys by the SPTS technique. <i>Scripta Materialia</i> , 1999 , 12, 923-926		10
10	Microstructure of Aluminum-Iron Alloys Subjected to Severe Plastic Deformation. <i>Scripta Materialia</i> , 1998 , 38, 1511-1516	5.6	80
9	Microstructure and microhardness of an Al-Fe alloy subjected to severe plastic deformation and aging. <i>Scripta Materialia</i> , 1998 , 10, 691-698		97

8	Structure evolution and changes in magnetic properties of severe plastic deformed Nd(Pr)FeB alloys during annealing. <i>Journal of Alloys and Compounds</i> , 1998 , 281, 69-71	5.7	33
7	Processing and Mechanical Properties of Nanocrystalline Alloys Prepared by Severe Plastic Deformation. <i>Materials Science Forum</i> , 1998 , 269-272, 969-974	0.4	12
6	Cyclic response of ultrafine-grained copper at constant plastic strain amplitude. <i>Scripta Materialia</i> , 1997 , 36, 1345-1351	5.6	78
5	Influence of severe plastic deformation on aging effect of Al-Zn-Mg-Cu-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 234-236, 339-342	5.3	41
4	Method of formation of a high coercivity state in PrFeBCu alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 33-34	2.8	10
3	High Coercive State in Submicrograined Highly Deformed Fe-Cr-Co Alloy. <i>Physica Status Solidi A</i> , 1992 , 129, 529-537		6
2	Effect of the hardening temperature on the structure and properties of magnetically hard FeCrCo alloy. <i>Metal Science and Heat Treatment</i> , 1991 , 33, 634-638	0.6	
1	The Amorphous Fe ₈₃ Nd ₁₃ B ₄ Alloy Crystallization Kinetics and High Coercivity State Formation. <i>Physica Status Solidi A</i> , 1989 , 112, 137-143		20