

Vladimir Stolyarov

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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	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
114	Corrosion resistance of ultra fine-grained Ti. <i>Scripta Materialia</i> , 2004 , 51, 225-229	5.6	351
113	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
112	Advanced mechanical properties of pure titanium with ultrafine grained structure. <i>Scripta Materialia</i> , 2001 , 45, 747-752	5.6	279
111	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
110	A two step SPD processing of ultrafine-grained titanium. <i>Scripta Materialia</i> , 1999 , 11, 947-954		189
109	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
108	Ultrafine-grained Al β 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
107	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
106	Mechanical behavior and superplasticity of a severe plastic deformation processed nanocrystalline Ti β Al β V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 298, 44-50	5.3	128
105	Superplastic behaviour of ultrafine-grained Ti β Al β V alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 323, 318-325	5.3	119
104	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
103	Enhanced superplasticity in a Ti-6Al-4V alloy processed by severe plastic deformation. <i>Scripta Materialia</i> , 2000 , 43, 819-824	5.6	109
102	Microstructure and microhardness of an Al β Fe alloy subjected to severe plastic deformation and aging. <i>Scripta Materialia</i> , 1998 , 10, 691-698		97
101	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
100	Microstructure of Aluminum-Iron Alloys Subjected to Severe Plastic Deformation. <i>Scripta Materialia</i> , 1998 , 38, 1511-1516	5.6	80
99	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

98	Cyclic response of ultrafine-grained copper at constant plastic strain amplitude. <i>Scripta Materialia</i> , 1997 , 36, 1345-1351	5.6	78
97	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
96	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
95	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
94	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
93	Enhanced low-temperature impact toughness of nanostructured Ti. <i>Applied Physics Letters</i> , 2006 , 88, 041905	3.4	55
92	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
91	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
90	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
89	The developing of nanostructured spd ti for structural use. <i>Scripta Materialia</i> , 2001 , 44, 1771-1774	5.6	50
88	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
87	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
86	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
85	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
84	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
83	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
82	Phase composition and microhardness of rapidly quenched AlFe 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
81	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

80	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
79	High coercive states in Pr ₈₅ Fe ₁₅ Ti alloy processed by equal channel angular pressing. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 1399-1401	2.8	21
78	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
77	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
76	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
75	Metastable states in R ₂ Fe ₁₄ B-based alloys processed by severe plastic deformation. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 166-168	2.8	19
74	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
73	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
72	Formation of nanostructure in rapidly solidified Al-Zr alloy by severe plastic deformation. <i>Scripta Materialia</i> , 2001 , 44, 1761-1764	5.6	17
71	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
70	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
69	From Porous to Dense Nanostructured Ti alloys through High-Pressure Torsion. <i>Scientific Reports</i> , 2017 , 7, 13618	4.9	14
68	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
67	Microstructure and Mechanical Properties of the SPD-Processed TiNi Alloys. <i>Materials Science Forum</i> , 2013 , 738-739, 486-490	0.4	12
66	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
65	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
64	Electroplastic effect in nanocrystalline and amorphous alloys. <i>Materials Science and Technology</i> , 2015 , 31, 1536-1540	1.5	10
63	Formation of metastable states in nanostructured Al- and Ti-based alloys by the SPTS technique. <i>Scripta Materialia</i> , 1999 , 12, 923-926		10

62	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
61	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
60	Nanostructured Shape Memory TiNi Alloy Processed by Severe Electroplastic Deformation. <i>Materials Science Forum</i> , 2008 , 584-586, 507-512	0.4	9
59	On the tensile behaviour of coarse and ultrafine grained NiTi. <i>Materials Characterization</i> , 2019 , 149, 41-53	3.9	8
58	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
57	Features of Electroplastic Effect in Alloys with Martensite Transformation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 1305-1310	2.5	8
56	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
55	Microstructural Evolution of Titanium Under Twist Extrusion 2013 , 43-46		7
54	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
53	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
52	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
51	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
50	High Coercive State in Submicrograined Highly Deformed Fe-Cr-Co Alloy. <i>Physica Status Solidi A</i> , 1992 , 129, 529-537		6
49	Structure and properties of severely deformed Ti-Ni-based shape memory alloys. <i>European Physical Journal Special Topics</i> , 2003 , 112, 819-822		5
48	Electroplastic effect in nanocrystal and amorphous alloys. <i>Inorganic Materials</i> , 2016 , 52, 1541-1544	0.9	5
47	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
46	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
45	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

44	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
43	Suppression of trip effect in metastable steel by electrical current. <i>Letters on Materials</i> , 2016 , 6, 355-359	0.9	4
42	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
41	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
40	Relaxation effect of pulse current on Ti ₅₀ Ni ₅₀ structure during rolling. <i>Materials Science and Technology</i> , 2015 , 31, 1541-1544	1.5	3
39	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
38	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
37	Temperature dependence of the TRIP effect in a metastable austenitic stainless steel. <i>Letters on Materials</i> , 2019 , 9, 113-117	0.9	3
36	Comparative Study of Cold Sintering Process and Autoclave Thermo-Vapor Treatment on a ZnO Sample. <i>Crystals</i> , 2021 , 11, 71	2.3	3
35	Stress-dependent deformation behaviour in bulk nanocrystalline titanium-nickel alloys. <i>Materials Science and Technology</i> , 2016 , 32, 1200-1205	1.5	2
34	Microstructure Evolution and Mechanical Behavior in Shape Memory Nanostructured TiNi Alloy. <i>Defect and Diffusion Forum</i> , 2018 , 385, 169-174	0.7	2
33	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
32	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
31	Mechanical and Functional Properties of Titanium Alloys Processed by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2011 , 683, 137-148	0.4	2
30	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
29	Impact toughness of nanostructured titanium. <i>Metal Science and Heat Treatment</i> , 2007 , 49, 57-60	0.6	2
28	Bulk Nanostructured Metastable Alloys Prepared by Severe Plastic Deformation. <i>Materials Science Forum</i> , 1999 , 307, 185-190	0.4	2
27	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

26	Deformation Behavior of Ultrafine-Grained Materials Under Tension with Current. <i>Russian Physics Journal</i> , 2015 , 58, 803-807	0.7	1
25	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
24	Microstructure and Thermal Stability in CP Titanium Processed by Electroplastic Rolling. <i>Key Engineering Materials</i> , 2011 , 465, 215-218	0.4	1
23	Deformation and structure of a shape memory titanium alloy during electroplastic processing. <i>Russian Metallurgy (Metally)</i> , 2010 , 2010, 306-309	0.5	1
22	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
21	Novel Method for Diagnostic the Structural Transformations in Nanostructured Metals. <i>Solid State Phenomena</i> , 2003 , 94, 229-234	0.4	1
20	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
19	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
18	Ultrasonic Burnishing of Titanium Alloys. <i>Journal of Machinery Manufacture and Reliability</i> , 2018 , 47, 537-542	0.6	1
17	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
16	Features of the interaction of plastic deformation and pulse current in various materials. <i>Materials Letters</i> , 2021 , 299, 130049	3.3	1
15	Interlaminar fracture toughness of low curing temperature vinylester composites exposed to severe service conditions. <i>Materials Letters</i> , 2021 , 300, 130129	3.3	1
14	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	
13	Acousto-and electroplastic effects in alloy with reversible martensitic transformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 489, 012003	0.4	
12	Mechanical Properties of VNS9-Sh TRIP Steel at Various Test Temperatures. <i>Russian Metallurgy (Metally)</i> , 2020 , 2020, 416-421	0.5	
11	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	
10	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	
9	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	

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| 8 | 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 |
| 7 | Features of Electroplastic Deformation and Electropulse Treatment for TiNi Alloys. <i>Materials Science Forum</i> , 2013 , 738-739, 297-300 | 0.4 |
| 6 | Deformability and Shape Memory Properties in Ti50Ni50 Rolled with Electric Current. <i>Materials Science Forum</i> , 2013 , 738-739, 383-387 | 0.4 |
| 5 | Metastable Nanostructured Alloys Processed by Severe Plastic Deformation 2013 , 209-218 | |
| 4 | 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 |
| 3 | 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 |
| 2 | 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 |
| 1 | Electrically enhanced plasticity of duplex stainless steel UNS S32750. <i>Materials Letters</i> , 2021 , 304, 130680-130683 | 0.3 |