

Vladislav Zadorozhnyy

List of Publications by Year in descending order

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64
papers

1,509
citations

304602

22
h-index

345118

36
g-index

65
all docs

65
docs citations

65
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition design, synthesis and hydrogen storage ability of multi-principal-component alloy TiVZrNbTa. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163638.	2.8	14
2	Enhanced Oxygen Evolution Reaction of Zr-Cu-Ni-Al Metallic Glass with an Oxide Layer in Alkaline Media. <i>ACS Catalysis</i> , 2022, 12, 9190-9200.	5.5	4
3	Structure and hydrogenation features of mechanically activated LaNi ₅ -type alloys. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13638-13646.	3.8	6
4	Mechanical spectroscopy of metal/polymer composite membranes for hydrogen separation. <i>Journal of Alloys and Compounds</i> , 2021, 866, 159014.	2.8	12
5	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. <i>Corrosion Science</i> , 2021, 193, 109880.	3.0	16
6	Review of the Recent Development in Metallic Glass and Its Composites. <i>Metals</i> , 2021, 11, 1933.	1.0	18
7	Evaluation of hydrogen storage performance of ZrTiVNiCrFe in electrochemical and gas-solid reactions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5347-5355.	3.8	40
8	Novel $\hat{1}\pm + \hat{1}^2$ Type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. <i>Metals</i> , 2020, 10, 34.	1.0	3
9	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. <i>Journal of Power Sources</i> , 2020, 475, 228700.	4.0	11
10	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. <i>Metals</i> , 2020, 10, 867.	1.0	10
11	Hydrogen storage performance of the multi-principal-component CoFeMnTiVZr alloy in electrochemical and gas-solid reactions. <i>RSC Advances</i> , 2020, 10, 24613-24623.	1.7	34
12	Mechanochemical synthesis and hydrogenation behavior of (TiFe) _{100-x} Ni _x alloys. <i>Journal of Alloys and Compounds</i> , 2019, 796, 42-46.	2.8	16
13	Hydrogen storage properties of TiFe-based ternary mechanical alloys with cobalt and niobium. A thermochemical approach. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29159-29165.	3.8	35
14	Investigation of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk amorphous alloy crystallization. <i>Journal of Alloys and Compounds</i> , 2019, 791, 477-482.	2.8	11
15	Structure and mechanical properties of Ti-Based alloys containing Ag subjected to a thermomechanical treatment. <i>Journal of Alloys and Compounds</i> , 2019, 781, 1182-1188.	2.8	5
16	Comparative microstructural and corrosion development of VCrNiCoFeCu equiatomic multicomponent alloy produced by induction melting and spark plasma sintering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 329, 012016.	0.3	1
17	Al-Ti ₂ O ₆ a mixed metal oxide based composite membrane: A unique membrane for removal of heavy metals. <i>Chemical Engineering Journal</i> , 2018, 348, 678-684.	6.6	90
18	Deposition of the Ti-Al coatings on different metallic substrates by mechanical alloying and subsequent laser treatment. <i>Journal of Alloys and Compounds</i> , 2018, 731, 1295-1302.	2.8	12

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19	Mechanical properties, electrochemical behavior and biocompatibility of the Ti-based low-alloys containing a minor fraction of noble metals. <i>Journal of Alloys and Compounds</i> , 2018, 732, 915-921.	2.8	11
20	Structure and Thermal Properties of an Al-Based Metallic Glass-Polymer Composite. <i>Metals</i> , 2018, 8, 1037.	1.0	8
21	Novel process for preparation of metal-polymer composite membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12146-12152.	3.8	27
22	Analysis of the Background Temperature During the Mechanical Alloying of Metal Powders in the Planetary Ball Mill. <i>Inorganic Materials: Applied Research</i> , 2018, 9, 559-565.	0.1	5
23	Synthesis of Ni-Ti Coatings on Different Metallic Substrates by Mechanical Alloying and Subsequent Laser Treatment. <i>Metals</i> , 2018, 8, 490.	1.0	0
24	Discrete element method simulations of mechanical plating of composite coatings on aluminum substrates. <i>Surface and Coatings Technology</i> , 2018, 349, 949-958.	2.2	12
25	Mechanical plating of Al/CNT composite coatings on aluminum substrates. <i>Journal of Alloys and Compounds</i> , 2017, 707, 238-244.	2.8	13
26	On room-temperature quasi-elastic mechanical behaviour of bulk metallic glasses. <i>Acta Materialia</i> , 2017, 129, 343-351.	3.8	43
27	Preparation and hydrogen storage properties of nanocrystalline TiFe synthesized by mechanical alloying. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 149-155.	1.8	55
28	Effect of mechanical activation on compactibility of metal hydride materials. <i>Journal of Alloys and Compounds</i> , 2017, 707, 214-219.	2.8	14
29	Investigation of structure and thermal properties in composite materials based on metallic glasses with small addition of polytetrafluoroethylene. <i>Journal of Alloys and Compounds</i> , 2017, 707, 264-268.	2.8	10
30	Electrochemical behavior and biocompatibility of Ti-Fe-Cu alloy with high strength and ductility. <i>Journal of Alloys and Compounds</i> , 2017, 707, 291-297.	2.8	22
31	Mechanical properties, structure, and biocompatibility of dual-axially forged Ti 94 Fe 3 Au 3 , Ti 94 Fe 3 Nb 3 , and Ti 94 Au 3 Nb 3 alloys. <i>Journal of Alloys and Compounds</i> , 2017, 707, 269-274.	2.8	6
32	Synthesis of the Ni-Al coatings on different metallic substrates by mechanical alloying and subsequent laser treatment. <i>Journal of Alloys and Compounds</i> , 2017, 707, 351-357.	2.8	31
33	Deposition of polymer coating on metallic powder through ball milling: Application to hydrogen storage intermetallics. <i>International Journal of Energy Research</i> , 2016, 40, 273-279.	2.2	23
34	Ti-Ag-Pd alloy with good mechanical properties and high potential for biological applications. <i>Scientific Reports</i> , 2016, 6, 25142.	1.6	17
35	Room-temperature dynamic quasi-elastic mechanical behavior of a Zr-Cu-Fe-Al bulk metallic glass. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 450-456.	0.8	7
36	Investigation of contact surfaces between polymer matrix and metallic glasses in composite materials based on high-density polyethylene. <i>Materials and Design</i> , 2016, 92, 306-312.	3.3	16

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37	Investigation of structureâ€mechanical properties relations of dual-axially forged Ti-based low-alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 632, 88-95.	2.6	12
38	Synthesis of the hydroxyapatite coatings on the Ti substrates by mechanical alloying. <i>Surface and Coatings Technology</i> , 2015, 281, 157-163.	2.2	18
39	Effect of iron content on the structure and mechanical properties of Al ₂₅ Ti ₂₅ Ni ₂₅ Cu ₂₅ and (AlTi) _{60-x} Ni ₂₀ Cu ₂₀ Fe _x (x=15, 20) high-entropy alloys. <i>Applied Surface Science</i> , 2015, 358, 549-555.	3.1	41
40	Mechanical alloying of nanocrystalline intermetallic compound TiFe doped with sulfur and magnesium. <i>Journal of Alloys and Compounds</i> , 2014, 615, S569-S572.	2.8	27
41	Evidence of the existence of two deformation stages in bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2014, 396-397, 20-24.	1.5	35
42	Formation of intermetallic Niâ€Al coatings by mechanical alloying on the different hardness substrates. <i>Journal of Alloys and Compounds</i> , 2014, 586, S373-S376.	2.8	43
43	Hydrogen sorption properties of nanostructured bulk Mg ₂ Ni intermetallic compound. <i>Journal of Alloys and Compounds</i> , 2014, 586, S400-S404.	2.8	27
44	Influence of cyclic loading on the onset of failure in a Zr-based bulk metallic glass. <i>Journal of Materials Science</i> , 2014, 49, 6716-6721.	1.7	11
45	Influence of composition and heat treatment on damping and magnetostrictive properties of Feâ€18%(Ga + Al) alloys. <i>Acta Materialia</i> , 2014, 78, 93-102.	3.8	45
46	Microstructural evolution and corrosion behavior of Al ₂₅ Ti ₂₅ Ga ₂₅ Be ₂₅ equimolar composition alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 691-695.	0.8	18
47	Experimental and theoretical study of Ti ₂₀ Zr ₂₀ Hf ₂₀ Nb ₂₀ X ₂₀ (X = V or Cr) refractory high-entropy alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 47, 131-138.	1.7	212
48	Tensile properties of a dual-axial forged Tiâ€Feâ€Cu alloy containing boron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 614, 238-242.	2.6	19
49	Mechanical alloying of nanocrystalline intermetallic compound TiFe doped by aluminum and chromium. <i>Journal of Alloys and Compounds</i> , 2014, 586, S56-S60.	2.8	61
50	Internal friction in a Niâ€Ti-based glassy-crystal alloy. <i>Journal of Alloys and Compounds</i> , 2013, 579, 633-637.	2.8	9
51	Formation of Intermetallic Ni-Al Coatings by Mechanical Alloying with Different Intensities. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1779-1784.	1.1	10
52	Investigation of transparent magnetic material formed by selective oxidation of a metallic glass. <i>Thin Solid Films</i> , 2013, 531, 471-475.	0.8	13
53	Investigation of the structure and mechanical properties of as-cast Ti-Cu-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 573, 175-182.	2.6	13
54	Pd ₄₀ Ni ₄₀ Si ₅ P ₁₅ bulk metallic glass properties variation as a function of sample thickness. <i>Intermetallics</i> , 2013, 33, 67-72.	1.8	13

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55	Formation and investigation of the structure and mechanical properties of bulk metallic glassy composite (Ti–Zr)–(Cu–Ni–Co) alloys. <i>Intermetallics</i> , 2012, 31, 173-176.	1.8	8
56	Ti-based nanostructured low-alloy with high strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 551, 82-86.	2.6	26
57	Atomic structure changes and phase transformation behavior in Pd–Si bulk glass-forming alloy. <i>Intermetallics</i> , 2012, 20, 135-140.	1.8	15
58	Hydrogen storage nanocrystalline TiFe intermetallic compound: Synthesis by mechanical alloying and compacting. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17131-17136.	3.8	65
59	Formation and investigation of the structure and mechanical properties of bulk metallic glassy composite (Ti–Zr)–(Cu–Ni–Co) alloys with the addition of Boron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 472-477.	2.6	6
60	Phase transformations in Zr-based bulk metallic glass cyclically loaded before plastic yielding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 358-362.	2.6	22
61	Coating of metals with intermetallics by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2011, 509, S507-S509.	2.8	38
62	Mechanochemical synthesis and hydrogen sorption properties of nanocrystalline TiFe. <i>Inorganic Materials</i> , 2011, 47, 1081-1086.	0.2	24
63	Relaxation and hysteresis internal friction in ultra-fine-grained copper at temperatures of up to 400°C. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011, 75, 1290-1299.	0.1	3
64	Production of intermetallic compound of FeTi by means of mechanical-chemical synthesis and its interaction with hydrogen. <i>Inorganic Materials: Applied Research</i> , 2010, 1, 41-45.	0.1	17