

Tomasz Czujko

List of Publications by Year in descending order

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91
papers

3,023
citations

185998

28
h-index

174990

52
g-index

91
all docs

91
docs citations

91
times ranked

2536
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium-based complex hydride mixtures synthesized from stainless steel and magnesium hydride with subambient temperature hydrogen absorption capability. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163489.	2.8	5
2	Superconducting Properties and Microstructure Changes after Heat Treatment of In Situ MgB ₂ Wires with Ex Situ MgB ₂ Barriers. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 1491-1497.	0.8	3
3	Mechanical and Electrical Properties of Epoxy Composites Modified by Functionalized Multiwalled Carbon Nanotubes. <i>Materials</i> , 2021, 14, 3325.	1.3	21
4	Influence of Amorphous Boron Grain Size, High Isostatic Pressure, Annealing Temperature, and Filling Density of Unreacted Material on Structure, Critical Parameters, n-Value, and Engineering Critical Current Density in MgB ₂ Wires. <i>Materials</i> , 2021, 14, 3600.	1.3	1
5	Effect of Heat Treatments under High Isostatic Pressure on the Transport Critical Current Density at 4.2 K and 20 K in Doped and Undoped MgB ₂ Wires. <i>Materials</i> , 2021, 14, 5152.	1.3	1
6	The significant influence of packing density of unreacted Mg+2B mixture and heat treatment conditions on some of critical parameters for MgB ₂ /Fe wires. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161665.	2.8	7
7	Microstructural characterization of laser-cladded NiCrAlY coatings on Inconel 625 Ni-based superalloy and 316L stainless steel. <i>Surface and Coatings Technology</i> , 2020, 387, 125317.	2.2	27
8	Mg ₂ (Fe, Cr, Ni)HX complex hydride synthesis from austenitic stainless steel and magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19440-19454.	3.8	16
9	Microstructure and Properties of Inconel 625 Fabricated Using Two Types of Laser Metal Deposition Methods. <i>Materials</i> , 2020, 13, 5050.	1.3	14
10	Nanostructured Anodic Copper Oxides as Catalysts in Electrochemical and Photoelectrochemical Reactions. <i>Catalysts</i> , 2020, 10, 1338.	1.6	25
11	Superelastic Behavior of Ti-Nb Alloys Obtained by the Laser Engineered Net Shaping (LENS) Technique. <i>Materials</i> , 2020, 13, 2827.	1.3	9
12	Superelastic Effect in NiTi Alloys Manufactured Using Electron Beam and Focused Laser Rapid Manufacturing Methods. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4463-4473.	1.2	28
13	Nanoporous Anodic Aluminum-Iron Oxide with a Tunable Band Gap Formed on the FeAl ₃ Intermetallic Phase. <i>Materials</i> , 2020, 13, 3471.	1.3	3
14	New Aspects of MgH ₂ Morphological and Structural Changes during High-Energy Ball Milling. <i>Materials</i> , 2020, 13, 4550.	1.3	10
15	Hydrogenation Ability of Mg-Li Alloys. <i>Energies</i> , 2020, 13, 2080.	1.6	8
16	Formation of Nanoporous Mixed Aluminum-Iron Oxides by Self-Organized Anodizing of FeAl ₃ Intermetallic Alloy. <i>Materials</i> , 2019, 12, 2299.	1.3	7
17	The Triballoy T-800 Coatings Deposited by Laser Engineered Net Shaping (LENSTM). <i>Materials</i> , 2019, 12, 1366.	1.3	19
18	Identification of Mechanical Properties for Titanium Alloy Ti-6Al-4V Produced Using LENS Technology. <i>Materials</i> , 2019, 12, 886.	1.3	18

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19	Static and Dynamic Loading Behavior of Ti6Al4V Honeycomb Structures Manufactured by Laser Engineered Net Shaping (LENSTM) Technology. <i>Materials</i> , 2019, 12, 1225.	1.3	46
20	The Characterization of Stress Corrosion Cracking in the AE44 Magnesium Casting Alloy Using Quantitative Fractography Methods. <i>Materials</i> , 2019, 12, 4125.	1.3	6
21	Fabrication and Characterization of Highly Porous FeAl-Based Intermetallics by Thermal Explosion Reaction. <i>Advanced Engineering Materials</i> , 2019, 21, 1801110.	1.6	12
22	Influence of the lamella structure and high isostatic pressure on the critical current density in in situ MgB ₂ wires without a barrier. <i>Journal of Alloys and Compounds</i> , 2019, 776, 636-645.	2.8	12
23	Investigation of oxide nanowires growth on copper via passivation in NaOH aqueous solution. <i>Surfaces and Interfaces</i> , 2019, 14, 15-18.	1.5	8
24	Deformation of honeycomb cellular structures manufactured with Laser Engineered Net Shaping (LENS) technology under quasi-static loading: Experimental testing and simulation. <i>Additive Manufacturing</i> , 2019, 25, 307-316.	1.7	46
25	Formation of nanoporous oxide by self-organized anodizing of FeAl intermetallic alloy in oxalic acid solution containing glycol. <i>Materials Letters</i> , 2018, 224, 9-12.	1.3	5
26	Fabrication of copper nanowires via electrodeposition in anodic aluminum oxide templates formed by combined hard anodizing and electrochemical barrier layer thinning. <i>Journal of Electroanalytical Chemistry</i> , 2018, 809, 59-66.	1.9	31
27	Severe Plastic Deformation of Fe-22Al-5Cr Alloy by Cross-Channel Extrusion with Back Pressure. <i>Materials</i> , 2018, 11, 2214.	1.3	8
28	The Microstructure Evolution of a Fe ₃ Al Alloy during the LENS Process. <i>Materials</i> , 2018, 11, 390.	1.3	6
29	The Effect of the Traverse Feed Rate on the Microstructure and Mechanical Properties of Laser Deposited Fe ₃ Al (Zr,B) Intermetallic Alloy. <i>Materials</i> , 2018, 11, 792.	1.3	5
30	The Application of Globular Water-Atomized Iron Powders for Additive Manufacturing by a LENS Technique. <i>Materials</i> , 2018, 11, 843.	1.3	8
31	Fabrication of highly porous TiAl ₃ intermetallics using titanium hydride as a reactant in the thermal explosion reaction. <i>Journal of Materials Research</i> , 2018, 33, 2680-2688.	1.2	5
32	The effect of He + irradiation on hardness and elastic modulus of Fe-Cr-40wt.% TiB ₂ composite rod designed for neutron absorbing. <i>Journal of Alloys and Compounds</i> , 2017, 711, 111-120.	2.8	11
33	Microstructures and hydrogen storage properties of La Ni Fe V Mn alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27154-27164.	3.8	65
34	Multi-axial forging of Fe ₃ Al-base intermetallic alloy and its mechanical properties. <i>Journal of Materials Science</i> , 2017, 52, 2902-2914.	1.7	20
35	Anodization of FeAl intermetallic alloys for bandgap tunable nanoporous mixed aluminum-iron oxide. <i>Journal of Electroanalytical Chemistry</i> , 2016, 771, 37-44.	1.9	20
36	Characterization of arrangement and geometry of porous anodic alumina formed by one-step anodization of Al-1 wt% Si thin films. <i>Surface and Coatings Technology</i> , 2016, 307, 359-365.	2.2	15

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37	The microstructure, mechanical properties and corrosion resistance of 316L stainless steel fabricated using laser engineered net shaping. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 677, 1-10.	2.6	356
38	Quantitative fast Fourier transform based arrangement analysis of porous anodic oxide formed by self-organized anodization of FeAl intermetallic alloy. <i>Materials Letters</i> , 2016, 164, 176-179.	1.3	13
39	A novel Fe-Cr-Nb matrix composite containing the TiB ₂ neutron absorber synthesized by mechanical alloying and final hot isostatic pressing (HIP) in the Ti-tubing. <i>Journal of Alloys and Compounds</i> , 2016, 674, 425-434.	2.8	6
40	Structure and properties of the Fe ₃ Al-type intermetallic alloy fabricated by laser engineered net shaping (LENS). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 374-381.	2.6	40
41	Mechanical and Thermal Dehydrogenation of the Mechano-Chemically Synthesized Calcium Alanate (Ca(AlH ₄) ₂) and Lithium Chloride (LiCl) Composite. <i>Materials</i> , 2015, 8, 3479-3490.	1.3	2
42	Evaluation of the Possibility of Applying Spatial 3D Imaging Using X-Ray Computed Tomography Reconstruction Methods for Quantitative Analysis of Multiphase Materials / Rentgenowska Analiza Ilościowa Materiałów Wielofazowych Z Wykorzystaniem Przestrzennego Obrazowania (3D) Przy Użyciu Metod Rekonstrukcji Tomografii Komputerowej. <i>Archives of Metallurgy and Materials</i> , 2015, 60, 2663-2670.	0.6	0
43	A comparative study of electrochemical barrier layer thinning for anodic aluminum oxide grown on technical purity aluminum. <i>Journal of Electroanalytical Chemistry</i> , 2015, 741, 80-86.	1.9	37
44	Hot isostatic pressing of multifilamentary MgB ₂ wires in solid state media for large scale application. <i>Superconductor Science and Technology</i> , 2015, 28, 045009.	1.8	17
45	Porous graded FeAl intermetallic foams fabricated by sintering process using NaCl space holders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 636, 407-414.	2.6	48
46	Characterization of Low-Symmetry Structures from Phase Equilibrium of Fe-Al System - Microstructures and Mechanical Properties. <i>Materials</i> , 2015, 8, 914-931.	1.3	75
47	The critical parameters in <i>in-situ</i> MgB ₂ wires and tapes with <i>ex-situ</i> MgB ₂ barrier after hot isostatic pressure, cold drawing, cold rolling and doping. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	19
48	Thin wall tubes with Fe ₃ Al/SS316L graded structure obtained by using laser engineered net shaping technology. <i>Materials & Design</i> , 2014, 63, 766-774.	5.1	89
49	Fast Fourier transform based arrangement analysis of poorly organized alumina nanopores formed via self-organized anodization in chromic acid. <i>Materials Letters</i> , 2014, 117, 69-73.	1.3	62
50	The effects of time and temperature on the arrangement of anodic aluminum oxide nanopores. <i>Materials Characterization</i> , 2014, 91, 1-9.	1.9	69
51	Fabrication and geometric characterization of highly-ordered hexagonally arranged arrays of nanoporous anodic alumina. <i>Polish Journal of Chemical Technology</i> , 2014, 16, 63-69.	0.3	17
52	The application of Pettifor structure maps to binary metal hydrides. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 398-405.	3.8	11
53	The kinetics of non-isothermal iron and aluminum powder mixtures sintering in protective atmosphere. <i>Journal of Alloys and Compounds</i> , 2013, 549, 92-99.	2.8	10
54	Composite behaviour of MgH ₂ and complex hydride mixtures synthesized by ball milling. <i>Journal of Alloys and Compounds</i> , 2011, 509, S604-S607.	2.8	10

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55	The influence of ball milling process on hydrogenation properties of MgH ₂ -FeTiH _x composites. Journal of Alloys and Compounds, 2011, 509, S608-S611.	2.8	14
56	Microstructure and hydrogen storage capacity of magnesium hydride with zirconium and niobium fluoride additives after cyclic loading. Journal of Alloys and Compounds, 2011, 509, S616-S620.	2.8	23
57	Iron fluorides assisted dehydrogenation and hydrogenation of MgH ₂ studied by Mössbauer spectroscopy. Journal of Alloys and Compounds, 2011, 509, 5368-5372.	2.8	11
58	A study of the ZrF ₄ , NbF ₅ , TaF ₅ , and TiCl ₃ influences on the MgH ₂ sorption properties. International Journal of Hydrogen Energy, 2011, 36, 12909-12917.	3.8	115
59	The role of Mg ₂ FeH ₆ formation on the hydrogenation properties of MgH ₂ -Fe _x composites. Open Chemistry, 2011, 9, 701-705.	1.0	1
60	A new nanonickel catalyst for hydrogen storage in solid-state magnesium hydrides. International Journal of Hydrogen Energy, 2011, 36, 1159-1166.	3.8	53
61	The effects of nanonickel additive on the decomposition of complex metal hydride LiAlH ₄ (lithium) Tj ETQq1 1 0.784314 rgBT /Overlook	3.8	47
62	The composites of magnesium hydride and iron-titanium intermetallic. International Journal of Hydrogen Energy, 2011, 36, 1177-1183.	3.8	18
63	Nanostructured Hydrides for Solid State Hydrogen Storage for Vehicular Applications. Progress in Green Energy, 2011, , 223-286.	0.0	0
64	Catalytic effect of halide additives ball milled with magnesium hydride. International Journal of Hydrogen Energy, 2010, 35, 1706-1712.	3.8	170
65	Nanonickel Catalyst for Kinetic Destabilization of LiAlH ₄ (Lithium Alanate) for Facile Discharge of Hydrogen. Advances in Science and Technology, 2010, 72, 182-187.	0.2	1
66	The effect of ball milling under hydrogen and argon on the desorption properties of MgH ₂ covered with a layer of Mg(OH) ₂ . Journal of Alloys and Compounds, 2010, 493, L29-L32.	2.8	26
67	Nanomaterials for Hydrogen Storage Produced by Ball Milling. Canadian Metallurgical Quarterly, 2009, 48, 11-25.	0.4	9
68	Thermal stability of Vale Inco nanonometric nickel as a catalytic additive for magnesium hydride (MgH ₂). International Journal of Hydrogen Energy, 2009, 34, 8603-8610.	3.8	29
69	Synthesis of nanocomposite hydrides for solid-state hydrogen storage by controlled mechanical milling techniques. Journal of Alloys and Compounds, 2009, 483, 252-255.	2.8	28
70	Nanomaterials for Solid State Hydrogen Storage. Fuel Cells and Hydrogen Energy, 2009, , .	0.6	170
71	Mechanochemical Activation and Synthesis of Nanomaterials for Hydrogen Storage and Conversion in Electrochemical Power Sources. Journal of Nanoscience and Nanotechnology, 2009, 9, 4048-4055.	0.9	3
72	Synthesis and hydrogen desorption properties of nanocomposite magnesium hydride with sodium borohydride (MgH ₂ +NaBH ₄). Journal of Alloys and Compounds, 2007, 427, 291-299.	2.8	51

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73	Catalytic effects of various forms of nickel on the synthesis rate and hydrogen desorption properties of nanocrystalline magnesium hydride (MgH ₂) synthesized by controlled reactive mechanical milling (CRMM). <i>Journal of Alloys and Compounds</i> , 2007, 432, 217-231.	2.8	60
74	Mechanochemical synthesis of nanostructured chemical hydrides in hydrogen alloying mills. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 743-746.	2.8	33
75	Hydrogen desorption properties of MgH ₂ nanocomposites with nano-oxides and Inco micrometric- and nanometric-Ni. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 63-66.	2.8	38
76	Mechano-chemical activation synthesis (MCAS) of nanocrystalline magnesium alanate hydride [Mg(AlH ₄) ₂] and its hydrogen desorption properties. <i>Journal of Alloys and Compounds</i> , 2007, 439, 302-311.	2.8	39
77	Particle size, grain size and ¹³ C-MgH ₂ effects on the desorption properties of nanocrystalline commercial magnesium hydride processed by controlled mechanical milling. <i>Nanotechnology</i> , 2006, 17, 3856-3865.	1.3	220
78	Investigation of the hydrogen desorption properties of Mg+10wt.%X (X=V, Y, Zr) submicrocrystalline composites. <i>Journal of Alloys and Compounds</i> , 2006, 414, 240-247.	2.8	81
79	Particle size effects on the desorption properties of nanostructured magnesium dihydride (MgH ₂) synthesized by controlled reactive mechanical milling (CRMM). <i>Journal of Alloys and Compounds</i> , 2006, 424, 356-364.	2.8	132
80	Mechanosynthesis of Nanocrystalline Mg₂; Ceramic Powders in Hydrogen Alloying Mills via Amorphous Hydride Intermediate. <i>Advances in Science and Technology</i> , 2006, 45, 309.	0.2	1
81	Feasibility study of the direct mechano-chemical synthesis of nanostructured magnesium tetrahydroaluminate (alanate) [Mg(AlH ₄) ₂] complex hydride. <i>Nanotechnology</i> , 2005, 16, 2261-2274.	1.3	26
82	Processing by controlled mechanical milling of nanocomposite powders Mg + X (X = Co, Cr, Mo, V, Y,) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.8	21
83	Microstructural evolution during controlled ball milling of (Mg ₂ Ni+MgNi ₂) intermetallic alloy. <i>Journal of Alloys and Compounds</i> , 2003, 350, 332-339.	2.8	33
84	The effect of MgNi ₂ intermetallic compound on nanostructurization and amorphization of Mgâ€“Ni alloys processed by controlled mechanical milling. <i>Journal of Alloys and Compounds</i> , 2003, 354, 281-295.	2.8	29
85	Overview of processing of nanocrystalline hydrogen storage intermetallics by mechanical alloying/milling. <i>Materials and Manufacturing Processes</i> , 2002, 17, 129-156.	2.7	38
86	The effect of atomic volume on the hydrogen storage capacity of hexagonal metals/intermetallics. <i>Scripta Materialia</i> , 2002, 46, 531-535.	2.6	10
87	Cold-work induced phenomena in B2 FeAl intermetallics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 329-331, 213-221.	2.6	21
88	Fracture toughness of intermetallic compacts consolidated from nanocrystalline powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 300, 1-11.	2.6	28
89	Quantitative measurements of the chemical composition of unprepared samples, using a reflectron mass analyzer with a microchannelplate detector assembly. <i>Review of Scientific Instruments</i> , 2000, 71, 1425-1428.	0.6	6
90	Structural and mechanical properties of CO₂â€“laser welded joints in difficultâ€“weld metals. <i>Welding International</i> , 1996, 10, 257-261.	0.3	3

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91	Applications of cluster analysis in the quantitative estimation of similarities in geometrical characteristics of grains in polycrystalline materials. <i>Materials Characterization</i> , 1994, 32, 105-118.	1.9	3