

Mateusz Balcerzak

List of Publications by Year in descending order

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31
papers

512
citations

687363

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31
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial Films Based on MOF Composites that Release Iodine Passively or Upon Triggering by Near-Infrared Light. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	23
2	Mg-Based System for H_2 Sorption from CH_4/H_2 Gas Mixture. <i>Energy Technology</i> , 2021, 9, 2001079.	3.8	3
3	Influence of carbon catalysts on the improvement of hydrogen storage properties in a body-centered cubic solid solution alloy. <i>Carbon</i> , 2021, 182, 422-434.	10.3	9
4	Review and outlook on high-entropy alloys for hydrogen storage. <i>Energy and Environmental Science</i> , 2021, 14, 5191-5227.	30.8	114
5	Hydrogenation properties of nanocrystalline Ti-V-Mn body-centered-cubic alloys. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15521-15529.	7.1	13
6	Effect of Cr on the hydrogen storage and electronic properties of BCC alloys: Experimental and first-principles study. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28996-29008.	7.1	21
7	Effect of Substitutional Elements on the Thermodynamic and Electrochemical Properties of Mechanically Alloyed $La_{1.5}Mg_{0.5}Ni_{7-x}M_x$ alloys (M = Al, Mn). <i>Metals</i> , 2020, 10, 578.	2.3	6
8	Mechanochemical Synthesis of (Co,Cu,Mg,Ni,Zn)O High-Entropy Oxide and Its Physicochemical Properties. <i>Journal of Electronic Materials</i> , 2019, 48, 7105-7113.	2.2	21
9	Structural, Electrochemical and Hydrogen Sorption Studies of Nanocrystalline Ti-V-Co and Ti-V-Ni-Co Alloys Synthesized by Mechanical Alloying Method. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4838-4844.	2.5	5
10	Effect of Ni on electrochemical and hydrogen storage properties of V-rich body-centered-cubic solid solution alloys. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8395-8403.	7.1	11
11	Hydrogen storage and electrochemical properties of mechanically alloyed $La_{1.5-x}Gd_xMg_{0.5}Ni_7$ ($0 \leq x \leq 1.5$). <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8897-8906.	7.1	27
12	The Influence of Pr and Nd Substitution on Hydrogen Storage Properties of Mechanically Alloyed (La,Mg) $_{2}Ni_7$ -Type Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6166-6174.	2.5	3
13	The phase transformation and electrochemical properties of TiNi alloys with Cu substitution: Experiments and first-principle calculations. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1444-1450.	7.1	15
14	Hydrogenation and electrochemical studies of $La-Mg-Ni$ alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1436-1443.	7.1	50
15	Structure and hydrogen storage properties of mechanically alloyed Ti-V alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23698-23707.	7.1	48
16	Effect of Ni content on the structure and hydrogenation property of mechanically alloyed TiMgNi $_x$ ternary alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23751-23758.	7.1	6
17	TiNi-Based Hydrogen Storage Alloys and Compounds. , 2017, , 149-177.		0
18	Hydrogenation study of nanostructured Ti-Zr-Ni alloys. <i>Journal of Energy Storage</i> , 2016, 8, 6-11.	8.1	9

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19	Structural and electrochemical hydrogen storage properties of MgTiNi _x (x=0.1, 0.5, 1, 2) alloys prepared by ball milling. International Journal of Hydrogen Energy, 2016, 41, 11761-11766.	7.1	25
20	Electrochemical and structural studies on Ti-Zr-Ni and Ti-Zr-Ni-Pd alloys and composites. Journal of Alloys and Compounds, 2016, 658, 576-587.	5.5	17
21	Dielectric and magnetic properties of (Bi _{1-x} La _x FeO ₃) _{0.5} (PbTiO ₃) _{0.5} ceramics prepared by high energy mechanochemical technique. Journal of Electroceramics, 2015, 35, 33-44.	2.0	9
22	Effect of multi-walled carbon nanotubes and palladium addition on the microstructural and electrochemical properties of the nanocrystalline Ti ₂ Ni alloy. International Journal of Hydrogen Energy, 2015, 40, 3288-3299.	7.1	15
23	Hydrogenation properties of nanostructured Ti ₂ Ni-based alloys and nanocomposites. Journal of Power Sources, 2015, 280, 435-445.	7.8	26
24	Influence of Gaseous Activation on Hydrogen Sorption Properties of TiNi and Ti ₂ Ni Alloys. Journal of Materials Engineering and Performance, 2015, 24, 1710-1717.	2.5	7
25	Adsorption of dimeric surfactants in lamellar silicates. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 108-115.	1.4	3
26	Effect Of Hot Pressing On The Electrochemical Properties Of Ti-Ni Alloy. Archives of Metallurgy and Materials, 2015, 60, 1335-1340.	0.6	2
27	The Influence of Chemical Modification by Silver on Hydrogen Storage Properties of Nanocrystalline Ti ₂ Ni Alloy. Acta Physica Polonica A, 2014, 126, 892-894.	0.5	1
28	Electric Conductivity of (Bi _{1-x} La _x FeO ₃) _{0.5} (PbTiO ₃) _{0.5} Ceramics Obtained from Mechanosynthesized Nanopowders. Acta Physica Polonica A, 2014, 126, 971-974.	0.5	1
29	XRD and Raman spectroscopy studies of (Bi _{1-x} La _x FeO ₃) _{0.5} (PbTiO ₃) _{0.5} solid solution. Phase Transitions, 2014, 87, 909-921.	0.5	1
30	Electrochemical and Corrosion Behavior of Nanocrystalline TiNi-Based Alloys and Composite. Acta Physica Polonica A, 2014, 126, 888-891.	0.5	1
31	Electrochemical behavior of nanocrystalline TiNi doped by MWCNTs and Pd. Renewable Energy, 2014, 62, 432-438.	8.9	16