Mateusz Balcerzak

List of Publications by Year
in descending order

31 papers	512 citations	777949 13 h-index	759306 22 g-index
31 all docs	31 docs citations	31 times ranked	406 citing authors

#	Article	IF	Citations
1	Review and outlook on high-entropy alloys for hydrogen storage. Energy and Environmental Science, 2021, 14, 5191-5227.	15.6	114
2	Hydrogenation and electrochemical studies of Laâ€“Mgâ€“Ni alloys. International Journal of Hydrogen Energy, 2017, 42, 1436-1443.	3.8	50
3	Structure and hydrogen storage properties of mechanically alloyed Ti-V alloys. International Journal of Hydrogen Energy, 2017, 42, 23698-23707.	3.8	48
4	Hydrogen storage and electrochemical properties of mechanically alloyed La1.5-xGdxMg0.5Ni7 (0Ââ‰ÂxÂâ‰Â1.5). International Journal of Hydrogen Energy, 2018, 43, 8897-8906.	3.8	27
5	Hydrogenation properties of nanostructured Ti2Ni-based alloys and nanocomposites. Journal of Power Sources, 2015, 280, 435-445.	4.0	26
6	Structural and electrochemical hydrogen storage properties of MgTiNix (xÂ=Â0.1, 0.5, 1, 2) alloys prepared by ball milling. International Journal of Hydrogen Energy, 2016, 41, 11761-11766.	3.8	25
7	Antibacterial Films Based on MOF Composites that Release Iodine Passively or Upon Triggering by Nearâ€Infrared Light. Advanced Functional Materials, 2022, 32, .	7.8	23
8	Mechanochemical Synthesis of (Co,Cu,Mg,Ni,Zn)O High-Entropy Oxide and Its Physicochemical Properties. Journal of Electronic Materials, 2019, 48, 7105-7113.	1.0	21
9	Effect of Cr on the hydrogen storage and electronic properties of BCC alloys: Experimental and first-principles study. International Journal of Hydrogen Energy, 2020, 45, 28996-29008.	3.8	21
10	Electrochemical and structural studies on Tiâ€“Zrâ€“Ni and Tiâ€“Zrâ€“Niâ€“Pd alloys and composites. Journal of Alloys and Compounds, 2016, 658, 576-587.	2.8	17
11	Electrochemical behavior of nanocrystalline TiNi doped by MWCNTs and Pd. Renewable Energy, 2014, 62, 432-438.	4.3	16
12	Effect of multi-walled carbon nanotubes and palladium addition on the microstructural and electrochemical properties of the nanocrystalline Ti2Ni alloy. International Journal of Hydrogen Energy, 2015, 40, 3288-3299.	3.8	15
13	The phase transformation and electrochemical properties of TiNi alloys with Cu substitution: Experiments and first-principle calculations. International Journal of Hydrogen Energy, 2017, 42, 1444-1450.	3.8	15
14	Hydrogenation properties of nanocrystalline Ti V Mn body-centered-cubic alloys. International Journal of Hydrogen Energy, 2020, 45, 15521-15529.	3.8	13
15	Effect of Ni on electrochemical and hydrogen storage properties of V-rich body-centered-cubic solid solution alloys. International Journal of Hydrogen Energy, 2018, 43, 8395-8403.	3.8	11
16	Dielectric and magnetic properties of (Bi1-xLaxFeO3)0.5(PbTiO3)0.5 ceramics prepared by high energy mechanochemical technique. Journal of Electroceramics, 2015, 35, 33-44.	0.8	9
17	Hydrogenation study of nanostructured Ti-Zr-Ni alloys. Journal of Energy Storage, 2016, 8, 6-11.	3.9	9
18	Influence of carbon catalysts on the improvement of hydrogen storage properties in a body-centered cubic solid solution alloy. Carbon, 2021, 182, 422-434.	5.4	9

#	Article	IF	Citations
19	Influence of Gaseous Activation on Hydrogen Sorption Properties of TiNi and Ti2Ni Alloys. Journal of Materials Engineering and Performance, 2015, 24, 1710-1717.	1.2	7
20	Effect of Ni content on the structure and hydrogenation property of mechanically alloyed TiMgNi x ternary alloys. International Journal of Hydrogen Energy, 2017, 42, 23751-23758.	3.8	6
21	Effect of Substitutional Elements on the Thermodynamic and Electrochemical Properties of Mechanically Alloyed La1.5Mg0.5Ni7âˆ'xMx alloys (M = Al, Mn). Metals, 2020, 10, 578.	1.0	6
22	XRD and Raman spectroscopy studies of (Bi_{1â€“<i>x</i>}La<i>_x</i>FeO₃)_{0.5}(PbTiO₃)_{0.5} solid solution. Phase Transitions, 2014, 87, 909-921.	0.6	5
23	Structural, Electrochemical and Hydrogen Sorption Studies of Nanocrystalline Ti-V-Co and Ti-V-Ni-Co Alloys Synthesized by Mechanical Alloying Method. Journal of Materials Engineering and Performance, 2019, 28, 4838-4844.	1.2	5
24	Adsorption of dimeric surfactants in lamellar silicates. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 108-115.	0.6	3
25	The Influence of Pr and Nd Substitution on Hydrogen Storage Properties of Mechanically Alloyed (La,Mg)2Ni7-Type Alloys. Journal of Materials Engineering and Performance, 2018, 27, 6166-6174.	1.2	3
26	Mgâ€Based System for H₂ Sorption from CH₄/H₂ Gas Mixture. Energy Technology, 2021, 9, 2001079.	1.8	3
27	Effect Of Hot Pressing On The Electrochemical Properties Of Ti-Ni Alloy. Archives of Metallurgy and Materials, 2015, 60, 1335-1340.	0.6	2
28	The Influence of Chemical Modification by Silver on Hydrogen Storage Properties of Nanocrystalline Ti2Ni Alloy. Acta Physica Polonica A, 2014, 126, 892-894.	0.2	1
29	Electric Conductivity of (Bi_{1-x}La_xFeO₃)_{0.5}(PbTiO₃)_{0.5}Ceramics Obtained from Mechanosynthesized Nanopowders. Acta Physica Polonica A, 2014, 126, 971-974.	0.2	1
30	Electrochemical and Corrosion Behavior of Nanocrystalline TiNi-Based Alloys and Composite. Acta Physica Polonica A, 2014, 126, 888-891.	0.2	1
31	TiNi-Based Hydrogen Storage Alloys and Compounds. , 2017, , 149-177.		0