

# Mateusz Balcerzak

## List of Publications by Year in descending order

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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	Antibacterial Films Based on MOF Composites that Release Iodine Passively or Upon Triggering by Near-Infrared Light. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	23
2	Mg-Based System for H <sub>2</sub> Sorption from CH <sub>4</sub> /H <sub>2</sub> Gas Mixture. <i>Energy Technology</i> , 2021, 9, 2001079.	1.8	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.	5.4	9
4	Review and outlook on high-entropy alloys for hydrogen storage. <i>Energy and Environmental Science</i> , 2021, 14, 5191-5227.	15.6	114
5	Hydrogenation properties of nanocrystalline Ti-V-Mn body-centered-cubic alloys. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15521-15529.	3.8	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.	3.8	21
7	Effect of Substitutional Elements on the Thermodynamic and Electrochemical Properties of Mechanically Alloyed La <sub>1.5</sub> Mg <sub>0.5</sub> Ni <sub>7-x</sub> M <sub>x</sub> alloys (M = Al, Mn). <i>Metals</i> , 2020, 10, 578.	1.0	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.	1.0	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.	1.2	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.	3.8	11
11	Hydrogen storage and electrochemical properties of mechanically alloyed La <sub>1.5-x</sub> Gd <sub>x</sub> Mg <sub>0.5</sub> Ni <sub>7</sub> (0 ≤ x ≤ 1.5). <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8897-8906.	3.8	27
12	The Influence of Pr and Nd Substitution on Hydrogen Storage Properties of Mechanically Alloyed (La,Mg) <sub>2</sub> Ni <sub>7</sub> -Type Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6166-6174.	1.2	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.	3.8	15
14	Hydrogenation and electrochemical studies of La-Mg-Ni alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1436-1443.	3.8	50
15	Structure and hydrogen storage properties of mechanically alloyed Ti-V alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23698-23707.	3.8	48
16	Effect of Ni content on the structure and hydrogenation property of mechanically alloyed TiMgNi <sub>x</sub> ternary alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23751-23758.	3.8	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.	3.9	9

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19	Structural and electrochemical hydrogen storage properties of MgTiNi <sub>x</sub> (x=0.1, 0.5, 1, 2) alloys prepared by ball milling. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11761-11766.	3.8	25
20	Electrochemical and structural studies on TiZrNi and TiZrNiPd alloys and composites. <i>Journal of Alloys and Compounds</i> , 2016, 658, 576-587.	2.8	17
21	Dielectric and magnetic properties of (Bi <sub>1-x</sub> La <sub>x</sub> FeO <sub>3</sub> ) <sub>0.5</sub> (PbTiO <sub>3</sub> ) <sub>0.5</sub> ceramics prepared by high energy mechanochemical technique. <i>Journal of Electroceramics</i> , 2015, 35, 33-44.	0.8	9
22	Effect of multi-walled carbon nanotubes and palladium addition on the microstructural and electrochemical properties of the nanocrystalline Ti <sub>2</sub> Ni alloy. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3288-3299.	3.8	15
23	Hydrogenation properties of nanostructured Ti <sub>2</sub> Ni-based alloys and nanocomposites. <i>Journal of Power Sources</i> , 2015, 280, 435-445.	4.0	26
24	Influence of Gaseous Activation on Hydrogen Sorption Properties of TiNi and Ti <sub>2</sub> Ni Alloys. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1710-1717.	1.2	7
25	Adsorption of dimeric surfactants in lamellar silicates. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 364, 108-115.	0.6	3
26	Effect Of Hot Pressing On The Electrochemical Properties Of Ti-Ni Alloy. <i>Archives of Metallurgy and Materials</i> , 2015, 60, 1335-1340.	0.6	2
27	The Influence of Chemical Modification by Silver on Hydrogen Storage Properties of Nanocrystalline Ti <sub>2</sub> Ni Alloy. <i>Acta Physica Polonica A</i> , 2014, 126, 892-894.	0.2	1
28	Electric Conductivity of (Bi <sub>1-x</sub> La <sub>x</sub> FeO <sub>3</sub> ) <sub>0.5</sub> (PbTiO <sub>3</sub> ) <sub>0.5</sub> Ceramics Obtained from Mechanothesized Nanopowders. <i>Acta Physica Polonica A</i> , 2014, 126, 971-974.		1
29	XRD and Raman spectroscopy studies of (Bi <sub>1-x</sub> La <sub>x</sub> FeO <sub>3</sub> ) <sub>0.5</sub> (PbTiO <sub>3</sub> ) <sub>0.5</sub> solid solution. <i>Phase Transitions</i> , 2014, 87, 909-921.		0.5
30	Electrochemical and Corrosion Behavior of Nanocrystalline TiNi-Based Alloys and Composite. <i>Acta Physica Polonica A</i> , 2014, 126, 888-891.	0.2	1
31	Electrochemical behavior of nanocrystalline TiNi doped by MWCNTs and Pd. <i>Renewable Energy</i> , 2014, 62, 432-438.	4.3	16