

Mateusz Balcerzak

List of Publications by Year in descending order

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31
papers

512
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687363

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31
docs citations

31
times ranked

370
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Review and outlook on high-entropy alloys for hydrogen storage. Energy and Environmental Science, 2021, 14, 5191-5227. | 30.8 | 114 |
| 2 | Hydrogenation and electrochemical studies of La-Mg-Ni alloys. International Journal of Hydrogen Energy, 2017, 42, 1436-1443. | 7.1 | 50 |
| 3 | Structure and hydrogen storage properties of mechanically alloyed Ti-V alloys. International Journal of Hydrogen Energy, 2017, 42, 23698-23707. | 7.1 | 48 |
| 4 | Hydrogen storage and electrochemical properties of mechanically alloyed La _{1.5} -xGdxMg _{0.5} Ni ₇ (0 ≤ x ≤ 1.5). International Journal of Hydrogen Energy, 2018, 43, 8897-8906. | 7.1 | 27 |
| 5 | Hydrogenation properties of nanostructured Ti ₂ Ni-based alloys and nanocomposites. Journal of Power Sources, 2015, 280, 435-445. | 7.8 | 26 |
| 6 | Structural and electrochemical hydrogen storage properties of MgTiNix (x = 0.1, 0.5, 1, 2) alloys prepared by ball milling. International Journal of Hydrogen Energy, 2016, 41, 11761-11766. | 7.1 | 25 |
| 7 | Antibacterial Films Based on MOF Composites that Release Iodine Passively or Upon Triggering by Near-Infrared Light. Advanced Functional Materials, 2022, 32, . | 14.9 | 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. | 2.2 | 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. | 7.1 | 21 |
| 10 | 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 |
| 11 | Electrochemical behavior of nanocrystalline TiNi doped by MWCNTs and Pd. Renewable Energy, 2014, 62, 432-438. | 8.9 | 16 |
| 12 | 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 |
| 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. | 7.1 | 15 |
| 14 | Hydrogenation properties of nanocrystalline Ti V Mn body-centered-cubic alloys. International Journal of Hydrogen Energy, 2020, 45, 15521-15529. | 7.1 | 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. | 7.1 | 11 |
| 16 | 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 |
| 17 | Hydrogenation study of nanostructured Ti-Zr-Ni alloys. Journal of Energy Storage, 2016, 8, 6-11. | 8.1 | 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. | 10.3 | 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. | 2.5 | 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. | 7.1 | 6 |
| 21 | Effect of Substitutional Elements on the Thermodynamic and Electrochemical Properties of Mechanically Alloyed La _{1.5} Mg _{0.5} Ni ₇₋₈ xMx alloys (M = Al, Mn). Metals, 2020, 10, 578. | 2.3 | 6 |
| 22 | XRD and Raman spectroscopy studies of (Bi _{1-x} La _x)FeO ₃ (x = 0.5) (PbTiO ₃) _{0.5} solid solution. Phase Transitions, 2014, 87, 909-921. | 0.5 | 0 |
| 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. | 2.5 | 5 |
| 24 | Adsorption of dimeric surfactants in lamellar silicates. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 108-115. | 1.4 | 3 |
| 25 | The Influence of Pr and Nd Substitution on Hydrogen Storage Properties of Mechanically Alloyed (La,Mg) ₂ Ni ₇ -Type Alloys. Journal of Materials Engineering and Performance, 2018, 27, 6166-6174. | 2.5 | 3 |
| 26 | Mg ₂ Al ₃ Based System for H ₂ Sorption from CH ₄ /H ₂ Gas Mixture. Energy Technology, 2021, 9, 2001079. | 3.8 | 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 Ti ₂ Ni Alloy. Acta Physica Polonica A, 2014, 126, 892-894. | 0.5 | 1 |
| 29 | Electric Conductivity of (Bi _{1-x} La _x)FeO ₃ (x = 0.5) (PbTiO ₃) _{0.5} Ceramics Obtained from Mechano-synthesized Nanopowders. Acta Physica Polonica A, 2014, 126, 971-974. | 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 | TiNi-Based Hydrogen Storage Alloys and Compounds. , 2017, , 149-177. | | 0 |