

Jacques Huot

List of Publications by Citations

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129
papers

5,943
citations

37
h-index

74
g-index

136
ext. papers

6,770
ext. citations

5
avg, IF

5.96
L-index

| # | Paper | IF | Citations |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 129 | Catalytic effect of transition metals on hydrogen sorption in nanocrystalline ball milled MgH ₂ /M (M=Ti, V, Mn, Fe and Ni) systems. <i>Journal of Alloys and Compounds</i> , 1999 , 292, 247-252 | 5.7 | 858 |
| 128 | Structural study and hydrogen sorption kinetics of ball-milled magnesium hydride. <i>Journal of Alloys and Compounds</i> , 1999 , 293-295, 495-500 | 5.7 | 560 |
| 127 | Mechanochemical synthesis of hydrogen storage materials. <i>Progress in Materials Science</i> , 2013 , 58, 30-75 | 4.2 | 294 |
| 126 | Hydrogen storage properties of the mechanically milled MgH ₂ /V nanocomposite. <i>Journal of Alloys and Compounds</i> , 1999 , 291, 295-299 | 5.7 | 275 |
| 125 | Mechanically alloyed metal hydride systems. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, 187-195 | 2.6 | 225 |
| 124 | Review of magnesium hydride-based materials: development and optimisation. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1 | 2.6 | 212 |
| 123 | Hydrogen cycling of niobium and vanadium catalyzed nanostructured magnesium. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14348-54 | 16.4 | 196 |
| 122 | Hydriding behavior of Mg/Al and leached Mg/Al compounds prepared by high-energy ball-milling. <i>Journal of Alloys and Compounds</i> , 2000 , 297, 282-293 | 5.7 | 142 |
| 121 | Mg-based compounds for hydrogen and energy storage. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1 | 2.6 | 121 |
| 120 | Recent developments in the applications of nanocrystalline materials to hydrogen technologies. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 267, 240-245 | 5.3 | 112 |
| 119 | Direct synthesis of Mg ₂ FeH ₆ by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 1998 , 280, 306-309 | 5.7 | 107 |
| 118 | Preparation of the hydrides Mg ₂ FeH ₆ and Mg ₂ CoH ₅ by mechanical alloying followed by sintering. <i>Journal of Alloys and Compounds</i> , 1997 , 248, 164-167 | 5.7 | 105 |
| 117 | Hydrogen storage properties of the mechanically alloyed LaNi ₅ -based materials. <i>Journal of Alloys and Compounds</i> , 2001 , 320, 133-139 | 5.7 | 102 |
| 116 | Mechanical alloying of MgNi compounds under hydrogen and inert atmosphere. <i>Journal of Alloys and Compounds</i> , 1995 , 231, 815-819 | 5.7 | 101 |
| 115 | Properties of mechanically alloyed Mg ₂ Ni ₃ ternary hydrogen storage alloys for Ni-MH batteries. <i>Journal of Power Sources</i> , 2002 , 112, 547-556 | 8.9 | 84 |
| 114 | Activation characteristics of graphite modified hydrogen absorbing materials. <i>Journal of Alloys and Compounds</i> , 2001 , 325, 245-251 | 5.7 | 82 |
| 113 | Rapid activation, enhanced hydrogen sorption kinetics and air resistance in laminated Mg/Bd 2.5at.%. <i>Journal of Alloys and Compounds</i> , 2007 , 439, L5-L7 | 5.7 | 79 |

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| 112 | Nanoscale Grain Refinement and H-Sorption Properties of MgH ₂ Processed by High-Pressure Torsion and Other Mechanical Routes. <i>Advanced Engineering Materials</i> , 2010 , 12, 786-792 | 3.5 | 70 |
| 111 | Influence of cycling on the thermodynamic and structure properties of nanocrystalline magnesium based hydride. <i>Journal of Alloys and Compounds</i> , 2000 , 305, 264-271 | 5.7 | 70 |
| 110 | Structure of nanocomposite metal hydrides. <i>Journal of Alloys and Compounds</i> , 2002 , 330-332, 727-731 | 5.7 | 66 |
| 109 | Study of the activation process of Mg-based hydrogen storage materials modified by graphite and other carbonaceous compounds. <i>Journal of Materials Research</i> , 2001 , 16, 2893-2905 | 2.5 | 64 |
| 108 | Study of Mg ₆ Pd alloy synthesized by cold rolling. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 147-151 | 5.7 | 63 |
| 107 | Hydrogen storage in bulk Mg/Ti and Mg/In stainless steel multilayer composites synthesized via accumulative roll-bonding (ARB). <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3022-3036 | 6.7 | 55 |
| 106 | Hydrogenation characteristics of air-exposed magnesium films. <i>Journal of Alloys and Compounds</i> , 2002 , 345, 158-166 | 5.7 | 55 |
| 105 | Mechanically driven crystallization of amorphous MgNi alloy during prolonged milling: applications in NiMH batteries. <i>Journal of Alloys and Compounds</i> , 2002 , 339, 195-201 | 5.7 | 53 |
| 104 | A new approach to the processing of metal hydrides. <i>Journal of Alloys and Compounds</i> , 2011 , 509, L18-L27 | 5.7 | 51 |
| 103 | Crystal structure, phase abundance and electrode performance of Laves phase compounds (Zr, A)V _{0.5} Ni _{1.1} Mn _{0.2} Fe _{0.2} (A = Ti, Nb or Hf). <i>Journal of Alloys and Compounds</i> , 1995 , 218, 101-109 | 5.7 | 50 |
| 102 | Application of Severe Plastic Deformation Techniques to Magnesium for Enhanced Hydrogen Sorption Properties. <i>Metals</i> , 2012 , 2, 329-343 | 2.3 | 47 |
| 101 | Nanostructured MgH ₂ prepared by cold rolling and cold forging. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S444-S448 | 5.7 | 47 |
| 100 | Hydrogenation improvement of TiFe by adding ZrMn ₂ . <i>Energy</i> , 2017 , 138, 375-382 | 7.9 | 46 |
| 99 | Effect of Zr, Ni and Zr 7 Ni 10 alloy on hydrogen storage characteristics of TiFe alloy. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16921-16927 | 6.7 | 45 |
| 98 | Effect of cold rolling on hydrogen sorption properties of die-cast and as-cast magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 520, 287-294 | 5.7 | 45 |
| 97 | Hydrogen storage properties of Ti _{0.95} FeZr _{0.05} , TiFe _{0.95} Zr _{0.05} and TiFeZr _{0.05} alloys. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22128-22133 | 6.7 | 44 |
| 96 | Mechanochemistry of Metal Hydrides: Recent Advances. <i>Materials</i> , 2019 , 12, | 3.5 | 41 |
| 95 | Crystal structure of multiphase alloys (Zr,Ti)(Mn,V) ₂ . <i>Journal of Alloys and Compounds</i> , 1995 , 231, 85-89 | 5.7 | 40 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 94 | Crystal structure and phase composition of alloys $Zr_{1-x}Ti_x(Mn_{1-y}V_y)_2$. <i>Journal of Alloys and Compounds</i> , 1995 , 228, 181-187 | 5.7 | 40 |
| 93 | Reactivity during cycling of nanocrystalline Mg-based hydrogen storage compounds. <i>International Journal of Hydrogen Energy</i> , 2002 , 27, 909-913 | 6.7 | 37 |
| 92 | Formation of the Ternary Complex Hydride Mg_2FeH_6 from Magnesium Hydride (MgH_2) and Iron: An Electron Microscopy and Energy-Loss Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25701-25714 | 3.8 | 36 |
| 91 | Hydrogenation properties of TiFe with $Zr_{7Ni_{10}}$ alloy as additive. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 375-380 | 5.7 | 35 |
| 90 | Synthesis, phase transformation, and hydrogen storage properties of ball-milled $Ti_{0.9}Mn_{1.1}$. <i>Journal of Alloys and Compounds</i> , 2008 , 453, 203-209 | 5.7 | 33 |
| 89 | Effects of equal-channel angular pressing and accumulative roll-bonding on hydrogen storage properties of a commercial ZK60 magnesium alloy. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16971-16976 | 6.7 | 32 |
| 88 | Influence of the evaporation rate and the evaporation mode on the hydrogen sorption kinetics of air-exposed magnesium films. <i>Thin Solid Films</i> , 2006 , 496, 683-687 | 2.2 | 32 |
| 87 | Analysis of hydrogen storage performance of metal hydride reactor with phase change materials. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28893-28908 | 6.7 | 31 |
| 86 | Nanostructured Mg_2Ni materials prepared by cold rolling and used as negative electrode for NiMH batteries. <i>Journal of Power Sources</i> , 2008 , 185, 566-569 | 8.9 | 30 |
| 85 | Mechanical activation of air exposed $TiFe_{1-x}Zr_x$ wt% Zr alloy for hydrogenation by cold rolling and ball milling. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20795-20800 | 6.7 | 30 |
| 84 | Nanocrystalline Metal Hydrides Obtained by Severe Plastic Deformations. <i>Metals</i> , 2012 , 2, 22-40 | 2.3 | 29 |
| 83 | Effect of air contamination on ball milling and cold rolling of magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2011 , 509, L175-L179 | 5.7 | 28 |
| 82 | Hydrogenation Properties of TiFe Doped with Zirconium. <i>Materials</i> , 2015 , 8, 7864-7872 | 3.5 | 27 |
| 81 | Synthesis and hydrogen storage behavior of $Mg_{50}Al_{10}Cr_{10}Ni$ high entropy alloys. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2351-2361 | 6.7 | 27 |
| 80 | Effect of annealing on microstructure and hydrogenation properties of $TiFe + X$ wt% Zr ($X = 4, 8$). <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6238-6243 | 6.7 | 26 |
| 79 | Hydrogen sorption properties of $TiCr$ alloys synthesized by ball milling and cold rolling. <i>Intermetallics</i> , 2010 , 18, 140-144 | 3.5 | 26 |
| 78 | Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022 , 10, 163-256 | 7.4 | 26 |
| 77 | Hydrogen storage properties of cold rolled magnesium hydrides with oxides catalysts. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 33-38 | 5.7 | 24 |

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| 76 | Effect of ball milling and cryomilling on the microstructure and first hydrogenation properties of TiFe+4 wt.% Zr alloy. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 1828-1834 | 5.5 | 22 |
| 75 | Hydrogen storage in filed magnesium. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 586-594 | 5.7 | 22 |
| 74 | The role of morphology and severe plastic deformation on the hydrogen storage properties of magnesium. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12778-12783 | 6.7 | 21 |
| 73 | MgH ₂ + FeNb nanocomposites for hydrogen storage. <i>Materials Chemistry and Physics</i> , 2014 , 147, 557-562 | 4.4 | 21 |
| 72 | Hydrogenation rate limiting step, diffusion and thermal conductivity in cold rolled magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 116-120 | 5.7 | 21 |
| 71 | Addition of catalysts to magnesium hydride by means of cold rolling. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 290-295 | 5.7 | 21 |
| 70 | Microstructure and first hydrogenation properties of TiFe alloy with Zr and Mn as additives. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 787-797 | 6.7 | 21 |
| 69 | Synthesis and hydrogen sorption properties of TiV(2x)Mnx BCC alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 624, 247-250 | 5.7 | 20 |
| 68 | Hydrogen sorption enhancement in cold rolled LaNi ₅ . <i>Journal of Alloys and Compounds</i> , 2014 , 595, 22-27 | 5.7 | 20 |
| 67 | H-sorption properties and structural evolution of Mg processed by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S187-S191 | 5.7 | 19 |
| 66 | Crystal structure and hydrogen storage properties of body centered cubic 52Ti ₂ V ₃ B ₆ Cr alloy doped with Zr ₇ Ni ₁₀ . <i>Journal of Alloys and Compounds</i> , 2014 , 607, 251-257 | 5.7 | 19 |
| 65 | Effect of ball milling and cold rolling on hydrogen storage properties of nanocrystalline TiV _{1.6} Mn _{0.4} alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 154-158 | 5.7 | 19 |
| 64 | MgH ₂ as dopant for improved activation of commercial Mg ingot. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 364-369 | 5.7 | 18 |
| 63 | First hydrogenation enhancement in TiFe alloys for hydrogen storage. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 375303 | 3 | 18 |
| 62 | Hydrogen storage in TiCr _{1.2} (FeV) _x BCC solid solutions. <i>Journal of Alloys and Compounds</i> , 2009 , 472, 247-251 | 5.7 | 18 |
| 61 | Hydrogen storage in TiMn(FeV) BCC alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 5-8 | 5.7 | 18 |
| 60 | First hydrogenation kinetics of Zr and Mn doped TiFe alloy after air exposure and reactivation by mechanical treatment. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 11625-11631 | 6.7 | 16 |
| 59 | Selection of phase change materials, metal foams and geometries for improving metal hydride performance. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14922-14939 | 6.7 | 16 |

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| 58 | Hydrogen storage properties of MgH ₂ processed by cold forging. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S719-S724 | 5.7 | 16 |
| 57 | Effect of Magnesium Fluoride on Hydrogenation Properties of Magnesium Hydride. <i>Energies</i> , 2015 , 8, 12546-12556 | 3.1 | 16 |
| 56 | Phase transformation in magnesium hydride induced by ball milling. <i>European Journal of Control</i> , 2006 , 31, 135-144 | 2.5 | 16 |
| 55 | Effect of cooling rate on the microstructure and hydrogen storage properties of TiFe with 4 wt% Zr as an additive. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 5623-5630 | 5.5 | 15 |
| 54 | Enhanced hydrogen storage properties of 2LiNH ₂ /MgH ₂ through the addition of Mg(BH ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2017 , 704, 44-50 | 5.7 | 14 |
| 53 | First Hydrogenation Enhancement in TiFe Alloys for Hydrogen Storage Doped with Yttrium. <i>Metals</i> , 2019 , 9, 242 | 2.3 | 14 |
| 52 | Effect of Cold Rolling on Metal Hydrides. <i>Materials Transactions</i> , 2019 , 60, 1571-1576 | 1.3 | 14 |
| 51 | Nanostructure development in refractory metals: ECAP processing of Niobium and Tantalum using indirect-extrusion technique. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 79, 1-9 | 4.1 | 14 |
| 50 | Effect of doping and particle size on hydrogen absorption properties of BCC solid solution 52Ti-12V-36Cr. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11523-11527 | 6.7 | 13 |
| 49 | Synthesis, characterization and hydrogen sorption properties of a Body Centered Cubic 42Ti-1V-17Cr alloy doped with Zr7Ni10. <i>Journal of Alloys and Compounds</i> , 2015 , 620, 101-108 | 5.7 | 13 |
| 48 | Effect of cold rolling and ball milling on first hydrogenation of Ti _{0.5} Zr _{0.5} (Mn _{1-x} Fe _x) Cr ₁ , x = 0, 0.2, 0.4. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 912-920 | 5.7 | 13 |
| 47 | Investigation of Effect of Milling Atmosphere and Starting Composition on Mg ₂ FeH ₆ Formation. <i>Metals</i> , 2014 , 4, 388-400 | 2.3 | 12 |
| 46 | Effect of Al presence and synthesis method on phase composition of the hydrogen absorbing LaMgNi-based compounds. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30135-30144 | 6.7 | 12 |
| 45 | Magnesium-Nickel alloy for hydrogen storage produced by melt spinning followed by cold rolling. <i>Materials Research</i> , 2012 , 15, 813-817 | 1.5 | 12 |
| 44 | Low temperature rolling of AZ91 alloy for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29394-29405 | 6.7 | 11 |
| 43 | Differential Scanning Calorimetry (DSC) and Synchrotron X-ray Diffraction Study of Unmilled and Milled LiBH ₄ : A Partial Release of Hydrogen at Moderate Temperatures. <i>Crystals</i> , 2012 , 2, 1-21 | 2.3 | 11 |
| 42 | Hydrogen Activation Behavior of Commercial Magnesium Processed by Different Severe Plastic Deformation Routes. <i>Materials Science Forum</i> , 2010 , 667-669, 1047-1051 | 0.4 | 11 |
| 41 | Microstructure Optimization of Mg-Alloys by the ECAP Process Including Numerical Simulation, SPD Treatments, Characterization, and Hydrogen Sorption Properties. <i>Molecules</i> , 2018 , 24, | 4.8 | 11 |

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| 40 | Structural, microstructural and hydrogenation characteristics of Ti-V-Cr alloy with Zr-Ni addition. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 614-619 | 5.7 | 11 |
| 39 | Effect of cold rolling on the hydrogen absorption and desorption kinetics of Zircaloy-4. <i>Materials Chemistry and Physics</i> , 2015 , 155, 241-245 | 4.4 | 10 |
| 38 | Enhancement of the initial hydrogenation of Mg by ball milling with alkali metal amides MNH ₂ (M = Li or Na). <i>Dalton Transactions</i> , 2015 , 44, 16694-7 | 4.3 | 10 |
| 37 | Effect of ball milling on the first hydrogenation of TiFe alloy doped with 4 wt% (Zr + 2Mn) additive. <i>Journal of Materials Science</i> , 2018 , 53, 13751-13757 | 4.3 | 10 |
| 36 | Hydrogen storage properties and cycling degradation of single-phase La _{0.60} Ru _{0.15} Mg _{0.25} Ni _{3.45} alloys with A2B7-type superlattice structure. <i>Energy</i> , 2020 , 192, 116617 | 7.9 | 10 |
| 35 | Effect of addition of Zr, Ni, and Zr-Ni alloy on the hydrogen absorption of Body Centred Cubic 52Ti-12V-36Cr alloy. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7424-7429 | 6.7 | 9 |
| 34 | Hydrogen sorption enhancement in cold-rolled and ball-milled CaNi ₅ . <i>Journal of Materials Science</i> , 2017 , 52, 11911-11918 | 4.3 | 8 |
| 33 | Investigation of the microstructure, crystal structure and hydrogenation kinetics of Ti-V-Cr alloy with Zr addition. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 1115-1120 | 5.7 | 8 |
| 32 | Formation reaction of Mg ₂ FeH ₆ : effect of hydrogen absorption/desorption kinetics. <i>Materials Research</i> , 2013 , 16, 1373-1378 | 1.5 | 8 |
| 31 | Replacement of Vanadium by Ferrovandium in Ti-Based BCC Alloys for Hydrogen Storage. <i>Solid State Phenomena</i> , 2011 , 170, 144-149 | 0.4 | 8 |
| 30 | Metal Hydrides 2010 , 81-116 | | 8 |
| 29 | Microstructure and hydrogen storage properties of Ti ₄₀ Zr based BCC-type high entropy alloys. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 28709-28718 | 6.7 | 8 |
| 28 | In-situ neutron diffraction investigation of Mg ₂ FeH ₆ dehydrogenation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3087-3096 | 6.7 | 7 |
| 27 | Catalytic effects of pseudo AB ₂ phases on hydrogen sorption. <i>Journal of Alloys and Compounds</i> , 2009 , 469, 137-141 | 5.7 | 7 |
| 26 | Synthesis of Metal Hydrides by Cold Rolling. <i>Materials Science Forum</i> , 2008 , 570, 33-38 | 0.4 | 7 |
| 25 | Crystal structure of as-cast and heat-treated Ti _{0.5} Zr _{0.5} (Mn _{1-x} Fe _x)Cr ₁ , x=0, 0.2, 0.4. <i>Journal of Alloys and Compounds</i> , 2018 , 767, 432-438 | 5.7 | 6 |
| 24 | Effect of Cold Rolling on the Hydrogen Desorption Behavior of Binary Metal Hydride Powders under Microwave Irradiation. <i>Metals</i> , 2015 , 5, 2021-2033 | 2.3 | 6 |
| 23 | Effect of particle size, pressure and temperature on the activation process of hydrogen absorption in TiVZrHfNb high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 158615 | 5.7 | 5 |

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| 22 | Effect of Hafnium Addition on the Hydrogenation Process of TiFe Alloy. <i>Energies</i> , 2019 , 12, 3477 | 3.1 | 4 |
| 21 | Enhancing Hydrogen Storage Properties of Metal Hybrides. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , | 0.4 | 4 |
| 20 | Enhancement of Hydrogen Storage in Metals by Using a New Technique in Severe Plastic Deformations. <i>Key Engineering Materials</i> , 2019 , 799, 173-178 | 0.4 | 4 |
| 19 | Influence of Ball Milling, Cold Rolling and Doping (Zr + 2Cr) on Microstructure, First Hydrogenation Properties and Anti-poisoning Ability of TiFe Alloy. <i>Metals and Materials International</i> , 2021 , 27, 1346-1357 | 2.4 | 4 |
| 18 | First hydrogenation of mechanically processed TiFe-based alloy synthesized by gas atomization. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7381-7389 | 6.7 | 4 |
| 17 | Replacement of Vanadium by Ferrovandium in a Ti-Based Body Centred Cubic (BCC) Alloy: Towards a Low-Cost Hydrogen Storage Material. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1151 | 2.6 | 4 |
| 16 | Reactions in a multilayered Si (substrate)/Ta/Mg/Fe/Ta/Pd thin-film structure during annealing and deuterium absorption. <i>Acta Materialia</i> , 2015 , 90, 259-271 | 8.4 | 3 |
| 15 | Microstructure and Hydrogen Storage Properties of Ti1V0.9Cr1.1 Alloy with Addition of x wt % Zr (x = 0, 2, 4, 8, and 12). <i>Inorganics</i> , 2017 , 5, 86 | 2.9 | 3 |
| 14 | Investigation of Crystal Structure, Microstructure, and Hydrogenation Behavior of Heat-Treated Ti52V12Cr36 Alloy. <i>ACS Applied Energy Materials</i> , 2020 , 3, 794-799 | 6.1 | 3 |
| 13 | Effects of the Chromium Content in (TiVNb)100-xCr _x Body-Centered Cubic High Entropy Alloys Designed for Hydrogen Storage Applications. <i>Energies</i> , 2021 , 14, 3068 | 3.1 | 3 |
| 12 | Ti-based BCC Alloy: Dehydrogenation Characterization Using Synchrotron and Neutron Diffraction. <i>Materials Research</i> , 2016 , 19, 8-12 | 1.5 | 3 |
| 11 | Investigation of dehydrogenation of TiVCr alloy by using in-situ neutron diffraction. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156130 | 5.7 | 2 |
| 10 | Improvement of hydrogen storage properties of magnesium alloys by cold rolling and forging. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012114 | 0.4 | 2 |
| 9 | Equal Channel Angular Pressing. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 19-26 | 0.4 | 2 |
| 8 | Effect of HPT on the First Hydrogenation of LaNi ₅ Metal Hydride. <i>Energies</i> , 2021 , 14, 6710 | 3.1 | 1 |
| 7 | High-Pressure Torsion. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 11-17 | 0.4 | 1 |
| 6 | Hydrogenation of Ti _x Fe _{2-x} -based alloys with overstoichiometric Ti ratio (x = 1.1, 1.15 and 1.2). <i>International Journal of Hydrogen Energy</i> , 2021 , | 6.7 | 1 |
| 5 | Kinetics and Thermodynamics. <i>Green Energy and Technology</i> , 2008 , 471-500 | 0.6 | 0 |

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| 4 | Effect of Heat Treatment on Crystal Structure, Microstructure, and Hydrogenation Behavior of BCC 52Ti-12V-36Cr Alloys with Zr and Zr-Ni Additives. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1945-1952 | 2.3 | ○ |
| 3 | Study of the Microstructural and First Hydrogenation Properties of TiFe Alloy with Zr, Mn and V as Additives. <i>Processes</i> , 2021 , 9, 1217 | 2.9 | ○ |
| 2 | Microstructure and Hydrogen Storage Properties of the Multiphase Ti _{0.3} V _{0.3} Mn _{0.2} Fe _{0.1} Ni _{0.1} Alloy. <i>Reactions</i> , 2021 , 2, 287-300 | 1.5 | ○ |
| 1 | Cold Rolling. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 27-38 | 0.4 | |