

Fermin Cuevas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

4,492
citations

35
h-index

62
g-index

158
ext. papers

5,213
ext. citations

6
avg, IF

5.51
L-index

#	Paper	IF	Citations
152	Hydrides compounds for electrochemical applications. <i>Current Opinion in Electrochemistry</i> , 2022 , 32, 100921		21
151	Intermetallic alloys as hydrogen getters. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164173	5.7	1
150	LaNi ₅ related AB ₅ compounds: Structure, properties and applications. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158163	5.7	19
149	The Vision of France, Germany, and the European Union on Future Hydrogen Energy Research and Innovation. <i>Engineering</i> , 2021 , 7, 715-718	9.7	3
148	Hydrogen storage properties of Mn and Cu for Fe substitution in TiFe _{0.9} intermetallic compound. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156075	5.7	11
147	Fundamental hydrogen storage properties of TiFe-alloy with partial substitution of Fe by Ti and Mn. <i>Journal of Alloys and Compounds</i> , 2021 , 874, 159925	5.7	9
146	Investigation of the phase occurrence and H sorption properties in the Y _{33.33} Ni _{66.67} Al (O ₁₀₀ B _{3.33}) system. <i>Journal of Alloys and Compounds</i> , 2021 , 888, 161375	5.7	0
145	Substitutional effects in TiFe for hydrogen storage: a comprehensive review. <i>Materials Advances</i> , 2021 , 2, 2524-2560	3.3	25
144	Pseudo-ternary LiBH ₄ /LiClO ₄ /PS system as structurally disordered bulk electrolyte for all-solid-state lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13872-13879	3.6	12
143	Experimental behaviour of a three-stage metal hydride hydrogen compressor. <i>JPhys Energy</i> , 2020 , 2, 034006	4.9	4
142	Role of silicon and carbon on the structural and electrochemical properties of Si-Ni _{3.4} Sn ₄ -Al-C anodes for Li-ion batteries. <i>Materials Today Communications</i> , 2020 , 23, 101160	2.5	2
141	Impact of Surface Chemistry of Silicon Nanoparticles on the Structural and Electrochemical Properties of Si/NiSn Composite Anode for Li-Ion Batteries. <i>Nanomaterials</i> , 2020 , 11,	5.4	1
140	Materials for hydrogen-based energy storage [past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 153548	5.7	264
139	Exploits, advances and challenges benefiting beyond Li-ion battery technologies. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153261	5.7	79
138	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33687-33730	6.7	28
137	Ni ₃ Sn intermetallics as an efficient buffering matrix of Si anodes in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18132-18142	13	11
136	Solid-State Li-Ion Batteries Operating at Room Temperature Using New Borohydride Argyrodite Electrolytes. <i>Materials</i> , 2020 , 13,	3.5	8

135	Hydrides of early transition metals as catalysts and grain growth inhibitors for enhanced reversible hydrogen storage in nanostructured magnesium. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23064-23075 ¹³	13	24
134	Mechanochemistry of Metal Hydrides: Recent Advances. <i>Materials</i> , 2019 , 12,	3.5	41
133	Magnesium based materials for hydrogen based energy storage: Past, present and future. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 7809-7859	6.7	264
132	Improvement of the ionic conductivity on new substituted borohydride argyrodites. <i>Solid State Ionics</i> , 2019 , 339, 114987	3.3	10
131	Mechanosynthesis and Reversible Hydrogen Storage of Mg ₂ Ni and Mg ₂ Cu Alloys. <i>Materials Transactions</i> , 2019 , 60, 441-449	1.3	5
130	Fast synthesis of TiNi by mechanical alloying and its hydrogenation properties. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10770-10776	6.7	13
129	Full-cell hydride-based solid-state Li batteries for energy storage. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 7875-7887	6.7	37
128	Simulation and design of a three-stage metal hydride hydrogen compressor based on experimental thermodynamic data. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6666-6676	6.7	23
127	Electrochemical properties of MgH ₂ / TiH ₂ nanocomposite as active materials for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018 , 397, 143-149	8.9	8
126	Thermodynamic properties of AB compounds 2018 , 52-66		
125	Electrochemical properties of AB compounds 2018 , 67-70		
124	Synthesis and crystal structure of alkali alanates 2018 , 252-260		
123	Synthesis and crystal structure of mixed alkali alanates 2018 , 261-264		
122	Overview of AB-type metal hydrides 2018 , 71-72		
121	Synthesis of TiFe Hydrogen Absorbing Alloys Prepared by Mechanical Alloying and SPS Treatment. <i>Metals</i> , 2018 , 8, 264	2.3	6
120	Thin films as model system for understanding the electrochemical reaction mechanisms in conversion reaction of MgH ₂ with lithium. <i>Journal of Power Sources</i> , 2018 , 402, 99-106	8.9	5
119	Milling effect on the microstructural and hydrogenation properties of TiFe _{0.9} Mn _{0.1} alloy. <i>Powder Technology</i> , 2018 , 339, 903-910	5.2	15
118	Optimization of TiH ₂ content for fast and efficient hydrogen cycling of MgH ₂ -TiH ₂ nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16774-16781	6.7	29

117	In operando neutron diffraction study of LaNdMgNi ₉ H ₁₃ as a metal hydride battery anode. <i>Journal of Power Sources</i> , 2017 , 343, 502-512	8.9	17
116	Hydrogen storage properties of LiMgNiBH ₄ /ZrCoH ₃ composite with different ball-milling atmospheres. <i>Rare Metals</i> , 2017 , 1	5.5	1
115	An all-solid-state metal hydride sulfur lithium-ion battery. <i>Journal of Power Sources</i> , 2017 , 357, 56-60	8.9	38
114	Enhanced reversibility of the electrochemical Li conversion reaction with MgH ₂ /TiH ₂ nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22615-22621	6.7	16
113	Cobalt induced multi-plateau behavior in TiNi-based Ni-MH electrodes. <i>Energy Storage Materials</i> , 2017 , 8, 189-193	19.4	8
112	Asymmetric Reaction Paths and Hydrogen Sorption Mechanism in Mechanochemically Synthesized Potassium Alanate (KAlH ₄). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21299-21308	3.8	6
111	In operando neutron diffraction study of a commercial graphite/(Ni, Mn, Co) oxide-based multi-component lithium ion battery. <i>Journal of Power Sources</i> , 2016 , 326, 93-103	8.9	18
110	Gas-phase synthesis of Mg-Ti nanoparticles for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 141-8	3.6	26
109	A novel method for the synthesis of solvent-free Mg(B ₃ H ₈) ₂ . <i>Dalton Transactions</i> , 2016 , 45, 3687-90	4.3	33
108	Metal hydrides used as negative electrode materials for Li-ion batteries. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	40
107	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14404-14428	6.7	74
106	Mechanochemical synthesis in the Li-Mg-N-D system under deuterium gas: a neutron diffraction study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23944-53	3.6	3
105	Hydrogen Storage in Pristine and d ₁₀ -Block Metal-Anchored Activated Carbon Made from Local Wastes. <i>Energies</i> , 2015 , 8, 3578-3590	3.1	12
104	Structural and hydrogenation study on the ball milled TiH ₂ MgNi. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 4212-4218	6.7	4
103	Superior effect of Ni-substitution on the hydrogenation kinetics of Mg ₆ Pd ₁ TM (TM = Ag, Cu, Ni) pseudo-binary compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 645, S334-S337	5.7	0
102	Mechanochemistry of lithium nitride under hydrogen gas. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21927-34	3.6	12
101	Mechanochemistry and hydrogen storage properties of 2Li ₃ N+Mg mixture. <i>Rare Metals</i> , 2015 , 1	5.5	3
100	A step forward to the dehydrogenation reversibility of amine-borane adducts by coupling sodium and hydrocarbon groups. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2763-2767	6.7	8

99	Li-Driven Electrochemical Conversion Reaction of AlH_3 , LiAlH_4 , and NaAlH_4 . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4666-4674	3.8	40
98	Synthesis and properties of the $\text{Mg}_2\text{Ni}_{0.5}\text{Co}_{0.5}\text{H}_{4.4}$ hydride. <i>Journal of Alloys and Compounds</i> , 2015 , 645, S408-S411	5.7	7
97	Synthesis by reactive ball milling and cycling properties of $\text{MgH}_2/\text{TiH}_2$ nanocomposites: Kinetics and isotopic effects. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9918-9923	6.7	30
96	Mechanistic and Kinetic Study of the Electrochemical Charge and Discharge of La_2MgNi_9 by in Situ Powder Neutron Diffraction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12162-12169	3.8	27
95	Nanoconfinement of Mg_6Pd particles in porous carbon: size effects on structural and hydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18444-18453	13	11
94	Thermodynamics and reaction pathways of hydrogen sorption in $\text{Mg}_6(\text{Pd},\text{TM})$ (TM = Ag, Cu and Ni) pseudo-binary compounds. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18291-18301	6.7	12
93	Phase Stabilities in the Mg_6Ti System Tuned by Mechanochemistry. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21889-21895	3.8	9
92	Ti(Ni,Cu) pseudobinary compounds as efficient negative electrodes for NiMH batteries. <i>Journal of Power Sources</i> , 2014 , 265, 182-191	8.9	18
91	X-ray Absorption Spectroscopy and X-ray Diffraction Studies of the Thermal and Li-Driven Electrochemical Dehydrogenation of Nanocrystalline Complex Hydrides Mg_2MH_x (M = Co, Ni). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29554-29567	3.8	10
90	Synthesis of Mg_2Cu nanoparticles on carbon supports with enhanced hydrogen sorption kinetics. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9983	13	18
89	Supercritical fluid chemical deposition of Pd nanoparticles on magnesium-cadmium alloy for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2013 , 574, 6-12	5.7	11
88	Structural Properties and Reversible Deuterium Loading of $\text{MgD}_2/\text{TiD}_2$ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18851-18862	3.8	39
87	Electronic and structural influence of Ni by Pd substitution on the hydrogenation properties of TiNi. <i>Journal of Solid State Chemistry</i> , 2013 , 198, 475-484	3.3	13
86	Reactivity of complex hydrides Mg_2FeH_6 , Mg_2CoH_5 and Mg_2NiH_4 with lithium ion: Far from equilibrium electrochemically driven conversion reactions. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4798-4808	6.7	52
85	XAS investigations on nanocrystalline Mg_2FeH_6 used as a negative electrode of Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4706	13	35
84	Reversible hydrogen storage in the Ni-rich pseudo-binary $\text{Mg}_6\text{Pd}_{0.25}\text{Ni}_{0.75}$ intermetallic compound: Reaction pathway, thermodynamic and kinetic properties. <i>Journal of Alloys and Compounds</i> , 2013 , 548, 96-104	5.7	16
83	Hydrogen storage in hybrid nanostructured carbon/palladium materials: Influence of particle size and surface chemistry. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 952-965	6.7	83
82	An investigation of the hydrogen desorption from $\text{Nd}_2\text{Fe}_{17}\text{H}_x$ and $\text{Dy}_2\text{Fe}_{17}\text{H}_x$ compounds by differential scanning calorimetry. <i>Thermochimica Acta</i> , 2013 , 561, 14-18	2.9	5

81	Tunable synthesis of (MgNi)-based hydrides nanoconfined in templated carbon studied by in situ synchrotron diffraction. <i>Nano Energy</i> , 2013 , 2, 12-20	17.1	57
80	Reactivity assessment of lithium with the different components of novel Si/Ni _{3.4} Sn ₄ /Al/C composite anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 238, 210-217	8.9	7
79	Nanostructured Ni _{3.5} Sn ₄ intermetallic compound: An efficient buffering material for Si-containing composite anodes in lithium ion batteries. <i>Electrochimica Acta</i> , 2013 , 89, 365-371	6.7	16
78	Mechanochemical synthesis of hydrogen storage materials. <i>Progress in Materials Science</i> , 2013 , 58, 30-75	42.2	294
77	Reactivity of TiH ₂ hydride with lithium ion: Evidence for a new conversion mechanism. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 7831-7835	6.7	58
76	Synthesis, structural and hydrogenation properties of Mg-rich MgH ₂ -TiH ₂ nanocomposites prepared by reactive ball milling under hydrogen gas. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1200-1211	3.6	105
75	Effect of NH ₂ and CF ₃ functionalization on the hydrogen sorption properties of MOFs. <i>Dalton Transactions</i> , 2011 , 40, 4879-81	4.3	218
74	Highlighting of a Single Reaction Path during Reactive Ball Milling of Mg and TM by Quantitative H ₂ Gas Sorption Analysis To Form Ternary Complex Hydrides (TM = Fe, Co, Ni). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4971-4979	3.8	71
73	First-principles phase stability calculations and estimation of finite temperature effects on pseudo-binary Mg ₆ (Pd _x Ni _{1-x}) compounds. <i>Intermetallics</i> , 2011 , 19, 502-510	3.5	10
72	Hydrogenation properties of shape memory Ti(Ni,Pd) compounds. <i>Intermetallics</i> , 2011 , 19, 876-886	3.5	26
71	Nanostructured Si/SnNi/C composite as negative electrode for Li-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 4762-4768	8.9	43
70	Understanding the mechanism of hydrogen uptake at low pressure in carbon/palladium nanostructured composites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17765		46
69	Synthesis of small metallic Mg-based nanoparticles confined in porous carbon materials for hydrogen sorption. <i>Faraday Discussions</i> , 2011 , 151, 117-31; discussion 199-212	3.6	47
68	Carboxymethylcellulose and carboxymethylcellulose-formate as binders in MgH ₂ /carbon composites negative electrode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 2854-2857	8.9	68
67	Hydrogenation, structure and magnetic properties of La(Fe _{0.91} Si _{0.09}) ₁₃ hydrides and deuterides. <i>Chinese Physics B</i> , 2011 , 20, 067502	1.2	8
66	Nanostructures of Mg _{0.65} Ti _{0.35} D _x studied with x-ray diffraction, neutron diffraction, and magic-angle-spinning H ₂ NMR spectroscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	26
65	Pd nanoparticles embedded into a metal-organic framework: synthesis, structural characteristics, and hydrogen sorption properties. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2991-7	16.4	290
64	Size-dependent hydrogen sorption in ultrasmall Pd clusters embedded in a mesoporous carbon template. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7720-9	16.4	83

63	A thermodynamic study of the hydrogenation of the pseudo-binary Mg ₆ Pd _{0.5} Ni _{0.5} intermetallic compound. <i>Intermetallics</i> , 2010 , 18, 233-241	3.5	28
62	A new pseudo-binary Mg ₆ Ni _{0.5} Pd _{0.5} intermetallic compound stabilised by Pd for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 663-666	5.7	13
61	Hydrogen spillover measurements of unbridged and bridged metal-organic frameworks--revisited. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10457-9	3.6	51
60	Homogeneity range and crystal structure of Ni substituted Mg ₆ (Pd,Ni) complex intermetallic compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1259-1263	3.9	7
59	Microstructural analysis of the ageing of pseudo-binary (Ti,Zr)Ni intermetallic compounds as negative electrodes of Ni-MH batteries. <i>Electrochimica Acta</i> , 2009 , 54, 2781-2789	6.7	32
58	In situ synthesis and hydrogen storage properties of PdNi alloy nanoparticles in an ordered mesoporous carbon template. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 511-514	5.3	38
57	Study of the multipeak deuterium thermodesorption in YFe ₂ D _x (1.3 ≤ x ≤ 4.2) by DSC, TD and in situ neutron diffraction. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2278-2287	6.7	10
56	Effects of Si addition on the microstructure and the hydrogen storage properties of Ti _{26.5} V ₄₅ Fe _{8.5} Cr ₂₀ Ce _{0.5} BCC solid solution alloys. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9385-9392	6.7	15
55	Crystal structure and hydrogenation properties of pseudo-binary Mg ₆ Pd _{0.5} Ni _{0.5} complex metallic alloy. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2890-2896	3.3	14
54	Elaboration and characterization of magnesium-substituted La ₅ Ni ₁₉ hydride forming alloys as active materials for negative electrode in Ni-MH battery. <i>Electrochimica Acta</i> , 2009 , 54, 1710-1714	6.7	88
53	X-ray Diffraction and NMR Studies of Na ₃ LnAlH ₆ (n = 0, 1, 2) Alanates Synthesized by High-Pressure Reactive Ball Milling. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21242-21252	3.8	20
52	Interaction of hydrogen with the Al ₃ Mg ₂ complex metallic alloy: Experimental reliability of theoretical predictions. <i>Journal of Alloys and Compounds</i> , 2009 , 472, 565-570	5.7	15
51	Improvement of the hydrogen storage properties of TiCrVBe BCC alloy by Ce addition. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 403-407	5.7	30
50	Occurrence of Uncommon Infinite Chains Consisting of Edge-Sharing Octahedra in a Porous Metal Organic Framework-Type Aluminum Pyromellitate Al ₄ (OH) ₈ [C ₁₀ O ₈ H ₂] (MIL-120): Synthesis, Structure, and Gas Sorption Properties. <i>Chemistry of Materials</i> , 2009 , 21, 5783-5791	9.6	90
49	Structural and Magnetic Properties of Pd _x Ni _{1-x} (x = 0 and 0.54) Metallic Nanoparticles in an Ordered Mesoporous Carbon Template. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16921-16926	3.8	6
48	Thermodynamic Properties of Trialkali (Li, Na, K) Hexa-alanates: A Combined DFT and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18598-18607	3.8	15
47	In situ neutron diffraction study on Pd-doped Mg _{0.65} Sc _{0.35} electrode material. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1141-1148	3.3	15
46	Hydrogen storage properties of Pd nanoparticle/carbon template composites. <i>Carbon</i> , 2008 , 46, 206-214	10.4	116

45	Solid \bar{g} as and electrochemical hydrogenation properties of pseudo-binary (Ti,Zr)Ni intermetallic compounds. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5795-5800	6.7	24
44	Influence of cobalt and manganese content on the dehydrogenation capacity and kinetics of air-exposed LaNi _{5+x} -type alloys in solid gas and electrochemical reactions. <i>Journal of Power Sources</i> , 2007 , 170, 520-526	8.9	7
43	H/D Isotope Effects in LaNi _{4.5} Mn _{0.5} Electrodes. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A507	3.9	2
42	Relationship between microstructure and hydrogenation properties of Ti _{0.85} Zr _{0.15} Mn _{1.5} V _{0.5} alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 218-223	5.7	9
41	Influence of crystallinity on the structural and hydrogenation properties of Mg ₂ X phases (X=Ni, Si, Ge, Sn). <i>Intermetallics</i> , 2006 , 14, 163-169	3.5	67
40	Structural, solid \bar{g} as and electrochemical characterization of Mg ₂ NiMg ₂ Ni-rich and Mg _x Ni _{100-x} Mg _x Ni _{100-x} amorphous-rich nanomaterials obtained by mechanical alloying. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 247-250	6.7	14
39	Influence of the Ti/Zr ratio and the synthesis route on hydrogen absorbing properties of (Ti _{1-x} Zr _x)Mn _{1.5} V _{0.5} alloys. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 1281-1285	3.9	4
38	A conjoint XRD \bar{D} analysis of the crystal structures of austenitic and martensitic Ti _{0.64} Zr _{0.36} Ni hydrides. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3295-3307	3.3	23
37	Microstructural effects in the hydrogenation kinetics of commercial-type LaNi ₅ alloy. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 327-331	5.7	5
36	Relationship between polymorphism and hydrogenation properties in Ti _{0.64} Zr _{0.36} Ni alloy. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 545-549	5.7	20
35	Influence of the stoichiometry on the H-desorption rates measured in solid \bar{g} as phase and electrochemical cell for air-exposed LaNi _{5+x} -type alloys. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 347-350	5.7	3
34	Mechanical milling and subsequent annealing effects on the microstructural and hydrogenation properties of multisubstituted LaNi ₅ alloy. <i>Acta Materialia</i> , 2005 , 53, 2157-2167	8.4	63
33	The behaviour of highly over-stoichiometric LaNi ₅ Mn ₂ alloy as negative electrode for Ni/MH batteries. <i>Journal of Materials Science</i> , 2004 , 39, 5263-5266	4.3	2
32	Influence of thermal annealing on the hydrogenation properties of mechanically milled AB ₅ -type alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 108, 76-80	3.1	13
31	Zr-substitution in LaNi ₅ -type hydride compound by room temperature ball milling. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 108, 91-95	3.1	10
30	Hydrogen solubility and diffusivity in amorphous La ₁₄ Ni ₈₆ films. <i>Acta Materialia</i> , 2003 , 51, 701-712	8.4	4
29	Influence of polymorphism on the electrochemical properties of (Ti _{0.64} Zr _{0.36})Ni alloys. <i>Journal of Alloys and Compounds</i> , 2003 , 356-357, 730-733	5.7	11
28	Structural and electrochemical properties of amorphous rich Mg Ni ₁₀₀ nanomaterial obtained by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2003 , 356-357, 557-561	5.7	53

27	In situ neutron-diffraction study of deuterium desorption . from LaNi _{5+x} (x~1) alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1175-s1177	2.6	4
26	Influence of the martensitic transformation on the hydrogenation properties of Ti ₅₀ Zr _x Ni ₅₀ alloys. <i>Journal of Alloys and Compounds</i> , 2002 , 330-332, 250-255	5.7	31
25	Intermetallic compounds as negative electrodes of Ni/MH batteries. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, 225-238	2.6	150
24	Growth of pyrite thin-films investigated by thermoelectric measurements. <i>Thin Solid Films</i> , 2001 , 387, 97-99	2.2	14
23	The coercivity of the melt-spun Sm-Fe-Ga-C permanent magnets and the effect of additives (Nb, Cu and Zr). <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 10487-10496	1.8	
22	Formation and structure of highly over-stoichiometric LaNi _{5+x} (x~1) alloys obtained by manifold non-equilibrium methods. <i>Journal of Alloys and Compounds</i> , 2001 , 323-324, 4-7	5.7	7
21	Effect of additives on the structure and magnetic properties of 1:7 type Sm ₂ Fe ₁₅ Ga ₂ C ₃ permanent magnets. <i>Journal of Applied Physics</i> , 2000 , 88, 6618-6622	2.5	8
20	The hydrogen desorption kinetics of Pd-coated LaNi ₅ -type films. <i>Journal of Alloys and Compounds</i> , 2000 , 313, 269-275	5.7	22
19	Simultaneous differential scanning calorimetry and thermal desorption spectroscopy measurements for the study of the decomposition of metal hydrides. <i>Journal of Alloys and Compounds</i> , 2000 , 298, 244-253	5.7	52
18	Kinetics of the Iodide Titanium Process by the Thermal Decomposition of Titanium Tetraiodide. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2589	3.9	6
17	Preparation of highly overstoichiometric LaNi _{5+x} (1?x?4) single-phase films by ion beam sputtering. <i>Journal of Applied Physics</i> , 1999 , 86, 6690-6696	2.5	7
16	Monitoring of iodide titanium growth on tungsten substrates by electrical resistance measurements. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998 , 54, 141-148	3.1	1
15	Influence of the microstructure on the desorption kinetics of single- and multiphase LaNiFe alloys. <i>Journal of Alloys and Compounds</i> , 1998 , 266, 255-259	5.7	20
14	In situ measurement of the rate of H absorption by a Pd cathode during the electrolysis of aqueous solutions. <i>Review of Scientific Instruments</i> , 1997 , 68, 1324-1330	1.7	
13	A Search for Nuclear Reactions in Deuterated Fresh Iodide-Titanium Films. <i>Fusion Science and Technology</i> , 1997 , 32, 644-654		1
12	Experimental Investigation of Neutron Emissions during Thermal Cycling of TiD _x (x 12.00). <i>Fusion Science and Technology</i> , 1997 , 31, 237-247		2
11	Observation of the phase transformation in deuterated iodide titanium films by electrical resistance measurements. <i>Journal of Alloys and Compounds</i> , 1997 , 253-254, 158-161	5.7	7
10	An Interpretation of Some Postelectrolysis Nuclear Effects in Deuterated Titanium. <i>Fusion Science and Technology</i> , 1996 , 29, 390-397		2

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8	Surface activation and hydrogenation kinetics of ti sponge. <i>International Journal of Hydrogen Energy</i> , 1996 , 21, 765-768	6.7	4
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5	Kinetics of H(D)-absorption in Pd cathodes. <i>Journal of Alloys and Compounds</i> , 1995 , 231, 655-659	5.7	3
4	Influence of the preparation conditions of titanium hydride and deuteride TiH _x (D _x) (X ∈ [0,1]) on the specific heat around the β transition. <i>Journal of Alloys and Compounds</i> , 1995 , 231, 78-84	5.7	15
3	Deuterium concentration profiles in electrochemically deuterated titanium and their evolution after electrolysis. <i>Journal of Alloys and Compounds</i> , 1994 , 205, 303-309	5.7	2
2	Anomalous X-Ray Diffraction in Electrolytically Deuterated Titanium*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1993 , 181, 329-334	3.1	
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