Fabrice Leardini

List of Publications by Year in descending order

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471061 500791 47 839 17 28 citations h-index g-index papers 48 48 48 1257 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Imaging the Kirkendall effect in pyrite (FeS2) thin films: Cross-sectional microstructure and chemical features. Acta Materialia, 2021, 205, 116582.	3.8	4
2	Borocarbonitride Layers on Titanium Dioxide Nanoribbons for Efficient Photoelectrocatalytic Water Splitting. Materials, 2021, 14, 5490.	1.3	4
3	Ultrathin Transparent B–C–N Layers Grown on Titanium Substrates with Excellent Electrocatalytic Activity for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 1922-1932.	2.5	16
4	Experimental behaviour of a three-stage metal hydride hydrogen compressor. JPhys Energy, 2020, 2, 034006.	2.3	8
5	How to Design Hydrogen Storage Materials? Fundamentals, Synthesis, and Storage Tanks. Advanced Sustainable Systems, 2019, 3, 1900043.	2.7	90
6	A fast synthesis route of boron–carbon–nitrogen ultrathin layers towards highly mixed ternary B–C–N phases. 2D Materials, 2019, 6, 035015.	2.0	10
7	Unconventional Approaches to Hydrogen Sorption Reactions: Nonâ€Thermal and Nonâ€Straightforward Thermally Driven Methods. ChemPhysChem, 2019, 20, 1248-1260.	1.0	5
8	Synthesis and functionalization of graphite oxide: structural, morphological and thermal properties for hydrogen storage. Journal of Materials Science: Materials in Electronics, 2019, 30, 5044-5051.	1.1	3
9	Microstructure Optimization of Mg-Alloys by the ECAP Process Including Numerical Simulation, SPD Treatments, Characterization, and Hydrogen Sorption Properties. Molecules, 2019, 24, 89.	1.7	20
10	Chemical vapor deposition growth of boron–carbon–nitrogen layers from methylamine borane thermolysis products. Nanotechnology, 2018, 29, 025603.	1.3	21
11	High Current Density Electrical Breakdown of TiS ₃ Nanoribbonâ€Based Fieldâ€Effect Transistors. Advanced Functional Materials, 2017, 27, 1605647.	7.8	52
12	On the van der Pauw's method applied to the measurement of low thermal conductivity materials. Review of Scientific Instruments, 2016, 87, 084902.	0.6	4
13	Operando Raman-mass spectrometry investigation of hydrogen release by thermolysis of ammonia borane confined in mesoporous materials. Microporous and Mesoporous Materials, 2016, 226, 454-465.	2.2	19
14	Influence of temperature on thermoelectric properties of FexCo1â^xxS2 thin films: A semiconductor to semimetal conversion. Thin Solid Films, 2016, 600, 19-24.	0.8	20
15	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. International Journal of Hydrogen Energy, 2016, 41, 14404-14428.	3.8	94
16	In-vacuum thermolysis of ethane 1,2-diamineborane for the synthesis of ternary borocarbonitrides. Nanotechnology, 2016, 27, 435601.	1.3	17
17	Realistic simulation in a single stage hydrogen compressor based on AB2 alloys. International Journal of Hydrogen Energy, 2016, 41, 9780-9788.	3.8	22
18	Synthesis of Ternary Borocarbonitrides by High Temperature Pyrolysis of Ethane 1,2-Diamineborane. Materials, 2015, 8, 5974-5985.	1.3	13

#	Article	lF	Citations
19	A step forward to the dehydrogenation reversibility of amine-borane adducts by coupling sodium and hydrocarbon groups. International Journal of Hydrogen Energy, 2015, 40, 2763-2767.	3.8	9
20	Non-isothermal desorption process of Âhydrogenated nanocrystalline Pd-capped Mg Âfilms investigated by Ion Beam Techniques. International Journal of Hydrogen Energy, 2014, 39, 2587-2596.	3.8	18
21	Thermolytic Decomposition of Ethane 1,2-Diamineborane Investigated by Thermoanalytical Methods and in Situ Vibrational Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 17221-17230.	1.5	43
22	A spectroscopic investigation of hydrogenated Li doped fullerane. Journal of Alloys and Compounds, 2013, 580, S67-S69.	2.8	7
23	Reversible hydrogen storage in the Ni-rich pseudo-binary Mg6Pd0.25Ni0.75 intermetallic compound: Reaction pathway, thermodynamic and kinetic properties. Journal of Alloys and Compounds, 2013, 548, 96-104.	2.8	17
24	Rotational dynamics in ammonia borane: Evidence of strong isotope effects. Journal of Alloys and Compounds, 2013, 580, S63-S66.	2.8	6
25	Anelastic spectroscopy investigation of nano-confined alanates. Journal of Alloys and Compounds, 2013, 580, S70-S72.	2.8	0
26	Hydrogen Desorption Behavior of Calcium Amidoborane Obtained by Reactive Milling of Calcium Hydride and Ammonia Borane. Journal of Physical Chemistry C, 2012, 116, 24430-24435.	1.5	13
27	Ion beam analysis of as-received, H-implanted and post implanted annealed fusion steels. Nuclear Instruments & Methods in Physics Research B, 2012, 271, 27-32.	0.6	8
28	First-principles phase stability calculations and estimation of finite temperature effects on pseudo-binary Mg6(PdxNi1a^'x) compounds. Intermetallics, 2011, 19, 502-510.	1.8	11
29	Synthesis of hexagonal C14/C36 and cubic C15 ZrCr2 Laves phases and thermodynamic stability of their hydrides. Journal of Physics and Chemistry of Solids, 2011, 72, 1334-1342.	1.9	27
30	An investigation on the thermodynamics and kinetics of magnesium hydride decomposition based on isotope effects. International Journal of Hydrogen Energy, 2011, 36, 8351-8357.	3.8	19
31	Deuteration properties of CaNi5â^'xCux system. Journal of Power Sources, 2011, 196, 4342-4346.	4.0	3
32	Homogeneity range and crystal structure of Ni substituted Mg6(Pd,Ni) complex intermetallic compounds. Journal of Physics and Chemistry of Solids, 2010, 71, 1259-1263.	1.9	7
33	A thermodynamic study of the hydrogenation of the pseudo-binary Mg6Pd0.5Ni0.5 intermetallic compound. Intermetallics, 2010, 18, 233-241.	1.8	28
34	A new metastable crystalline phase in the Cr–Zr system. Intermetallics, 2010, 18, 1099-1101.	1.8	4
35	A new pseudo-binary Mg6Ni0.5Pd0.5 intermetallic compound stabilised by Pd for hydrogen storage. Journal of Alloys and Compounds, 2010, 495, 663-666.	2.8	14
36	Hydrogen desorption in nanocrystalline MgH2 thin films at room temperature. Journal of Alloys and Compounds, 2010, 495, 650-654.	2.8	27

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37	Reaction pathways for hydrogen desorption from magnesium hydride/hydroxide composites: bulk and interface effects. Physical Chemistry Chemical Physics, 2010, 12, 572-577.	1.3	34
38	Ultrasonic irradiation as a tool to modify the H-desorption from hydrides: MgH2 suspended in decane. Ultrasonics Sonochemistry, 2009, 16, 810-816.	3.8	17
39	Crystal structure and hydrogenation properties of pseudo-binary Mg6Pd0.5Ni0.5 complex metallic alloy. Journal of Solid State Chemistry, 2009, 182, 2890-2896.	1.4	17
40	Interaction of hydrogen with the \hat{I}^2 -Al3Mg2 complex metallic alloy: Experimental reliability of theoretical predictions. Journal of Alloys and Compounds, 2009, 472, 565-570.	2.8	18
41	Hydrogen Absorption/Desorption Mechanism in Potassium Alanate (KAlH ₄) and Enhancement by TiCl ₃ Doping. Journal of Physical Chemistry C, 2009, 113, 6845-6851.	1.5	48
42	Hydrogen absorption and desorption in rapidly solidified Mg- Al alloys. Journal of Physics: Conference Series, 2009, 144, 012016.	0.3	3
43	Isotope effects in the kinetics of simultaneous H and D thermal desorption from Pd. Journal of Physics and Chemistry of Solids, 2008, 69, 116-127.	1.9	17
44	Polynomial-interpolation algorithm for van der Pauw Hall measurement in a metal hydride film. Measurement Science and Technology, 2008, 19, 105106.	1.4	0
45	H/D Isotope Effects in LaNi[sub 4.5]Mn[sub 0.5] Electrodes. Journal of the Electrochemical Society, 2007, 154, A507.	1.3	2
46	An experimental system to investigate kinetics and isotopic properties of the electrolytic metal hydride formation. Journal of Alloys and Compounds, 2005, 404-406, 720-723.	2.8	0
47	Anodic formation of microcrystals by electrolysis of KBr single crystals. Solid State Ionics, 2004, 168, 197-204.	1.3	О