

Igor E Gabis

List of Publications by Year in descending order

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36
papers

681
citations

623188

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36
all docs

36
docs citations

36
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	Aluminum hydride as a hydrogen and energy storage material: Past, present and future. Journal of Alloys and Compounds, 2011, 509, S517-S528.	2.8	194
2	Kinetics of hydrogen evolution from MgH ₂ : Experimental studies, mechanism and modelling. International Journal of Hydrogen Energy, 2010, 35, 9060-9069.	3.8	89
3	Alloys based on Group 5 metals for hydrogen purification membranes. Journal of Alloys and Compounds, 2015, 645, S36-S40.	2.8	43
4	Kinetics of dehydrogenation of MgH ₂ and AlH ₃ . Journal of Alloys and Compounds, 2011, 509, S671-S674.	2.8	39
5	Kinetics of hydrogen desorption from the powders of metal hydrides. Journal of Alloys and Compounds, 2005, 404-406, 312-316.	2.8	36
6	Kinetics of decomposition of erbium hydride. Journal of Alloys and Compounds, 2003, 356-357, 353-357.	2.8	29
7	Study of the kinetics of hydrogen sorption and desorption from titanium. Journal of Alloys and Compounds, 2005, 404-406, 335-338.	2.8	25
8	Ultraviolet activation of thermal decomposition of AlH_3 -alane. International Journal of Hydrogen Energy, 2012, 37, 14405-14412.	3.8	23
9	Decomposition kinetics of metal hydrides: Experiments and modeling. Journal of Alloys and Compounds, 2013, 580, S243-S246.	2.8	22
10	Influence of metal powder particle's shape on the kinetics of hydriding. International Journal of Hydrogen Energy, 2010, 35, 253-258.	3.8	19
11	Mathematical modelling of UH ₃ formation. International Journal of Hydrogen Energy, 2008, 33, 5589-5595.	3.8	16
12	A mechanism of ultraviolet activation of the AlH_3 -AlH ₃ decomposition. International Journal of Hydrogen Energy, 2014, 39, 15844-15850.	3.8	16
13	Hydrogen solubility in V85Ni15 alloy. International Journal of Hydrogen Energy, 2017, 42, 3058-3063.	3.8	16
14	Non-isothermal kinetics and in situ SR XRD studies of hydrogen desorption from dihydrides of binary Ti-V alloys. International Journal of Hydrogen Energy, 2013, 38, 14704-14714.	3.8	15
15	Permeation of hydrogen through amorphous ferrum membrane. International Journal of Hydrogen Energy, 2001, 26, 457-460.	3.8	13
16	Modeling of metal hydride battery anodes at high discharge current densities and constant discharge currents. Electrochimica Acta, 2014, 147, 73-81.	2.6	13
17	Hydrogen permeability and structure of vanadium alloy membranes. Petroleum Chemistry, 2017, 57, 483-488.	0.4	10
18	Kinetics of Sorption and Release of Hydrogen by Nanoporous Carbon. Materials Science, 2000, 36, 499-505.	0.3	9

#	ARTICLE	IF	CITATIONS
19	Lithiation Products of a Silicon Anode Based on Soft X-ray Emission Spectroscopy: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11096-11108.	1.5	8
20	Structure and hydrogen permeability of Vâ€“15Ni alloy. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27492-27498.	3.8	7
21	Kinetics of hydrogen liberation from stoichiometric and nonstoichiometric magnesium hydride. <i>Materials Science</i> , 2007, 43, 620-633.	0.3	5
22	Thermal- and photoactivation of aluminum hydride decomposition. <i>Russian Journal of Physical Chemistry A</i> , 2012, 86, 1736-1741.	0.1	5
23	Influence of kinetics of hydrogen transport in a metal hydride anode on the discharge properties of the Niâ€“MH batteries. <i>Journal of Alloys and Compounds</i> , 2015, 629, 242-246.	2.8	5
24	Luminescent properties of aluminum hydride. <i>Journal of Luminescence</i> , 2015, 166, 162-166.	1.5	4
25	Limiting role of desorption in hydrogen transport across a deposited beryllium film. <i>Technical Physics</i> , 1998, 43, 114-116.	0.2	3
26	Effect of Sorbed Hydrogen on the Conductivity of Nanoporous Carbon. <i>Materials Science</i> , 2002, 38, 570-575.	0.3	3
27	Activation of magnesium hydride by pressing with catalytic additives. <i>Technical Physics Letters</i> , 2017, 43, 190-193.	0.2	3
28	Soft X-ray Li-K and Si-L2, 3 Emission from Crystalline and Amorphous Lithium Silicides in Lithium-Ion Batteries Anode. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5362-A5368.	1.3	3
29	Studying hydrogen permeability by method of concentration pulses. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 279-283.	2.8	2
30	Modeling high-temperature TDS-spectra peaks of metalâ€“hydrogen systems. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 332-334.	2.8	2
31	Mathematical model of metal-hydride hydrogen tank with quick sorption. <i>Journal of Alloys and Compounds</i> , 2011, 509, S809-S811.	2.8	2
32	Using the method of concentration waves for examining diffusion and capture of hydrogen in defective media. <i>Soviet Materials Science</i> , 1990, 25, 391-396.	0.0	1
33	Diffusion and penetration of hydrogen through a cobalt foil. <i>Soviet Materials Science</i> , 1992, 27, 333-334.	0.0	1
34	Penetration of hydrogen through multilayer metal membranes with thin separated layers. <i>Soviet Materials Science</i> , 1991, 26, 549-551.	0.0	0
35	Thermodesorption examination of interaction of hydrogen with traps in silver. <i>Soviet Materials Science</i> , 1992, 27, 596-598.	0.0	0
36	Mathematical model of metal-hydride phase change applied to Yttrium. <i>Journal of Physics: Conference Series</i> , 2013, 461, 012042.	0.3	0