

JuliÅ;n Puszkiel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3136596/publications.pdf>

Version: 2024-02-01

49
papers

1,541
citations

304368

22
h-index

301761

39
g-index

49
all docs

49
docs citations

49
times ranked

1201
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Emergency Gas-to-Power System Based on an Efficient and Long-Lasting Solid-State Hydride Storage System: Modeling and Experimental Validation. <i>Energies</i> , 2022, 15, 844.	1.6	3
2	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. <i>Progress in Energy</i> , 2022, 4, 032007.	4.6	29
3	A comprehensive study on lithium-based reactive hydride composite (Li-RHC) as a reversible solid-state hydrogen storage system toward potential mobile applications. <i>RSC Advances</i> , 2021, 11, 23122-23135.	1.7	6
4	Modeling the kinetic behavior of the Li-RHC system for energy-hydrogen storage: (I) absorption. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32110-32125.	3.8	5
5	Enhanced Hydrogen Storage Properties of Li-RHC System with In-House Synthesized AlTi ₃ Nanoparticles. <i>Energies</i> , 2021, 14, 7853.	1.6	2
6	Improved kinetic behaviour of Mg(NH ₂) ₂ -2LiH doped with nanostructured K-modified-Li _x Ti _y O _z for hydrogen storage. <i>Scientific Reports</i> , 2020, 10, 8.	1.6	25
7	CO ₂ reactivity with Mg ₂ NiH ₄ synthesized by <i>in situ</i> monitoring of mechanical milling. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1944-1952.	1.3	11
8	Dual application of Ti-catalyzed Li-RHC composite for H ₂ purification and CO methanation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19493-19504.	3.8	3
9	Designing an AB ₂ -Type Alloy (TiZr-CrMnMo) for the Hybrid Hydrogen Storage Concept. <i>Energies</i> , 2020, 13, 2751.	1.6	20
10	Conversion of magnesium waste into a complex magnesium hydride system: Mg(NH ₂) ₂ ·LiH. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1915-1923.	2.5	16
11	Enhanced Stability of Li-RHC Embedded in an Adaptive TPX ₂ Polymer Scaffold. <i>Materials</i> , 2020, 13, 991.	1.3	14
12	Tuning LiBH ₄ for Hydrogen Storage: Destabilization, Additive, and Nanoconfinement Approaches. <i>Molecules</i> , 2020, 25, 163.	1.7	46
13	CO ₂ reutilization for methane production <i>via</i> a catalytic process promoted by hydrides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19825-19834.	1.3	24
14	Enhancement Effect of Bimetallic Amide K ₂ Mn(NH ₂) ₄ and In-Situ Formed KH and Mn ₄ N on the Dehydrogenation/Hydrogenation Properties of Li-Mg-H System. <i>Energies</i> , 2019, 12, 2779.	1.6	9
15	Efficient Synthesis of Alkali Borohydrides from Mechanochemical Reduction of Borates Using Magnesium-Aluminum-Based Waste. <i>Metals</i> , 2019, 9, 1061.	1.0	22
16	Effect of the Process Parameters on the Energy Transfer during the Synthesis of the 2LiBH ₄ -MgH ₂ Reactive Hydride Composite for Hydrogen Storage. <i>Metals</i> , 2019, 9, 349.	1.0	11
17	Scale-up of milling in a 100 ÅL device for processing of TiFeMn alloy for hydrogen storage applications: Procedure and characterization. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29282-29290.	3.8	18
18	A new mutually destabilized reactive hydride system: LiBH ₄ -Mg ₂ NiH ₄ . <i>Journal of Energy Chemistry</i> , 2019, 34, 240-254.	7.1	14

#	ARTICLE	IF	CITATIONS
19	Tuning the reaction mechanism and hydrogenation/dehydrogenation properties of $6\text{Mg}(\text{NH}_2)_2/9\text{LiH}$ system by adding LiBH_4 . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11920-11929.	3.8	21
20	Application of hydrides in hydrogen storage and compression: Achievements, outlook and perspectives. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7780-7808.	3.8	486
21	Design of a Nanometric AlTi Additive for MgB_2 -Based Reactive Hydride Composites with Superior Kinetic Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7642-7655.	1.5	29
22	New Insight on the Hydrogen Absorption Evolution of the Mg-Fe-H System under Equilibrium Conditions. <i>Metals</i> , 2018, 8, 967.	1.0	17
23	Fundamental Material Properties of the $2\text{LiBH}_4\text{-MgH}_2$ Reactive Hydride Composite for Hydrogen Storage: (II) Kinetic Properties. <i>Energies</i> , 2018, 11, 1170.	1.6	21
24	Fundamental Material Properties of the $2\text{LiBH}_4\text{-MgH}_2$ Reactive Hydride Composite for Hydrogen Storage: (I) Thermodynamic and Heat Transfer Properties. <i>Energies</i> , 2018, 11, 1081.	1.6	24
25	In Situ Formation of TiB_2 Nanoparticles for Enhanced Dehydrogenation/Hydrogenation Reaction Kinetics of $\text{LiBH}_4\text{-MgH}_2$ as a Reversible Solid-State Hydrogen Storage Composite System. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11671-11681.	1.5	29
26	Estudio y caracterización del efecto de compuestos con titanio sobre el sistema hidruro Li-B-Mg-H con alta capacidad de almacenamiento de hidrógeno. <i>Revista Materia</i> , 2018, 23, .	0.1	0
27	Changing the dehydrogenation pathway of $\text{LiBH}_4\text{-MgH}_2$ via nanosized lithiated TiO_2 . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7455-7460.	1.3	25
28	A novel catalytic route for hydrogenation/dehydrogenation of $2\text{LiH} + \text{MgB}_2$ via in situ formed core-shell Li_xTiO_2 nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12922-12933.	5.2	27
29	Kinetic alteration of the $6\text{Mg}(\text{NH}_2)_2/9\text{LiH-LiBH}_4$ system by co-adding YCl_3 and Li_3N . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32105-32115.	1.3	10
30	Tetrahydroborates: Development and Potential as Hydrogen Storage Medium. <i>Inorganics</i> , 2017, 5, 74.	1.2	58
31	$\text{KNH}_2\text{-KH}$: a metal amide hydride solid solution. <i>Chemical Communications</i> , 2016, 52, 11760-11763.	2.2	14
32	Cyclic stability and structure of nanoconfined Ti-doped NaAlH_4 . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4159-4167.	3.8	16
33	Hydrogen cycling properties of $x\text{Mg-Fe}$ materials (x : 2, 3 and 15) produced by reactive ball milling. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1688-1698.	3.8	14
34	Structural and kinetic investigation of the hydride composite $\text{Ca}(\text{BH}_4)_2 + \text{MgH}_2$ system doped with NbF_5 for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27328-27342.	1.3	25
35	Effect of Fe additive on the hydrogenation-dehydrogenation properties of $2\text{LiH} + 2\text{MgB}_2/2\text{LiBH}_4 + 2\text{MgH}_2$ system. <i>Journal of Power Sources</i> , 2015, 284, 606-616.	4.0	31
36	Influence of milling parameters on the sorption properties of the LiH-MgB_2 system doped with TiCl_3 . <i>Journal of Alloys and Compounds</i> , 2015, 645, S299-S303.	2.8	12

#	ARTICLE	IF	CITATIONS
37	2LiBH ₄ •MgH ₂ •0.13TiCl ₄ confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2014, 599, 78-86.	2.8	36
38	Hydrogen storage in Mg•LiBH ₄ composites catalyzed by FeF ₃ . <i>Journal of Power Sources</i> , 2014, 267, 799-811.	4.0	36
39	Sorption behavior of the MgH ₂ •Mg ₂ FeH ₆ hydride storage system synthesized by mechanical milling followed by sintering. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14618-14630.	3.8	37
40	Nanoconfined 2LiBH ₄ •MgH ₂ •TiCl ₃ in carbon aerogel scaffold for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3275-3282.	3.8	49
41	Reversible hydrogen storage from 6LiBH ₄ •MCl ₃ (M=Ce, Gd) composites by in-situ formation of MH ₂ . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 563-570.	3.8	41
42	Enhanced hydrogen sorption kinetics of Mg ₅₀ Ni•LiBH ₄ composite by CeCl ₃ addition. <i>Journal of Power Sources</i> , 2010, 195, 3266-3274.	4.0	13
43	Theoretical and experimental study of the intrinsic physical properties of the Mg•MgH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6042-6047.	3.8	0
44	A novel polymorph of gadolinium tetrahydroborate produced by mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10324-10328.	3.8	12
45	Synthesis of Mg ₁₅ Fe materials for hydrogen storage applying ball milling procedures. <i>Journal of Alloys and Compounds</i> , 2010, 495, 655-658.	2.8	2
46	Reversible hydrogen storage in metal-doped Mg•LiBH ₄ composites. <i>Scripta Materialia</i> , 2009, 60, 667-670.	2.6	29
47	Hydrogen storage properties of Mg _x Fe (x: 2, 3 and 15) compounds produced by reactive ball milling. <i>Journal of Power Sources</i> , 2009, 186, 185-193.	4.0	47
48	Thermodynamic•kinetic characterization of the synthesized Mg ₂ FeH ₆ •MgH ₂ hydrides mixture. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3555-3560.	3.8	50
49	Thermodynamic and kinetic studies of Mg•Fe•H after mechanical milling followed by sintering. <i>Journal of Alloys and Compounds</i> , 2008, 463, 134-142.	2.8	52