Kouji Sakaki

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.

76	890	17	27
papers	citations	h-index	g-index
82 ext. papers	1,043 ext. citations	4.6 avg, IF	3.92 L-index

#	Paper	IF	Citations
76	Structural degradation behavior of Mg2-Pr Ni4 upon hydrogenation. <i>Journal of Alloys and Compounds</i> , 2022 , 912, 165272	5.7	
75	Displacement of hydrogen position in di-hydride of V-Ti-Cr solid solution alloys. <i>Acta Materialia</i> , 2022 , 118055	8.4	1
74	Suppression of the Phase Coexistence of the fcc-fct Transition in Hafnium-Hydride Thin Films. Journal of Physical Chemistry Letters, 2021 , 12, 10969-10974	6.4	1
73	Stability of Zirconium-Substituted Face-Centered Cubic Yttrium Hydride. <i>Inorganic Chemistry</i> , 2021 , 60, 17715-17721	5.1	
72	Strategy of thermodynamic and kinetic improvements for Mg hydride nanostructured by immiscible transition metals. <i>Journal of Power Sources</i> , 2021 , 494, 229742	8.9	8
71	Zirconium hydride-stabilized yttrium hydride (ZSY): Stabilization of a face-centered cubic YH3 phase by Zr substitution. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156071	5.7	1
70	The average and local structure of TiVCrNbDx (x=0,2.2,8) from total scattering and neutron spectroscopy. <i>Acta Materialia</i> , 2021 , 205, 116496	8.4	11
69	Face-centered-cubic yttrium trihydride high-pressure phase stabilized at ambient pressures by mechanical milling. <i>Materialia</i> , 2021 , 15, 100956	3.2	1
68	Uncovering the encapsulation effect of reduced graphene oxide sheets on the hydrogen storage properties of palladium nanocubes. <i>Nanoscale</i> , 2021 , 13, 16942-16951	7.7	2
67	Nanostructural Perspective for Destabilization of Mg Hydride Using the Immiscible Transition Metal Mn. <i>Inorganic Chemistry</i> , 2021 , 60, 15024-15030	5.1	3
66	Generating Mechanism of Catalytic Effect for Hydrogen Absorption/Desorption Reactions in NaAlH4TiCl3. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8349	2.6	1
65	Tuning the hydrogenation properties of Ti1+yCr2-xMnx laves phase compounds for high pressure metal-hydride compressors. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 36369-36369	6.7	5
64	Hydrogen generation by hydrolysis reaction using magnesium alloys with long period stacking ordered structure. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 35161-35171	6.7	O
63	Unveiling Nanoscale Compositional and Structural Heterogeneities of Highly Textured MgTiH Thin Films. <i>Inorganic Chemistry</i> , 2020 , 59, 6800-6807	5.1	3
62	Metallurgical Synthesis of MgFeSi Hydride: Destabilization of MgFeH Nanostructured in Templated MgSi. <i>Inorganic Chemistry</i> , 2020 , 59, 2758-2764	5.1	2
61	Hydrogen storage properties of Nb-based solid solution alloys with a BCC structure. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153399	5.7	9
60	Reaction paths via a new transient phase in non-equilibrium hydrogen absorption of LaNi2Co3. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 21655-21665	6.7	4

(2014-2020)

59	Hydrogenation Properties of MgCuY with Long Period Stacking Ordered Structure and Formation of Polymorphic EMgH. <i>Inorganic Chemistry</i> , 2020 , 59, 14263-14274	5.1	1	
58	Facile Synthesis of LiH-Stabilized Face-Centered-Cubic YH High-Pressure Phase by Ball Milling Process. <i>Inorganic Chemistry</i> , 2019 , 58, 13102-13107	5.1	5	
57	Metal hydride actuator for a rescue jack driven by hydrogen desorption. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29310-29318	6.7	3	
56	Destabilizing the Dehydrogenation Thermodynamics of Magnesium Hydride by Utilizing the Immiscibility of Mn with Mg. <i>Inorganic Chemistry</i> , 2019 , 58, 14600-14607	5.1	13	
55	Interstitial-atom-induced phase transformation upon hydrogenation in vanadium. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 33-41	5.7	5	
54	Development of an in situ synchrotron X-ray total scattering setup under pressurized hydrogen gas. <i>Journal of Applied Crystallography</i> , 2018 , 51, 796-801	3.8	4	
53	Rescue jack system applying hydrogen-absorbing alloys as a pressure source. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22438-22446	6.7	2	
52	Structural Variation of Self-Organized Mg Hydride Nanoclusters in Immiscible Ti Matrix by Hydrogenation. <i>Inorganic Chemistry</i> , 2018 , 57, 11831-11838	5.1	11	
51	Positron Annihilation Spectroscopy (PAS). Neutron Scattering Applications and Techniques, 2016, 377-4	02		
50	High-Pressure-Hydrogen-Induced Spin Reconfiguration in GdFe2 Observed by 57Fe-Polarized Synchrotron Radiation MBsbauer Spectroscopy with Nuclear Bragg Monochromator. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 123707	1.5	1	
49	Application of metal hydride paper to simple pressure generator for use in soft actuator systems. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 4789-92	0.9	4	
48	Compositional Dependence of Hydrogenation Properties in Ti1+y(Fe1−xMnx)1−y (0.2≦x≦0.5, 0≦y≦0.08). <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 112-117	0.4	2	
47	Effect of a Quenching Rate on Hydrogen Storage Properties of V0.79Ti0.2Zr0.01. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 131-136	0.4		
46	Observation of Transient Structural Changes on Hydrogen Absorption Process of LaNi4.75Sn0.25 by Time Resolved X-Ray Diffraction. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 124-130	0.4	3	
45	Development of ZrxTi1−xMn0.8V0.2Ni0.9M0.1 (M=Ni, Al, Fe, Cu) Alloys for a Soft Actuator Using Hydrogen Storage Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 257-264	0.4	2	
44	Synthesis and structural study of Ti-rich MgIIi hydrides. <i>Journal of Alloys and Compounds</i> , 2014 , 593, 132-136	5.7	13	
43	Degradation Mechanism against Hydrogenation Cycles in Mg2\(\mathbb{B}\)PrxNi4(x= 0.6 and 1.0). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6697-6705	3.8	17	
42	Reduction and unusual recovery in the reversible hydrogen storage capacity of V1\(\mathbb{I}\)Tix during hydrogen cycling. International Journal of Hydrogen Energy, 2014, 39, 10546-10551	6.7	11	

41	Development of Ti–Zr–Mn Based Hydrogen Storage Alloys for a Soft Actuator. <i>Materials Transactions</i> , 2014 , 55, 1168-1174	1.3	5
40	Improving the Cyclic Stability of V–Ti–Mn bcc Alloys Using Interstitial Elements. <i>Materials Transactions</i> , 2014 , 55, 1144-1148	1.3	6
39	In situ XRD study of La2Ni7H(x) during hydrogen absorption-desorption. <i>Inorganic Chemistry</i> , 2013 , 52, 10105-11	5.1	16
38	Origin of Degradation in the Reversible Hydrogen Storage Capacity of V1\(\mathbb{I}\)Tix Alloys from the Atomic Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26543-26550	3.8	36
37	In situ synchrotron 57Fe M\(\mathbb{G}\)sbauer spectroscopy of RFe2 (R = Y, Gd) hydrides synthesized under ultra-high-pressure hydrogen. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S264-S267	5.7	5
36	Crystal structure and local structure of Mg(2-x)Pr(x)Ni4 (x = 0.6 and 1.0) deuteride using in situ neutron total scattering. <i>Inorganic Chemistry</i> , 2013 , 52, 7010-9	5.1	23
35	Identification of Vacancy Formation Sites in LaNi5Cu During Hydrogenation Using in Situ Coincidence Doppler Broadening Technique. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22238-22244	3.8	3
34	An in situ MBsbauer study using synchrotron radiation. <i>Hyperfine Interactions</i> , 2012 , 204, 139-142	0.8	2
33	Hydrogenation Properties of Ternary Intermetallic Compounds Mg2−xPrxNi4. <i>Materials Transactions</i> , 2012 , 53, 513-517	1.3	18
32	In situ atomic force microscopy observation of hydrogen absorption/desorption by Palladium thin film. <i>Applied Surface Science</i> , 2011 , 258, 1456-1459	6.7	5
31	Hydrogenation properties of TillMn alloys with a BCC structure containing high and low oxygen concentrations. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1841-1847	5.7	23
30	Phase Transformation and Lattice-Strain Formation in Ti1.0V1.1Mn0.9 during First Absorption and Desorption. <i>Materials Transactions</i> , 2011 , 52, 586-590	1.3	4
29	Hydrogen absorption kinetics of magnesium fiber prepared by vapor deposition. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14488-14495	6.7	18
28	Synthesis and crystal structure of a Pr5Ni19 superlattice alloy and its hydrogen absorption-desorption property. <i>Inorganic Chemistry</i> , 2011 , 50, 4548-52	5.1	26
27	Reversible Vacancy Formation and Recovery during Dehydrogenation Hydrogenation Cycling of Ti-Doped NaAlH4. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6869-6873	3.8	20
26	Phase transformation and crystal structure of La(2)Ni(7)H(x) studied by in situ X-ray diffraction. <i>Inorganic Chemistry</i> , 2010 , 49, 8763-8	5.1	28
25	Development of an energy-domain 57Fe-M\(\text{B}\)sbauer spectrometer using synchrotron radiation and its application to ultrahigh-pressure studies with a diamond anvil cell. <i>Journal of Synchrotron Radiation</i> , 2009 , 16, 723-9	2.4	60
24	In situ XRD for pseudo Laves phases hydrides highlighting the remained cubic structure. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3038-3043	6.7	16

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23	The effect of substitutional elements (Al, Co) in LaNi4.5M0.5 on the lattice defect formation in the initial hydrogenation and dehydrogenation. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 87-93	5.7	17
22	Behavior of vacancy formation and recovery during hydrogenation cycles in LaNi4.93Sn0.27. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 205-211	5.7	13
21	Hydrogenation of CaLi2⊠Mgx (0 িk ြ2) with C14 Laves phase structure. <i>Journal of Alloys and Compounds</i> , 2009 , 482, L18-L21	5.7	6
20	Phase transformation of the La0.7Mg0.3Ni2.8Co0.5-H2 system studied by in situ X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2009 , 485, 174-180	5.7	18
19	Effect of rare earth on lattice size and equilibrium hydrogen pressure for AB5-type MmNi3.55Co0.75Al0.30Mn0.40. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 215-219	5.7	8
18	Investigations on the Formation and Decomposition Behaviors of BaAlH5 and Ba2AlH7. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17423-17426	3.8	5
17	In situ X-ray diffraction under H2 of the pseudo-AB2 compounds: YNi3.5Al0.5Mg. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2053-2058	6.7	14
16	A preliminary study of some pseudo-AB2D ompounds: RENi4Mg with RE=La, Ce and Gd. Structural and hydrogen sorption properties. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2422-2428	6.7	45
15	Lattice expansion for MmNi4.30-xCoxAl0.30Mn0.40 (x=0,0.75) studied by in situ X-ray diffraction. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3435-3441	6.7	7
14	Positron lifetime study on the degradation of LaNi5 and LaNi4.8Sn0.2 during hydrogen absorption-desorption cycling. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 3510	-3513	5
13	Crystal structure and hydrogen storage properties of LaMgNito alloy with superstructure. <i>Scripta Materialia</i> , 2007 , 57, 545-548	5.6	40
12	Formation of lattice strain in MmNi4.30-xCoxAl0.30Mn0.40MmNi4.30-xCoxAl0.30Mn0.40 (x=0,0.75)(x=0,0.75) during hydrogenation. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4202-420	o§·7	6
11	The effect of hydrogen on vacancy generation in iron by plastic deformation. <i>Scripta Materialia</i> , 2006 , 55, 1031-1034	5.6	110
10	The effect of the hydrogenation process on the production of lattice defects in Pd. <i>Journal of Alloys and Compounds</i> , 2006 , 414, 204-206	5.7	7
9	Lattice Defect Behavior of LaNi4.97Sn0.27 during Hydrogenation Cycles. <i>Materials Transactions</i> , 2006 , 47, 1875-1877	1.3	1
8	The effect of hydrogenated phase transformation on hydrogen-related vacancy formation in Pd1NAgx alloy. <i>Acta Materialia</i> , 2006 , 54, 4641-4645	8.4	7
7	The observation of the lattice defect formation during the hydrogenation and dehydrogenation in La(Ni,Sn)5 by in-situ positron lifetime measurement. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 885, 1		1
6	Sub-nano and Nano-structures of Hydrides of LaNi5 and its related Intermetallics. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 842, 178		

5	Solid State Ionics, 2004 , 172, 149-153	3.3	3
4	Theoretical calculation of positron lifetimes for LaNi5⊞ system. <i>Journal of Alloys and Compounds</i> , 2003 , 356-357, 186-190	5.7	19
3	Hydrogen-Induced Vacancy Generation Phenomenon in Pure Pd. Materials Transactions, 2002, 43, 2652-	2655	23
2	Recovery of Hydrogen Induced Defects and Thermal Desorption of Residual Hydrogen in LaNi5. <i>Materials Transactions</i> , 2002 , 43, 1494-1497	1.3	18
1	Positron annihilation study of lattice defects induced by hydrogen absorption in some hydrogen storage materials. <i>Journal of Alloys and Compounds</i> , 2002 , 330-332, 125-131	5.7	53