

Thomas Klassen

List of Publications by Year in descending order

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271
times ranked

5250
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxides as catalysts for improved hydrogen sorption in nanocrystalline Mg-based materials. Journal of Alloys and Compounds, 2001, 315, 237-242.	5.5	716
2	Cold spraying – A materials perspective. Acta Materialia, 2016, 116, 382-407.	7.9	607
3	Fast hydrogen sorption kinetics of nanocrystalline Mg using Nb ₂ O ₅ as catalyst. Scripta Materialia, 2003, 49, 213-217.	5.2	531
4	Application of hydrides in hydrogen storage and compression: Achievements, outlook and perspectives. International Journal of Hydrogen Energy, 2019, 44, 7780-7808.	7.1	486
5	From Particle Acceleration to Impact and Bonding in Cold Spraying. Journal of Thermal Spray Technology, 2009, 18, 794.	3.1	460
6	Hydrogen storage in magnesium-based hydrides and hydride composites. Scripta Materialia, 2007, 56, 841-846.	5.2	430
7	Effect of Nb ₂ O ₅ content on hydrogen reaction kinetics of Mg. Journal of Alloys and Compounds, 2004, 364, 242-246.	5.5	386
8	Hydrogen sorption properties of MgH ₂ –LiBH ₄ composites. Acta Materialia, 2007, 55, 3951-3958.	7.9	350
9	Unexpected kinetic effect of MgB ₂ in reactive hydride composites containing complex borohydrides. Journal of Alloys and Compounds, 2007, 440, L18-L21.	5.5	305
10	On Parameter Selection in Cold Spraying. Journal of Thermal Spray Technology, 2011, 20, 1161-1176.	3.1	300
11	Kinetic investigation of the effect of milling time on the hydrogen sorption reaction of magnesium catalyzed with different Nb ₂ O ₅ contents. Journal of Alloys and Compounds, 2006, 407, 249-255.	5.5	291
12	Catalytic Mechanism of Transition-Metal Compounds on Mg Hydrogen Sorption Reaction. Journal of Physical Chemistry B, 2006, 110, 11020-11024.	2.6	240
13	MgH with NbO as additive, for hydrogen storage: Chemical, structural and kinetic behavior with heating. Acta Materialia, 2006, 54, 105-110.	7.9	240
14	Comparison of the catalytic effects of V, V ₂ O ₅ , VN, and VC on the hydrogen sorption of nanocrystalline Mg. Journal of Alloys and Compounds, 2001, 322, L5-L9.	5.5	238
15	Effect of Nb ₂ O ₅ on MgH ₂ properties during mechanical milling. International Journal of Hydrogen Energy, 2007, 32, 2400-2407.	7.1	202
16	Tailoring Hydrogen Storage Materials Towards Application. Advanced Engineering Materials, 2006, 8, 377-385.	3.5	197
17	Cycling and thermal stability of nanostructured MgH ₂ –Cr ₂ O ₃ composite for hydrogen storage. Journal of Alloys and Compounds, 2002, 347, 319-323.	5.5	193
18	Role of additives in LiBH ₄ –MgH ₂ reactive hydride composites for sorption kinetics. Acta Materialia, 2010, 58, 3381-3389.	7.9	193

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19	Improvement in H-sorption kinetics of MgH powders by using Fe nanoparticles generated by reactive FeF addition. Scripta Materialia, 2005, 52, 719-724.	5.2	174
20	Hydrogen sorption improvement of nanocrystalline MgH ₂ by Nb ₂ O ₅ nanoparticles. Scripta Materialia, 2006, 54, 1293-1297.	5.2	129
21	Chemical and microstructural study of the oxygen passivation behaviour of nanocrystalline Mg and MgH ₂ . Applied Surface Science, 2006, 252, 2334-2345.	6.1	128
22	Critical assessment and thermodynamic modeling of the Mg-H system. International Journal of Hydrogen Energy, 1999, 24, 989-1004.	7.1	126
23	Using MgO to improve the (de)hydriding properties of magnesium. Materials Research Bulletin, 2006, 41, 1118-1126.	5.2	125
24	Influence of Impact Angle and Gas Temperature on Mechanical Properties of Titanium Cold Spray Deposits. Journal of Thermal Spray Technology, 2011, 20, 234-242.	3.1	124
25	BALL MILLING OF SYSTEMS WITH POSITIVE HEAT OF MIXING: EFFECT OF TEMPERATURE IN Ag-Cu. Acta Materialia, 1997, 45, 2921-2930.	7.9	122
26	Mg-based materials for hydrogen storage. Journal of Magnesium and Alloys, 2021, 9, 1837-1860.	11.9	117
27	Nb ₂ O ₅ Pathway Effect on Hydrogen Sorption in Mg. Journal of Physical Chemistry B, 2006, 110, 7845-7850.	2.6	111
28	Formation of supersaturated solid solutions in the immiscible Ni-Ag system by mechanical alloying. Journal of Applied Physics, 1996, 79, 3935.	2.5	108
29	Formation of Ca(BH ₄) ₂ from Hydrogenation of CaH ₂ +MgB ₂ Composite. Journal of Physical Chemistry C, 2008, 112, 2743-2749.	3.1	106
30	Metal hydrides for concentrating solar thermal power energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	95
31	Mechanical and thermal decomposition of LiAlH ₄ with metal halides. International Journal of Hydrogen Energy, 2007, 32, 1033-1040.	7.1	90
32	The formation of metastable Ti-Al solid solutions by mechanical alloying and ball milling. Journal of Materials Research, 1993, 8, 2819-2829.	2.6	82
33	Influence of thermal properties and temperature of substrate on the quality of cold-sprayed deposits. Acta Materialia, 2017, 127, 287-301.	7.9	79
34	Single Impact Bonding of Cold Sprayed Ti-6Al-4V Powders on Different Substrates. Journal of Thermal Spray Technology, 2015, 24, 644-658.	3.1	78
35	Thermodynamic analysis of the hydriding process of Mg-Ni alloys. Journal of Alloys and Compounds, 1999, 283, 213-224.	5.5	77
36	Nanoconfined 2LiBH ₄ -MgH ₂ Prepared by Direct Melt Infiltration into Nanoporous Materials. Journal of Physical Chemistry C, 2011, 115, 10903-10910.	3.1	75

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37	Hydrogen storage systems from waste Mg alloys. <i>Journal of Power Sources</i> , 2014, 270, 554-563.	7.8	75
38	Industrial production of light metal hydrides for hydrogen storage. <i>Scripta Materialia</i> , 2007, 56, 847-851.	5.2	74
39	Thermal and mechanically activated decomposition of LiAlH ₄ . <i>Materials Research Bulletin</i> , 2008, 43, 1263-1275.	5.2	74
40	Competition between stable and metastable phases during mechanical alloying and ball milling. <i>Physica Status Solidi A</i> , 1992, 131, 671-689.	1.7	73
41	H-sorption in MgH ₂ nanocomposites containing Fe or Ni with fluorine. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 409-412.	5.5	73
42	Formation of Cold-Sprayed Ceramic Titanium Dioxide Layers on Metal Surfaces. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 292-298.	3.1	71
43	Room temperature mechanical behavior of silicon-doped TiAl alloys with grain sizes in the nano- and submicron-range. <i>Acta Materialia</i> , 2001, 49, 299-311.	7.9	70
44	Synthesis of nanocomposites and amorphous alloys by mechanical alloying. <i>Journal of Materials Science</i> , 2011, 46, 6301-6315.	3.7	69
45	<i>In situ</i> X-ray diffraction environments for high-pressure reactions. <i>Journal of Applied Crystallography</i> , 2015, 48, 1234-1241.	4.5	67
46	Thermal stability of nanocrystalline magnesium for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 499-502.	5.5	66
47	The early stages of phase formation during mechanical alloying of Ti-Al. <i>Journal of Materials Research</i> , 1994, 9, 47-52.	2.6	65
48	Analysis of Thermal History and Residual Stress in Cold-Sprayed Coatings. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 84-90.	3.1	60
49	Solid State Hydrogen Storage in Alanates and Alanate-Based Compounds: A Review. <i>Metals</i> , 2018, 8, 567.	2.3	60
50	Comment on "Adiabatic shear instability is not necessary for adhesion in cold spray". <i>Scripta Materialia</i> , 2019, 162, 512-514.	5.2	59
51	Mechanical behavior of submicron-grained β -TiAl-based alloys at elevated temperatures. <i>Intermetallics</i> , 2001, 9, 559-569.	3.9	58
52	Effect of Transition Metal Fluorides on the Sorption Properties and Reversible Formation of Ca(BH ₄) ₂ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 2497-2504.	3.1	58
53	Destabilization of LiBH ₄ by nanoconfinement in PMMA-co-BM polymer matrix for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5019-5029.	7.1	58
54	Tetrahydroborates: Development and Potential as Hydrogen Storage Medium. <i>Inorganics</i> , 2017, 5, 74.	2.7	58

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55	Inverse melting in the Ti-Cr system. Physical Review B, 1993, 47, 8520-8527.	3.2	54
56	Waste Mg-Al based alloys for hydrogen storage. International Journal of Hydrogen Energy, 2018, 43, 16738-16748.	7.1	54
57	Nanoconfinement effects on hydrogen storage properties of MgH ₂ and LiBH ₄ . International Journal of Hydrogen Energy, 2021, 46, 23723-23736.	7.1	50
58	Effect of nanosized oxides on MgH ₂ (de)hydriding kinetics. Journal of Alloys and Compounds, 2007, 434-435, 738-742.	5.5	49
59	Nanoconfined 2LiBH ₄ •MgH ₂ •TiCl ₃ in carbon aerogel scaffold for reversible hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 3275-3282.	7.1	49
60	Cold Spraying of Ti ₂ AlC MAX-Phase Coatings. Journal of Thermal Spray Technology, 2013, 22, 406-412.	3.1	49
61	Recent Progress and New Perspectives on Metal Amide and Imide Systems for Solid-State Hydrogen Storage. Energies, 2018, 11, 1027.	3.1	49
62	Optimization of hydrogen storage tubular tanks based on light weight hydrides. International Journal of Hydrogen Energy, 2012, 37, 2825-2834.	7.1	47
63	Effect of Substrate Temperature on Cold-Gas-Sprayed Coatings on Ceramic Substrates. Journal of Thermal Spray Technology, 2013, 22, 422-432.	3.1	47
64	Nanoconfined 2LiBH ₄ •MgH ₂ for reversible hydrogen storages: Reaction mechanisms, kinetics and thermodynamics. International Journal of Hydrogen Energy, 2013, 38, 1932-1942.	7.1	46
65	Microscopic mechanisms of metastable phase formation during ball milling of intermetallic TiAl phases. Acta Materialia, 1997, 45, 3935-3948.	7.9	45
66	Reversible hydrogen storage in NaF•Al composites. Journal of Alloys and Compounds, 2009, 477, 76-80.	5.5	44
67	2LiBH ₄ •MgH ₂ in a Resorcinol•Furfural Carbon Aerogel Scaffold for Reversible Hydrogen Storage. Journal of Physical Chemistry C, 2012, 116, 1526-1534.	3.1	44
68	Behavior of scaled-up sodium alanate hydrogen storage tanks during sorption. International Journal of Hydrogen Energy, 2012, 37, 2807-2811.	7.1	44
69	Thermodynamics of the Ni•H system. Journal of Alloys and Compounds, 1999, 283, 151-161.	5.5	43
70	Hydrogen Sorption of Nanocrystalline Mg at Reduced Temperatures by Metal-Oxide Catalysts. Advanced Engineering Materials, 2001, 3, 487-490.	3.5	43
71	Synthesis of NaAlH ₄ -based hydrogen storage material using milling under low pressure hydrogen atmosphere. Journal of Alloys and Compounds, 2007, 430, 350-355.	5.5	43
72	Experimental Evidence of Ca[B ₁₂ H ₁₂] Formation During Decomposition of a Ca(BH ₄) ₂ + MgH ₂ Based Reactive Hydride Composite. Journal of Physical Chemistry C, 2011, 115, 18010-18014.	3.1	43

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73	Characterization of metal hydrides by in-situ XRD. International Journal of Hydrogen Energy, 2014, 39, 9899-9903.	7.1	43
74	Impact Conditions for Cold Spraying of Hard Metallic Glasses. Journal of Thermal Spray Technology, 2012, 21, 531-540.	3.1	40
75	Effective nanoconfinement of 2LiBH ₄ + MgH ₂ via simply MgH ₂ premilling for reversible hydrogen storages. International Journal of Hydrogen Energy, 2014, 39, 15614-15626.	7.1	39
76	Influence of impurities on the milling process of MgH ₂ . Journal of Alloys and Compounds, 2007, 434-435, 729-733.	5.5	38
77	Activation of the reactive hydride composite 2NaBH ₄ +MgH ₂ . Scripta Materialia, 2011, 64, 1035-1038.	5.2	37
78	Sorption behavior of the MgH ₂ +Mg ₂ FeH ₆ hydride storage system synthesized by mechanical milling followed by sintering. International Journal of Hydrogen Energy, 2013, 38, 14618-14630.	7.1	37
79	Compaction pressure influence on material properties and sorption behaviour of LiBH ₄ +MgH ₂ composite. International Journal of Hydrogen Energy, 2013, 38, 8357-8366.	7.1	37
80	Mg-Based Hydrogen Storage Materials with Improved Hydrogen Sorption. Materials Transactions, 2001, 42, 1588-1592.	1.2	36
81	Metallization of Thin Al ₂ O ₃ Layers in Power Electronics Using Cold Gas Spraying. Journal of Thermal Spray Technology, 2011, 20, 299-306.	3.1	36
82	Economic potential of complex hydrides compared to conventional hydrogen storage systems. International Journal of Hydrogen Energy, 2012, 37, 4204-4214.	7.1	36
83	2LiBH ₄ +MgH ₂ +0.13TiCl ₄ confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage. Journal of Alloys and Compounds, 2014, 599, 78-86.	5.5	36
84	Hydrogen storage in Mg+LiBH ₄ composites catalyzed by FeF ₃ . Journal of Power Sources, 2014, 267, 799-811.	7.8	36
85	Ca(BH ₄) ₂ + MgH ₂ : Desorption Reaction and Role of Mg on Its Reversibility. Journal of Physical Chemistry C, 2013, 117, 3846-3852.	3.1	35
86	Enhanced volumetric hydrogen density in sodium alanate by compaction. Journal of Power Sources, 2011, 196, 9254-9259.	7.8	32
87	Design, sorption behaviour and energy management in a sodium alanate-based lightweight hydrogen storage tank. International Journal of Hydrogen Energy, 2015, 40, 2984-2988.	7.1	32
88	Two-body abrasive wear of nano- and microcrystalline Ti+Ni-based thermal spray coatings. Surface and Coatings Technology, 2006, 200, 5037-5047.	4.8	31
89	Improved hydrogen sorption of sodium alanate by optimized processing. Journal of Alloys and Compounds, 2008, 465, 310-316.	5.5	31
90	Effect of Fe additive on the hydrogenation-dehydrogenation properties of 2LiH+MgH ₂ /2LiBH ₄ +MgH ₂ system. Journal of Power Sources, 2015, 284, 606-616.	7.8	31

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91	Determination of plastic constitutive properties of microparticles through single particle compression. <i>Advanced Powder Technology</i> , 2015, 26, 1544-1554.	4.1	31
92	Development of a modular room-temperature hydride storage system for vehicular applications. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	30
93	2LiBH ₄ â€MgH ₂ nanoconfined into carbon aerogel scaffold impregnated with ZrCl ₄ for reversible hydrogen storage. <i>Materials Chemistry and Physics</i> , 2016, 169, 136-141.	4.0	30
94	Improvement of thermal stability and reduction of LiBH ₄ /polymer host interaction of nanoconfined LiBH ₄ for reversible hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 392-402.	7.1	29
95	Metal Injection Molding (MIM) of Magnesium and Its Alloys. <i>Metals</i> , 2016, 6, 118.	2.3	29
96	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.	3.1	29
97	In Situ Formation of TiB ₂ Nanoparticles for Enhanced Dehydrogenation/Hydrogenation Reaction Kinetics of LiBH ₄ â€MgH ₂ as a Reversible Solid-State Hydrogen Storage Composite System. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11671-11681.	3.1	29
98	Ca(BH ₄) ₂ â€Mg ₂ NiH ₄ : on the pathway to a Ca(BH ₄) ₂ system with a reversible hydrogen cycle. <i>Chemical Communications</i> , 2016, 52, 4836-4839.	4.1	28
99	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. <i>Chemistry - A European Journal</i> , 2017, 23, 9766-9771.	3.3	28
100	Production of nanocrystalline cermet thermal spray powders for wear resistant coatings by high-energy milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 356, 114-121.	5.6	27
101	Magnesium powder injection moulding for biomedical application. <i>Powder Metallurgy</i> , 2014, 57, 331-340.	1.7	27
102	A novel catalytic route for hydrogenationâ€dehydrogenation of 2LiH + MgB ₂ via in situ formed coreâ€shell Li _x TiO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12922-12933.	10.3	27
103	Low-temperature superplasticity in ultrafine-grained Ti ₅ Si ₃ â€TiAl composites. <i>Scripta Materialia</i> , 2008, 59, 455-458.	5.2	25
104	Characterization of Hydrogen Storage Materials and Systems with Photons and Neutrons. <i>Advanced Engineering Materials</i> , 2011, 13, 730-736.	3.5	25
105	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH ₄) ₂ System. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4394-4403.	3.1	25
106	Structural and kinetic investigation of the hydride composite Ca(BH ₄) ₂ + MgH ₂ system doped with NbF ₅ for solid-state hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27328-27342.	2.8	25
107	Changing the dehydrogenation pathway of LiBH ₄ â€MgH ₂ via nanosized lithiated TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7455-7460.	2.8	25
108	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.	3.3	25

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109	The effect of ultrafine grained microstructures on the hot-workability of intermetallic/ceramic composites based on $\text{I}^3\text{-TiAl}$. <i>Intermetallics</i> , 2001, 9, 45-49.	3.9	24
110	$\text{Ca}(\text{BH}_{4/2})\sim\text{MgF}_{2/2}$ Reversible Hydrogen Storage: Reaction Mechanisms and Kinetic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3762-3768.	3.1	24
111	Photocatalytic degradation of oxalic and dichloroacetic acid on TiO_2 coated metal substrates. <i>Catalysis Today</i> , 2013, 209, 84-90.	4.4	24
112	Influence of spraying parameters on cold gas spraying of iron aluminide intermetallics. <i>Surface and Coatings Technology</i> , 2015, 268, 99-107.	4.8	24
113	Magnesium Powder Injection Molding (MIM) of Orthopedic Implants for Biomedical Applications. <i>Jom</i> , 2016, 68, 1191-1197.	1.9	24
114	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.	3.1	24
115	Advanced Alumina Composites Reinforced with Titanium-Based Alloys. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1509-1513.	3.8	23
116	MgH_2 as dopant for improved activation of commercial Mg ingot. <i>Journal of Alloys and Compounds</i> , 2013, 575, 364-369.	5.5	23
117	Microstructures and properties of nanostructured thermal sprayed coatings using high-energy milled cermet powders. <i>Surface and Coatings Technology</i> , 2005, 195, 344-357.	4.8	22
118	Processing and Properties of Intermetallic/Ceramic Composites with Interpenetrating Microstructure. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2504-2506.	3.8	22
119	Basic principles and application potentials of cold gas spraying. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010, 41, 575-584.	0.9	22
120	Air-stable metal hydride-polymer composites of $\text{Mg}(\text{NH}_2)_2\text{-LiH}$ and $\text{TPX}_{\text{„f}}$. <i>Materials Today Energy</i> , 2018, 10, 98-107.	4.7	22
121	Efficient Synthesis of Alkali Borohydrides from Mechanochemical Reduction of Borates Using Magnesium-Aluminum-Based Waste. <i>Metals</i> , 2019, 9, 1061.	2.3	22
122	Cold sprayed WO_3 and TiO_2 electrodes for photoelectrochemical water and methanol oxidation in renewable energy applications. <i>Dalton Transactions</i> , 2017, 46, 12811-12823.	3.3	21
123	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.	3.1	21
124	Tuning the reaction mechanism and hydrogenation/dehydrogenation properties of $6\text{Mg}(\text{NH}_2)_2\text{9LiH}$ system by adding LiBH_4 . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11920-11929.	7.1	21
125	Optimization Adhesion in Cold Spraying onto Hard Substrates: A Case Study for Brass Coatings. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 124-134.	3.1	21
126	Catalyzed $\text{Na}_2\text{LiAlH}_6$ for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 771-774.	5.5	20

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127	Thermodynamic properties and absorption-desorption kinetics of Mg ₈₇ Ni ₁₀ Al ₃ alloy synthesised by reactive ball milling under H ₂ atmosphere. Journal of Alloys and Compounds, 2005, 404-406, 27-30.	5.5	20
128	SANS/USANS investigations of nanocrystalline MgH ₂ for reversible storage of hydrogen. Physica B: Condensed Matter, 2006, 385-386, 630-632.	2.7	20
129	A search for new Mg- and K-containing alanates for hydrogen storage. International Journal of Hydrogen Energy, 2009, 34, 4582-4586.	7.1	20
130	Structural analysis of calcium reactive hydride composite for solid state hydrogen storage. Journal of Applied Crystallography, 2014, 47, 67-75.	4.5	20
131	First Direct Study of the Ammonolysis Reaction in the Most Common Alkaline and Alkaline Earth Metal Hydrides by <i>in Situ</i> SR-PXD. Journal of Physical Chemistry C, 2015, 119, 934-943.	3.1	20
132	Charge Transfer in c-Si(n ⁺⁺)/TiO ₂ (ALD) at the Amorphous/Anatase Transition: A Transient Surface Photovoltage Spectroscopy Study. ACS Applied Materials & Interfaces, 2020, 12, 3140-3149.	8.0	20
133	Designing an AB ₂ -Type Alloy (TiZr-CrMnMo) for the Hybrid Hydrogen Storage Concept. Energies, 2020, 13, 2751.	3.1	20
134	Property prediction and crack growth behavior in cold sprayed Cu deposits. Materials and Design, 2021, 206, 109826.	7.0	20
135	Ion beam synthesis of deep buried NiSi ₂ layers in silicon by 6 MeV Ni implantation. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 655-659.	1.4	19
136	Phase stability and hydrogen desorption in a quinary equimolar mixture of light-metals borohydrides. International Journal of Hydrogen Energy, 2018, 43, 16793-16803.	7.1	19
137	Size Effects of Brittle Particles in Aerosol Deposition-Molecular Dynamics Simulation. Journal of Thermal Spray Technology, 2021, 30, 503-522.	3.1	19
138	Sorption properties and reversibility of Ti(IV) and Nb(V)-fluoride doped-Ca(BH ₄) ₂ -MgH ₂ system. Journal of Alloys and Compounds, 2015, 622, 989-994.	5.5	18
139	New synthesis route for ternary transition metal amides as well as ultrafast amide-hydride hydrogen storage materials. Chemical Communications, 2016, 52, 5100-5103.	4.1	18
140	The effect of Sr(OH) ₂ on the hydrogen storage properties of the Mg(NH ₂) ₂ -LiH system. Physical Chemistry Chemical Physics, 2017, 19, 8457-8464.	2.8	18
141	Optimization of Inconel 718 thick deposits by cold spray processing and annealing. Surface and Coatings Technology, 2019, 378, 124997.	4.8	18
142	Scale-up of milling in a 100 ÅL device for processing of TiFeMn alloy for hydrogen storage applications: Procedure and characterization. International Journal of Hydrogen Energy, 2019, 44, 29282-29290.	7.1	18
143	Nanostructure control of materials. , 2006, , .		18
144	Influence of particle size on electrochemical and gas-phase hydrogen storage in nanocrystalline Mg. Journal of Alloys and Compounds, 2008, 463, 539-545.	5.5	17

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145	Effect of the Partial Replacement of $\text{CaH}_{2\text{sub}}2\text{sub}$ with $\text{CaF}_{2\text{sub}}2\text{sub}$ in the Mixed System $\text{CaH}_{2\text{sub}}2\text{sub} + \text{MgB}_{2\text{sub}}2\text{sub}$. Journal of Physical Chemistry C, 2014, 118, 28409-28417.	3.1	17
146	New Insight on the Hydrogen Absorption Evolution of the $\text{Mg}\text{--}\text{Fe}\text{--}\text{H}$ System under Equilibrium Conditions. Metals, 2018, 8, 967.	2.3	17
147	$3\text{CaH}_{2\text{sub}}2\text{sub} + 4\text{MgB}_{2\text{sub}}2\text{sub} + \text{CaF}_{2\text{sub}}2\text{sub}$ Reactive Hydride Composite as a Potential Hydrogen Storage Material: Hydrogenation and Dehydrogenation Pathway. Journal of Physical Chemistry C, 2012, 116, 7207-7212.	3.1	16
148	Strain-Induced Phase Transformation of MCrAlY . Advanced Engineering Materials, 2015, 17, 723-731.	3.5	16
149	Cyclic stability and structure of nanoconfined Ti-doped NaAlH_4 . International Journal of Hydrogen Energy, 2016, 41, 4159-4167.	7.1	16
150	$\text{Li}_{2\text{sub}}2\text{sub}\text{NH}\text{--}\text{LiBH}_{4\text{sub}}4\text{sub}$: a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. Chemistry - A European Journal, 2018, 24, 1342-1347.	3.3	16
151	Conversion of magnesium waste into a complex magnesium hydride system: $\text{Mg}(\text{NH}_{2\text{sub}}2\text{sub})_{2\text{sub}}2\text{sub}\text{--}\text{LiH}$. Sustainable Energy and Fuels, 2020, 4, 1915-1923.	4.9	16
152	Features of ceramic nanoparticle deformation in aerosol deposition explored by molecular dynamics simulation. Surface and Coatings Technology, 2022, 429, 127886.	4.8	16
153	Effect of nitrogen flow rate on microstructures and mechanical properties of metallic coatings by warm spray deposition. Surface and Coatings Technology, 2013, 232, 587-599.	4.8	15
154	Patterned CoCrMo and $\text{Al}_{2\text{sub}}2\text{sub}\text{O}_{3\text{sub}}3\text{sub}$ surfaces for reduced free wear debris in artificial joint arthroplasty. Journal of Biomedical Materials Research - Part A, 2013, 101, 3447-3456.	4.0	15
155	Metal Hydride-Based Hydrogen Storage Tank Coupled with an Urban Concept Fuel Cell Vehicle: Off Board Tests. Advanced Sustainable Systems, 2018, 2, 1800004.	5.3	15
156	Solid-state additive manufacturing of porous Ti-6Al-4V by supersonic impact. Applied Materials Today, 2020, 21, 100865.	4.3	15
157	The catalytic effect of Nb_2O_5 on the electrochemical hydrogenation of nanocrystalline magnesium. Journal of Alloys and Compounds, 2006, 413, 298-301.	5.5	14
158	Structural study of a new B-rich phase obtained by partial hydrogenation of $2\text{NaH} + \text{MgB}_2$. International Journal of Hydrogen Energy, 2013, 38, 10479-10484.	7.1	14
159	Simultaneous desorption behavior of M borohydrides and Mg_2FeH_6 reactive hydride composites ($\text{M} = \text{Tj ETQq1 1 0.784314 rgBT /Over$	3.3	14
160	$\text{KNH}_{2\text{sub}}2\text{sub}\text{--}\text{KH}$: a metal amide-hydride solid solution. Chemical Communications, 2016, 52, 11760-11763.	4.1	14
161	Cold gas spraying - A promising technique for photoelectrodes. Catalysis Today, 2016, 260, 140-147.	4.4	14
162	A new mutually destabilized reactive hydride system: $\text{LiBH}_4\text{--}\text{Mg}_2\text{NiH}_4$. Journal of Energy Chemistry, 2019, 34, 240-254.	12.9	14

#	ARTICLE	IF	CITATIONS
163	Enhanced Stability of Li-RHC Embedded in an Adaptive TPX ₆ Polymer Scaffold. <i>Materials</i> , 2020, 13, 991.	2.9	14
164	Tailoring powder strengths for enhanced quality of cold sprayed Al6061 deposits. <i>Materials and Design</i> , 2022, 215, 110494.	7.0	14
165	Cold Spraying of Cu-Al-Bronze for Cavitation Protection in Marine Environments. <i>Journal of Thermal Spray Technology</i> , 2015, 24, 126.	3.1	13
166	Ternary Amides Containing Transition Metals for Hydrogen Storage: A Case Study with Alkali Metal Amidozincates. <i>ChemSusChem</i> , 2015, 8, 3777-3782.	6.8	13
167	Differential Scanning Calorimetry (DSC) and Synchrotron X-ray Diffraction Study of Unmilled and Milled LiBH ₄ : A Partial Release of Hydrogen at Moderate Temperatures. <i>Crystals</i> , 2012, 2, 1-21.	2.2	12
168	Effect of NaH/MgB ₂ ratio on the hydrogen absorption kinetics of the system NaH+MgB ₂ . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5030-5036.	7.1	12
169	Transport phenomena versus intrinsic kinetics: Hydrogen sorption limiting sub-process in metal hydride beds. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18952-18957.	7.1	12
170	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.	5.5	12
171	Synthesis of Mg ₂ FeD ₆ under low pressure conditions for Mg ₂ FeH ₆ hydrogen storage studies. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11422-11428.	7.1	12
172	Effects of Stoichiometry on the H ₂ Storage Properties of Mg(NH ₂) ₂ •LiH+LiBH ₄ Tri-Component Systems. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1758-1764.	3.3	12
173	In vitro biodegradation testing of Mg-alloy EZK400 and manufacturing of implant prototypes using PM (powder metallurgy) methods. <i>Bioactive Materials</i> , 2018, 3, 213-217.	15.6	12
174	Mechanically induced grain refinement, recovery and recrystallization of cold-sprayed iron aluminide coatings. <i>Surface and Coatings Technology</i> , 2019, 380, 125069.	4.8	12
175	Hydrogen sorption kinetics, hydrogen permeability, and thermal properties of compacted 2LiBH ₄ MgH ₂ doped with activated carbon nanofibers. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 15218-15227.	7.1	12
176	Synthesis, structures and thermal decomposition of ammine MxB ₁₂ H ₁₂ complexes (M = Li, Na, Ca). <i>Dalton Transactions</i> , 2017, 46, 7770-7781.	3.3	11
177	Insights into the Rb+Mg+Na+H System: an Ordered Mixed Amide/Imide Phase and a Disordered Amide/Hydride Solid Solution. <i>Inorganic Chemistry</i> , 2018, 57, 3197-3205.	4.0	11
178	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.	2.3	11
179	Influence of MAX-Phase Deformability on Coating Formation by Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 617-642.	3.1	11
180	Development and experimental validation of kinetic models for the hydrogenation/dehydrogenation of Mg/Al based metal waste for energy storage. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 2761-2774.	11.9	11

#	ARTICLE	IF	CITATIONS
181	Nanocrystalline Mg-Based Hydrides: Hydrogen Storage for the Zero-Emission Vehicle. Materials Science Forum, 2001, 360-362, 603-608.	0.3	10
182	Investigation of (Mg, Al, Li, H)-based hydride and alanate mixtures produced by reactive ball milling. Journal of Alloys and Compounds, 2009, 476, 425-428.	5.5	10
183	Sorption and desorption properties of a CaH ₂ /MgB ₂ /CaF ₂ reactive hydride composite as potential hydrogen storage material. Journal of Solid State Chemistry, 2011, 184, 3104-3109.	2.9	10
184	Mechanical characterization of mechanically alloyed ultrafine-grained Ti ₅ Si ₃ +40vol% β -TiAl composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 18-25.	5.6	10
185	Cold Spraying of Amorphous Cu ₅₀ Zr ₅₀ Alloys. Journal of Thermal Spray Technology, 2014, 24, 108.	3.1	10
186	A new potassium-based intermediate and its role in the desorption properties of the K-Mg-N-H system. Physical Chemistry Chemical Physics, 2016, 18, 3910-3920.	2.8	10
187	Kinetic alteration of the 6Mg(NH ₂) ₂ ·2LiH·4LiBH ₄ system by co-adding YCl ₃ and Li ₃ N. Physical Chemistry Chemical Physics, 2017, 19, 32105-32115.	2.8	10
188	Process Selection for the Fabrication of Cavitation Erosion-Resistant Bronze Coatings by Thermal and Kinetic Spraying in Maritime Applications. Journal of Thermal Spray Technology, 2021, 30, 1310-1328.	3.1	10
189	In Situ X-ray Diffraction Studies on the De/rehydrogenation Processes of the K ₂ [Zn(NH ₂) ₂] ₄ ·8LiH System. Journal of Physical Chemistry C, 2017, 121, 1546-1551.	3.1	10
190	Influence of Stoichiometry on the Hydrogen Sorption Behavior in the Li-MgB ₂ System. Journal of Physical Chemistry C, 2012, 116, 7010-7015.	3.1	9
191	Optimization and comprehensive characterization of metal hydride based hydrogen storage systems using in-situ Neutron Radiography. Journal of Power Sources, 2016, 328, 567-577.	7.8	9
192	Warm Spraying of High-Strength Ni-Al-Bronze: Cavitation Characteristics and Property Prediction. Journal of Thermal Spray Technology, 2017, 26, 265-277.	3.1	9
193	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-N-H System. Energies, 2019, 12, 2779.	3.1	9
194	Characterization of BiVO ₄ powders and cold gas sprayed layers by surface photovoltage techniques. Catalysis Today, 2019, 321-322, 34-40.	4.4	9
195	Effects of Ni-loading contents on dehydrogenation kinetics and reversibility of Mg ₂ FeH ₆ . International Journal of Hydrogen Energy, 2021, 46, 32099-32109.	7.1	9
196	A hydride composite featuring mutual destabilisation and reversible boron exchange: Ca(BH ₄) ₂ ·Mg ₂ NiH ₄ . Journal of Materials Chemistry A, 2018, 6, 17929-17946.	10.3	8
197	Characterization of LiBH ₄ ·MgH ₂ Reactive Hydride Composite System with Scattering and Imaging Methods Using Neutron and Synchrotron Radiation. Advanced Engineering Materials, 2021, 23, 2100294.	3.5	8
198	FUELS – HYDROGEN STORAGE High Temperature Hydrides. , 2009, , 459-472.		7

#	ARTICLE	IF	CITATIONS
199	NaAlH ₄ production from waste aluminum by reactive ball milling. International Journal of Hydrogen Energy, 2014, 39, 9877-9882.	7.1	7
200	Coating formation, fracture mode and cavitation performance of Fe ₄₀ Al deposited by cold gas spraying. Surface Engineering, 2015, 31, 853-859.	2.2	7
201	Synchrotron Diffraction Studies of Hydrogen Absorption/Desorption on CaH ₂ + MgB ₂ Reactive Hydride Composite Mixed With Fluorinated Compounds. Journal of Physical Chemistry C, 2015, 119, 11430-11437.	3.1	7
202	Optimized photoactive coatings prepared with functionalized TiO ₂ . International Journal of Hydrogen Energy, 2019, 44, 31800-31807.	7.1	7
203	Using the Emission of Muonic X-rays as a Spectroscopic Tool for the Investigation of the Local Chemistry of Elements. Nanomaterials, 2020, 10, 1260.	4.1	7
204	Ti-Al Alloys Prepared by Ball Milling and Hot Isostatic Pressing. Materials Research Society Symposia Proceedings, 1992, 288, 873.	0.1	6
205	Processing and Characterization of Novel Intermetallic/Ceramic Composites. Materials Science Forum, 1998, 269-272, 37-46.	0.3	6
206	Compaction of High-Energy Milled TiAlSi Powders by HIP: Simple Estimation of the Finest Grain Size Achievable in Fully Dense Materials. Advanced Engineering Materials, 2001, 3, 238-242.	3.5	6
207	Submicron-grained multiphase TiAlSi alloys: Processing, characterization, and microstructural design. Journal of Materials Research, 2001, 16, 1850-1861.	2.6	6
208	Influence of the Nb ₂ O ₅ distribution on the electrochemical hydrogenation of nanocrystalline magnesium. Journal of Alloys and Compounds, 2007, 434-435, 753-755.	5.5	6
209	Cold spraying of Cu-Al-Bronze for cavitation protection in marine environments. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 708-716.	0.9	6
210	A comprehensive study on lithium-based reactive hydride composite (Li-RHC) as a reversible solid-state hydrogen storage system toward potential mobile applications. RSC Advances, 2021, 11, 23122-23135.	3.6	6
211	Sustainable NaAlH ₄ production from recycled automotive Al alloy. Green Chemistry, 2022, 24, 4153-4163.	9.0	6
212	An effective activation method for industrially produced TiFeMn powder for hydrogen storage. Journal of Alloys and Compounds, 2022, 919, 165847.	5.5	6
213	Nanocrystalline Mg-Based Hydrides: Hydrogen Storage for the Zero-Emission Vehicle. Journal of Metastable and Nanocrystalline Materials, 2001, 10, 603-608.	0.1	5
214	Research with Neutron and Synchrotron Radiation on Aerospace and Automotive Materials and Components. Advanced Engineering Materials, 2011, 13, 637-657.	3.5	5
215	Cold Gas Sprayed TiO ₂ -Based Electrodes for the Photo-Induced Water Oxidation. ECS Transactions, 2014, 58, 21-30.	0.5	5
216	Scattering influences in quantitative fission neutron radiography for the in situ analysis of hydrogen distribution in metal hydrides. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 797, 158-164.	1.6	5

#	ARTICLE	IF	CITATIONS
217	Modeling the kinetic behavior of the Li-RHC system for energy-hydrogen storage: (I) absorption. International Journal of Hydrogen Energy, 2021, 46, 32110-32125.	7.1	5
218	Nanocrystalline Composites for Thermal Spray Applications. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 933-940.	0.1	4
219	Nanocrystalline Composites for Thermal Spray Applications. Materials Science Forum, 2000, 343-346, 933-940.	0.3	4
220	Mechanical behavior and advanced processing of nano- and submicron-grained intermetallic compounds based on β -TiAl. Scripta Materialia, 2001, 44, 1479-1482.	5.2	4
221	Advanced Alumina Composites Reinforced with Nb-Based Alloys. Advanced Engineering Materials, 2002, 4, 121.	3.5	4
222	TiC-Based Cermet Coatings: Advanced Wear Performance by Nanocrystalline Microstructure. Advanced Engineering Materials, 2006, 8, 427-433.	3.5	4
223	Engineering Solutions in Scale-Up and Tank Design for Metal Hydrides. Materials Science Forum, 0, 941, 2220-2225.	0.3	4
224	Chemical and photoelectrochemical instability of amorphous TiO_2 layers quantified by spectroscopic ellipsometry. Journal of Materials Chemistry A, 2020, 8, 18173-18179.	10.3	4
225	Aerosol Deposition of Ti_3SiC_2 -MAX-Phase Coatings. Journal of Thermal Spray Technology, 2021, 30, 1121-1135.	3.1	4
226	Hydrogenation via a low energy mechanochemical approach: the MgB_2 case. JPhys Energy, 2021, 3, 044001.	5.3	4
227	Welcome to Hydrogen – A New International and Interdisciplinary Open Access Journal of Growing Interest in Our Society. Hydrogen, 2020, 1, 90-92.	3.4	4
228	Reactive Hydride Composite Confined in a Polymer Matrix: New Insights into the Desorption and Absorption of Hydrogen in a Storage Material with High Cycling Stability. Advanced Materials Technologies, 2022, 7, 2101584.	5.8	4
229	Inkjet Printing of Functionalized TiO_2 Catalytic Layer for Water Oxidation Reaction. Materials Research Society Symposia Proceedings, 2015, 1776, 13-17.	0.1	3
230	Hydrogenation Study of NaF/NaH/ MgB_2 Reactive Hydride Composites. Journal of Physical Chemistry C, 2017, 121, 4093-4102.	3.1	3
231	Aerosol-Deposited BiVO_4 Photoelectrodes for Hydrogen Generation. Journal of Thermal Spray Technology, 2021, 30, 603-616.	3.1	3
232	Metal Injection Molding (MIM) of Mg-Alloys. Minerals, Metals and Materials Series, 2018, , 239-251.	0.4	3
233	A Novel Emergency Gas-to-Power System Based on an Efficient and Long-Lasting Solid-State Hydride Storage System: Modeling and Experimental Validation. Energies, 2022, 15, 844.	3.1	3
234	Mechanisms of Phase Formation During Milling in the Ternary Immiscible AG-CU-FE System. Materials Research Society Symposia Proceedings, 1995, 400, 25.	0.1	2

#	ARTICLE	IF	CITATIONS
235	On the Hydrogenation of a NaH/AlB ₂ Mixture. Journal of Physical Chemistry C, 2015, 119, 22826-22831.	3.1	2
236	Enhanced Hydrogen Storage Properties of Li-RHC System with In-House Synthesized AlTi ₃ Nanoparticles. Energies, 2021, 14, 7853.	3.1	2
237	De-hydrogenation/Rehydrogenation Properties and Reaction Mechanism of AmZn(NH ₂) _n -2nLiH Systems (A = Li, K, Na, and Rb). Sustainability, 2022, 14, 1672.	3.2	2
238	Sinterforging and Indentation Creep of Nanophase TiAl. Materials Science Forum, 1997, 235-238, 881-886.	0.3	1
239	Nanocrystalline Mg-based hydrides for hydrogen storage. Materials Research Society Symposia Proceedings, 2001, 676, 451.	0.1	1
240	Effect of Nb ₂ O ₅ Content on Hydrogen Reaction Kinetics of Mg.. ChemInform, 2004, 35, no.	0.0	1
241	Nanocrystalline Metal Hydrides for Hydrogen Storage. , 2006, , 141-145.		1
242	Cold gas spraying of semiconductor coatings for the photooxidation of water. Proceedings of SPIE, 2013, , .	0.8	1
243	Nanocrystalline light metal hydrides for hydrogen storage. , 2006, , 266-302.		1
244	Knowledge-based Optimization of Cold Spray for Aircraft Component Repair. , 2021, , .		1
245	Effect of the particle size evolution on the hydrogen storage performance of KH doped Mg(NH ₂) ₂ +2LiH. Journal of Materials Science, 0, , .	3.7	1
246	Modeling of the Mechanical Alloying Process in Binary Systems. Materials Research Society Symposia Proceedings, 1995, 400, 19.	0.1	0
247	The Effects of Elevated Temperature Deformation on Nanocrystalline Titanium-Aluminum. Materials Research Society Symposia Proceedings, 1995, 400, 275.	0.1	0
248	Mechanical Properties of Intermetallic/Ceramic Composites Prepared by High Energy Milling. Journal of Metastable and Nanocrystalline Materials, 1999, 2-6, 575-580.	0.1	0
249	Hot-Forming of Silicide-Dispersion-Strengthened Titanium Aluminides (SDS-TiAl) with Grain Sizes in the Submicron Range. Materials Science Forum, 2000, 343-346, 623-628.	0.3	0
250	High Energy Milling of Si-Doped Titanium Aluminides“ General Problems and Potential Applications. Materials Science Forum, 2002, 386-388, 521-528.	0.3	0
251	Cycling and Thermal Stability of Nanostructured MgH ₂ +Cr ₂ O ₃ Composite for Hydrogen Storage.. ChemInform, 2003, 34, no.	0.0	0
252	Hydrogenation of nanocrystalline Mg-based alloys. Materials Research Society Symposia Proceedings, 2003, 801, 96.	0.1	0

#	ARTICLE	IF	CITATIONS
253	Nanocrystalline Intermetallic Mg ₂ Ni Produced in a Batch Scale Mill. Materials Science Forum, 2006, 509, 141-146.	0.3	0
254	Hydrogen Sorption Properties of the Intermetallic Mg ₂ Ni Obtained by Using a Simoloyer Ball Milling. Ingenier�a Investigaci�n Y Tecnolog�a, 2010, 11, 325-332.	0.1	0
255	Characterization of hydrogen storage materials both at the laboratory level and at the scale for prototype tanks. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s42-s42.	0.3	0
256	Design of a Reference Model for Fast Optimization of Photo-Electrochemical Cells. ECS Meeting Abstracts, 2020, MA2020-02, 3129-3129.	0.0	0
257	Tailoring nanocrystalline materials towards potential applications. International Journal of Materials Research, 2022, 94, 610-614.	0.3	0
258	Design of a reference model for fast optimization of photo-electrochemical cells. Sustainable Energy and Fuels, 2022, 6, 1489-1498.	4.9	0
259	Hydrogen Sorption of Nanocrystalline Mg at Reduced Temperatures by Metal-Oxide Catalysts. Advanced Engineering Materials, 2001, 3, 487-490.	3.5	0