

Marcello Baricco

List of Publications by Year in descending order

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4464
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for hydrogen-based energy storage – past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	5.5	518
2	Application of hydrides in hydrogen storage and compression: Achievements, outlook and perspectives. International Journal of Hydrogen Energy, 2019, 44, 7780-7808.	7.1	486
3	Magnesium based materials for hydrogen based energy storage: Past, present and future. International Journal of Hydrogen Energy, 2019, 44, 7809-7859.	7.1	460
4	Hydrogen release from solid state NaBH ₄ . International Journal of Hydrogen Energy, 2008, 33, 3111-3115.	7.1	128
5	Complex hydrides for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7860-7874.	7.1	123
6	Substitutional effects in TiFe for hydrogen storage: a comprehensive review. Materials Advances, 2021, 2, 2524-2560.	5.4	90
7	Undercooling of Ni-B and Fe-B alloys and their metastable phase diagrams. Journal of Alloys and Compounds, 1997, 247, 164-171.	5.5	89
8	Study of the brittle behaviour of annealed Fe-6.5 wt%Si ribbons produced by planar flow casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 212, 62-68.	5.6	87
9	dc Joule heating of amorphous metallic ribbons: Experimental aspects and model. Review of Scientific Instruments, 1993, 64, 1053-1060.	1.3	82
10	Complex and liquid hydrides for energy storage. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	81
11	Iodide substitution in lithium borohydride, LiBH ₄ ·LiI. Journal of Alloys and Compounds, 2011, 509, 8299-8305.	5.5	80
12	Mechanical alloying of the Al–Ti system. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 473-486.	0.6	78
13	Surface morphology and reactivity towards CO of MgO particles: FTIR and HRTEM studies. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1289-1298.	0.1	77
14	Joule-heating effects in the amorphous Fe ₄₀ Ni ₄₀ B ₂₀ alloy. Physical Review B, 1993, 47, 3118-3125.	3.2	70
15	Kinetics of the amorphous–nanocrystalline transformation in Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ . Journal of Applied Physics, 1993, 74, 3137-3143.	2.5	66
16	Enhancing Li-Ion Conductivity in LiBH ₄ -Based Solid Electrolytes by Adding Various Nanosized Oxides. ACS Applied Energy Materials, 2020, 3, 4941-4948.	5.1	61
17	Stripe domains and spin reorientation transition in Fe ₇₈ B ₁₃ Si ₉ thin films produced by rf sputtering. Journal of Applied Physics, 2008, 104, .	2.5	55
18	Structure and Thermodynamic Properties of the NaMgH ₃ Perovskite: A Comprehensive Study. Chemistry of Materials, 2011, 23, 2317-2326.	6.7	54

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19	Bromide substitution in lithium borohydride, $\text{LiBH}_4\text{-LiBr}$. International Journal of Hydrogen Energy, 2011, 36, 15664-15672.	7.1	54
20	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. International Journal of Hydrogen Energy, 2020, 45, 33687-33730.	7.1	53
21	Thermodynamic analysis of glass formation in Fe-B system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2001, 25, 625-637.	1.6	52
22	Hydrogen-fluorine exchange in $\text{NaBH}_4\text{-NaBF}_4$. Physical Chemistry Chemical Physics, 2013, 15, 18185.	2.8	52
23	Integration of a PEM fuel cell with a metal hydride tank for stationary applications. Journal of Alloys and Compounds, 2015, 645, S338-S342.	5.5	52
24	Metal Hydrides and Related Materials. Energy Carriers for Novel Hydrogen and Electrochemical Storage. Journal of Physical Chemistry C, 2020, 124, 7599-7607.	3.1	52
25	Magnetic Properties of Bulk Metallic Glasses. Advanced Engineering Materials, 2007, 9, 468-474.	3.5	50
26	A thermodynamic assessment of LiBH_4 . Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 39, 80-90.	1.6	48
27	SSH2S: Hydrogen storage in complex hydrides for an auxiliary power unit based on high temperature proton exchange membrane fuel cells. Journal of Power Sources, 2017, 342, 853-860.	7.8	47
28	Experimental Evidence of $\text{Na}_2[\text{B}_{12}\text{H}_{12}]$ and Na Formation in the Desorption Pathway of the $2\text{NaBH}_4\text{-MgH}_2$ System. Journal of Physical Chemistry C, 2011, 115, 16664-16671.	3.1	46
29	A comparison of energy storage from renewable sources through batteries and fuel cells: A case study in Turin, Italy. International Journal of Hydrogen Energy, 2016, 41, 21427-21438.	7.1	45
30	Room-Temperature Solid-State Lithium-Ion Battery Using a $\text{LiBH}_4\text{-MgO}$ Composite Electrolyte. ACS Applied Energy Materials, 2021, 4, 1228-1236.	5.1	45
31	Driving forces for crystal nucleation in Fe-B liquid and amorphous alloys. Intermetallics, 2003, 11, 1293-1299.	3.9	43
32	Synthesis and Structural Investigation of $\text{Zr}(\text{BH}_4)_4$. Journal of Physical Chemistry C, 2012, 116, 20239-20245.	3.1	43
33	Crystallization behaviour of Al-Sm amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 600-604.	5.6	42
34	Phase Stability and Fast Ion Conductivity in the Hexagonal $\text{LiBH}_4\text{-LiBr-LiCl}$ Solid Solution. Chemistry of Materials, 2019, 31, 5133-5144.	6.7	42
35	Effects of BaRuO_3 addition on hydrogen desorption in MgH_2 . Journal of Alloys and Compounds, 2012, 536, S216-S221.	5.5	41
36	“Big cube” phase formation in Zr-based metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 305-310.	5.6	40

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37	Non-stoichiometric cementite by rapid solidification of cast iron. <i>Acta Materialia</i> , 2005, 53, 1849-1856.	7.9	40
38	Achieving accurate estimates of fetal gestational age and personalised predictions of fetal growth based on data from an international prospective cohort study: a population-based machine learning study. <i>The Lancet Digital Health</i> , 2020, 2, e368-e375.	12.3	40
39	Niobium pentoxide as promoter in the mixed MgH ₂ /Nb ₂ O ₅ system for hydrogen storage: a multitechnique investigation of the H ₂ uptake. <i>Journal of Materials Science</i> , 2007, 42, 7180-7185.	3.7	39
40	Vibrational Properties of MBH ₄ and MBF ₄ Crystals (M = Li, Na, K): A Combined DFT, Infrared, and Raman Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18890-18900.	3.1	39
41	Glass formation and mechanical properties of (Cu ₅₀ Zr ₅₀) _{100-x} Al _x (x=0, 4, 5, 7) bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2009, 483, 146-149.	5.5	38
42	Dehydrogenation reactions of 2NaBH ₄ +MgH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7891-7896.	7.1	38
43	Fuel cell powered octocopter for inspection of mobile cranes: Design, cost analysis and environmental impacts. <i>Applied Energy</i> , 2018, 215, 556-565.	10.1	37
44	Phase selection in Al-TM-RE alloys: nanocrystalline Al versus intermetallics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 304-306, 574-578.	5.6	36
45	A computational study on the effect of fluorine substitution in LiBH ₄ . <i>Journal of Alloys and Compounds</i> , 2011, 509, S679-S683.	5.5	36
46	Improved ductility of nanocrystalline Fe _{73.5} Nb ₃ Cu ₁ Si _{13.5} B ₉ obtained by direct current joule heating. <i>Applied Physics Letters</i> , 1993, 63, 2759-2761.	3.3	35
47	Halide Substitution in Magnesium Borohydride. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12482-12488.	3.1	35
48	Spectroscopic and Structural Characterization of Thermal Decomposition of β -Mg(BH ₄) ₂ : Dynamic Vacuum versus H ₂ Atmosphere. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25340-25351.	3.1	35
49	Role of hydrogen tanks in the life cycle assessment of fuel cell-based auxiliary power units. <i>Applied Energy</i> , 2018, 215, 1-12.	10.1	35
50	Thermodynamic modelling of Mg(BH ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2015, 645, S64-S68.	5.5	34
51	Assessment of the environmental break-even point for deposit return systems through an LCA analysis of single-use and reusable cups. <i>Sustainable Production and Consumption</i> , 2021, 27, 228-241.	11.0	33
52	A DSC study of structural relaxation in metallic glasses prepared with different quenching rates. <i>Journal of Non-Crystalline Solids</i> , 1984, 61-62, 877-882.	3.1	31
53	Copper-cobalt f.c.c. metastable phase prepared by mechanical alloying. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1993, 68, 957-966.	0.6	30
54	Rapid solidification of Cu-Fe-Ni alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 1019-1023.	5.6	30

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55	Theoretical and Experimental Study of LiBH ₄ -LiCl Solid Solution. Crystals, 2012, 2, 144-158.	2.2	30
56	Thermodynamic and Kinetics Aspects of High Temperature Oxidation on a 304L Stainless Steel. Oxidation of Metals, 2014, 81, 515-528.	2.1	30
57	Thermodynamic analysis and assessment of the Ce-Ni system. Intermetallics, 2004, 12, 1367-1372.	3.9	29
58	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. Progress in Energy, 2022, 4, 032007.	10.9	29
59	Crystals and nanocrystals in rapidly solidified Al-Sm alloys. Scripta Materialia, 1998, 10, 767-776.	0.5	28
60	Thermodynamic modelling of liquids: CALPHAD approaches and contributions from statistical physics. Physica Status Solidi (B): Basic Research, 2014, 251, 33-52.	1.5	28
61	Combined X-ray and Raman Studies on the Effect of Cobalt Additives on the Decomposition of Magnesium Borohydride. Energies, 2015, 8, 9173-9190.	3.1	28
62	Thermodynamic and ab initio investigation of the Al-H-Mg system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 457-467.	1.6	27
63	Development of nanostructured Mg ₂ Ni alloys for hydrogen storage applications. International Journal of Hydrogen Energy, 2011, 36, 7897-7901.	7.1	27
64	Theoretical and experimental study on Mg(BH ₄) ₂ -Zn(BH ₄) ₂ mixed borohydrides. Journal of Alloys and Compounds, 2013, 580, S282-S286.	5.5	27
65	Developments in the Ni-Nb-Zr amorphous alloy membranes. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	27
66	Effect of microstructure on hydrogen absorption in LaMg ₂ Ni. Intermetallics, 2008, 16, 102-106.	3.9	26
67	Effect of Mg-Nb oxides addition on hydrogen sorption in MgH ₂ . Journal of Alloys and Compounds, 2011, 509, S438-S443.	5.5	26
68	Coupling Solid-State NMR with GIPAW ab Initio Calculations in Metal Hydrides and Borohydrides. Journal of Physical Chemistry C, 2013, 117, 9991-9998.	3.1	26
69	Fast carbon dioxide recycling by reaction with ¹³ Mg(BH ₄) ₂ . Physical Chemistry Chemical Physics, 2014, 16, 22482-22486.	2.8	26
70	Metallic and complex hydride-based electrochemical storage of energy. Progress in Energy, 2022, 4, 032001.	10.9	26
71	Enhanced hydrogen uptake/release in 2LiH-MgB ₂ composite with titanium additives. International Journal of Hydrogen Energy, 2012, 37, 1604-1612.	7.1	25
72	Hydrogen sorption in the LaNi _{5-x} Al _x -H system (0 ≤ x ≤ 1). Intermetallics, 2015, 62, 7-16.	3.9	25

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73	Hydrogen absorption-desorption in CeNi ₂ . Journal of Alloys and Compounds, 2006, 426, 180-185.	5.5	23
74	A thermodynamic investigation of the LiBH ₄ -NaBH ₄ system. RSC Advances, 2016, 6, 60101-60108.	3.6	23
75	Hydrogen storage in complex hydrides: past activities and new trends. Progress in Energy, 2022, 4, 032009.	10.9	23
76	Role of crystalline precipitates on the mechanical properties of (Cu _{0.50} Zr _{0.50}) _{100-x} Al _x (x=4, 5, 7) bulk metallic glasses. Journal of Alloys and Compounds, 2011, 509, S99-S104.	5.5	22
77	Halide substitution in Ca(BH ₄) ₂ . RSC Advances, 2014, 4, 4736-4742.	3.6	22
78	Material properties and empirical rate equations for hydrogen sorption reactions in 2 LiNH ₂ -1.1 MgH ₂ -0.1 LiBH ₄ -3 wt.% ZrCoH ₃ . International Journal of Hydrogen Energy, 2014, 39, 8283-8292.	7.1	22
79	Study of the decomposition of a 0.62LiBH ₄ -0.38NaBH ₄ mixture. International Journal of Hydrogen Energy, 2017, 42, 22480-22488.	7.1	22
80	Thermodynamics of liquid alloys and glass formation. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 139-146.	0.6	21
81	Nanocrystalline phase formation in amorphous Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ submitted to conventional annealing and Joule heating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 572-576.	5.6	21
82	Fe-based bulk metallic glasses with Y addition. Journal of Alloys and Compounds, 2007, 434-435, 176-179.	5.5	21
83	Case Studies of Energy Storage with Fuel Cells and Batteries for Stationary and Mobile Applications. Challenges, 2017, 8, 9.	1.7	21
84	An exact model of d.c. joule heating in amorphous metallic ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 361-365.	5.6	20
85	Calorimetric measurements on some undercooled metals and alloys. Journal of Alloys and Compounds, 1995, 220, 212-216.	5.5	20
86	Magnetic and mechanical properties of rapidly solidified Fe-Si 6.5 wt% alloys and their interpretation. Journal of Magnetism and Magnetic Materials, 1996, 160, 315-317.	2.3	20
87	Thermodynamic assessment of the Hf-La-Ni system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 162-169.	1.6	20
88	Hydrogen storage of Mg-Zn mixed metal borohydrides. Journal of Alloys and Compounds, 2014, 615, S702-S705.	5.5	20
89	Phase diagrams of the LiBH ₄ -NaBH ₄ -KBH ₄ system. Physical Chemistry Chemical Physics, 2017, 19, 25071-25079.	2.8	20
90	Experimental and computational investigations on the AlH ₃ /AlF ₃ system. Journal of Alloys and Compounds, 2011, 509, 10-14.	5.5	19

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91	Hydrogen sorption properties of Ternary Mg _{1-x} Nb _x O phases synthesized by solid-state reaction. International Journal of Hydrogen Energy, 2011, 36, 7932-7936.	7.1	19
92	Mechanochemical synthesis of NaBH ₄ starting from NaH-MgB ₂ reactive hydride composite system. International Journal of Hydrogen Energy, 2013, 38, 2363-2369.	7.1	19
93	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
94	Structural relaxation in metallic glasses. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 715-725.	0.6	18
95	X-Ray absorption spectroscopy and diffraction study of miscible and immiscible binary metallic systems prepared by ball milling. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1331-1344.	0.1	18
96	Nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ obtained by direct-current Joule heating. Magnetic and mechanical properties. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1993, 68, 853-860.	0.6	18
97	Rapid solidification of immiscible alloys. Journal of Magnetism and Magnetic Materials, 2003, 262, 64-68.	2.3	18
98	Interaction of hydrogen with the β -Al ₃ Mg ₂ complex metallic alloy: Experimental reliability of theoretical predictions. Journal of Alloys and Compounds, 2009, 472, 565-570.	5.5	18
99	Crowdsensing for a sustainable comfort and for energy saving. Energy and Buildings, 2019, 186, 208-220.	6.7	18
100	Structural, morphological and surface chemical features of Al ₂ O ₃ catalyst supports stabilized with CeO ₂ . Studies in Surface Science and Catalysis, 1995, 96, 361-373.	1.5	17
101	Thermodynamics of Homogeneous Crystal Nucleation in Al-RE Metallic Glasses. Materials Science Forum, 1998, 269-272, 553-558.	0.3	17
102	Modelling of primary bcc-Fe crystal growth in a FeB amorphous alloy. Acta Materialia, 2005, 53, 2231-2239.	7.9	17
103	Magnetic properties and power losses in Fe-Co-based bulk metallic glasses. Journal of Magnetism and Magnetic Materials, 2008, 320, e806-e809.	2.3	17
104	Correlation between Poisson ratio and Mohr-Coulomb coefficient in metallic glasses. Journal of Alloys and Compounds, 2009, 483, 125-131.	5.5	17
105	Solid-state NMR and thermodynamic investigations on LiBH ₄ /LiNH ₂ system. International Journal of Hydrogen Energy, 2016, 41, 14475-14483.	7.1	17
106	Experimental Assessment of Lithium Hydride's Space Radiation Shielding Performance and Monte Carlo Benchmarking. Radiation Research, 2018, 191, 154.	1.5	17
107	Combined DFT and geometrical-topological analysis of Li-ion conductivity in complex hydrides. Inorganic Chemistry Frontiers, 2020, 7, 3115-3125.	6.0	17
108	The effects of quenching conditions on the electrochemical behaviour of Fe ₃₄ Ni ₃₆ Cr ₁₀ P ₁₄ B ₆ amorphous alloys. Corrosion Science, 1992, 33, 1227-1241.	6.6	16

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109	Growth of crystals from amorphous alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1993, 68, 813-824.	0.6	16
110	Structural and optical properties of Fe _{1-x} MxSi ₂ thin films (M=Co, Mn; 0 ≤ x ≤ 0.20). Microelectronic Engineering, 2001, 55, 233-241.	2.4	16
111	Thermal stability and instrumented indentation in a Mg ₆₀ Cu ₃₀ Y ₁₀ bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 1012-1017.	5.6	16
112	Microstructures in rapidly solidified AISI 304 interpreted according to phase selection theory. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 999-1002.	5.6	16
113	Homogenization of Highly Alloyed Cu-Fe-Ni: A Phase Diagram Study. Journal of Phase Equilibria and Diffusion, 2008, 29, 131-135.	1.4	16
114	Analysis of crystallization behavior of Fe ₄₈ Cr ₁₅ Mo ₁₄ Y ₂ C ₁₅ B ₆ bulk metallic glass by synchrotron radiation. Journal of Materials Research, 2008, 23, 2166-2173.	2.6	16
115	Magnetic properties of Fe-Co-based bulk metallic glasses. Journal of Alloys and Compounds, 2009, 483, 608-612.	5.5	16
116	Li ₅ (BH ₄) ₃ NH: Lithium-Rich Mixed Anion Complex Hydride. Journal of Physical Chemistry C, 2017, 121, 11069-11075.	3.1	16
117	High loading Ni/MgO catalysts. Surface characterization by IR spectra of adsorbed CO. Catalysis Today, 1993, 17, 449-458.	4.4	15
118	Formation and stability of Al _{1-x} Nd and Al _{1-x} Nd _{1-x} Fe metallic glasses. Journal of Alloys and Compounds, 1994, 209, 341-349.	5.5	15
119	Hydrogen release and structural transformations in LiNH ₂ -MgH ₂ systems. Journal of Alloys and Compounds, 2011, 509, S719-S723.	5.5	15
120	Above room temperature heat capacity and phase transition of lithium tetrahydroborate. Thermochimica Acta, 2011, 520, 75-79.	2.7	15
121	Structure, microstructure and microhardness of rapidly solidified Sm _y (Fe _x Ni _{1-x}) ₄ Sb ₁₂ (x = 0.45). J. Therm. Anal. Cal., 2011, 104, 1-7.	3.2	15
122	Thermoelectric Properties of TiNiSn Half Heusler Alloy Obtained by Rapid Solidification and Sintering. Journal of Materials Engineering and Performance, 2018, 27, 6306-6313.	2.5	15
123	Effect of rapid solidification on the synthesis and thermoelectric properties of Yb-filled Co ₄ Sb ₁₂ skutterudite. Journal of Alloys and Compounds, 2019, 796, 33-41.	5.5	15
124	Kinetic and thermodynamic aspects of crystallization in Cu _{1-x} Ti _x Ni and Cu _{1-x} Ti _x Al metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 371-375.	5.6	14
125	Thermal stability and hardness of Mg-Cu-Au-Y amorphous alloys. Journal of Alloys and Compounds, 2007, 434-435, 183-186.	5.5	14
126	Rapid solidification of silver-rich Ag-Cu-Zr alloys. Journal of Alloys and Compounds, 2012, 536, S148-S153.	5.5	14

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127	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
128	KNH_2 –KH: a metal amide–hydride solid solution. Chemical Communications, 2016, 52, 11760-11763.	4.1	14
129	Reactive Hydride Composite of Mg_2NiH_4 with Borohydrides Eutectic Mixtures. Crystals, 2018, 8, 90.	2.2	14
130	Hydrogen Desorption in $\text{Mg}(\text{BH}_4)_2$ - $\text{Ca}(\text{BH}_4)_2$ System. Energies, 2019, 12, 3230.	3.1	14
131	Exploring Ternary and Quaternary Mixtures in the LiBH_4 – NaBH_4 – KBH_4 – $\text{Mg}(\text{BH}_4)_2$ – $\text{Ca}(\text{BH}_4)_2$ System. ChemPhysChem, 2019, 20, 1348-1359.	3.1	14
132	Research and development of hydrogen carrier based solutions for hydrogen compression and storage. Progress in Energy, 2022, 4, 042005.	10.9	14
133	An analysis of volume effects in metallic glass formation. Journal of the Less Common Metals, 1988, 145, 31-38.	0.8	13
134	Spectroscopic, structural and microcalorimetric study of stishovite, a non-pathogenic polymorph of SiO_2 . Journal of Materials Chemistry, 1995, 5, 1935.	6.7	13
135	Texture, hardening and mechanical anisotropy in A.A. 8090-T851 plate. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 257, 134-138.	5.6	13
136	Rheology of tellurite glasses. Materials Research Bulletin, 2000, 35, 2343-2351.	5.2	13
137	Hydrogen absorption and desorption in nanocrystalline LaMg_2Ni . Journal of Alloys and Compounds, 2007, 434-435, 734-737.	5.5	13
138	Shear-band propagation in fully amorphous and partially crystallized Mg-based alloys studied by nanoindentation and transmission electron microscopy. Journal of Alloys and Compounds, 2007, 434-435, 48-51.	5.5	13
139	Ternary Compounds and Glass Formation in the Cu-Mg-Y System. Advanced Engineering Materials, 2007, 9, 475-479.	3.5	13
140	Phase Diagrams and Glass Formation in Metallic Systems. Advanced Engineering Materials, 2007, 9, 454-467.	3.5	13
141	An investigation of the H_2 uptake in Mg – Nb – O ternary phases. International Journal of Hydrogen Energy, 2008, 33, 3085-3090.	7.1	13
142	The interaction of hydrogen with oxidic promoters of hydrogen storage in magnesium hydride. Materials Research Bulletin, 2009, 44, 194-197.	5.2	13
143	Amorphous/nanocrystalline composites analysed by the Rietveld method. Journal of Alloys and Compounds, 2010, 495, 377-381.	5.5	13
144	Full dense CoSb_3 single phase with high thermoelectric performance prepared by oscillated cooling method. Scripta Materialia, 2016, 113, 110-113.	5.2	13

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145	Preparation of Li-Mg-N-H hydrogen storage materials for an auxiliary power unit. International Journal of Hydrogen Energy, 2017, 42, 17144-17148.	7.1	13
146	Role of secondary phases and thermal cycling on thermoelectric properties of TiNiSn half-Heusler alloy prepared by different processing routes. Intermetallics, 2020, 127, 106988.	3.9	13
147	Detection of Lithium Plating in Li-Ion Cell Anodes Using Realistic Automotive Fast-Charge Profiles. Batteries, 2021, 7, 46.	4.5	13
148	Corrosion behaviour of Fe _{80-x} Co _x B ₁₀ Si ₁₀ metallic glasses in sulphate and chloride media. Materials and Corrosion - Werkstoffe Und Korrosion, 1993, 44, 98-106.	1.5	12
149	Structural and thermodynamic aspects of glass formation in Cu-Ti-H: role of hydrogen in mechanical alloying. Journal of Non-Crystalline Solids, 1993, 156-158, 527-531.	3.1	12
150	Electrocatalytic behaviour of Zr ₆₄ Ni ₃₆ and Zr ₄₈ Ni ₂₇ Al ₂₅ amorphous alloys. Electrochimica Acta, 1994, 39, 1781-1786.	5.2	12
151	Magnetic properties and surface roughness of Fe ₆₄ Co ₂₁ B ₁₅ amorphous ribbons quenched from different melt temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 326-330.	5.6	12
152	Grain growth and texture in rapidly solidified Fe(Si) 6.5 wt.% ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 1025-1029.	5.6	12
153	Phase separation in multicomponent amorphous alloys. Journal of Non-Crystalline Solids, 1998, 232-234, 127-132.	3.1	12
154	Glass ceramics for optical amplifiers: rheological, thermal, and optical properties. Journal of Non-Crystalline Solids, 1999, 256-257, 170-175.	3.1	12
155	Properties of FeNiB-based metallic glasses with primary BCC and FCC crystallisation products. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 532-534.	2.3	12
156	Magnetic and magnetotransport properties in metastable granular systems. Journal of Alloys and Compounds, 2007, 434-435, 594-597.	5.5	12
157	Glass-formation and hardness of Cu-Y alloys. Journal of Alloys and Compounds, 2009, 483, 50-53.	5.5	12
158	Effects of chemical composition on nanocrystallization kinetics, microstructure and magnetic properties of finemet-type amorphous alloys. Metals and Materials International, 2013, 19, 643-649.	3.4	12
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