

Kasper MÃ,ller

List of Publications by Year in descending order

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34
papers

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citations

430874

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377865

34
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all docs

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen - A sustainable energy carrier. Progress in Natural Science: Materials International, 2017, 27, 34-40.	4.4	541
2	Materials for hydrogen-based energy storage – past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	5.5	518
3	Complex Metal Hydrides for Hydrogen, Thermal and Electrochemical Energy Storage. Energies, 2017, 10, 1645.	3.1	152
4	Hydrogen sorption in TiZrNbHfTa high entropy alloy. Journal of Alloys and Compounds, 2019, 775, 667-674.	5.5	145
5	Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. Inorganic Chemistry, 2018, 57, 2103-2110.	4.0	121
6	Hydrogen storage systems from waste Mg alloys. Journal of Power Sources, 2014, 270, 554-563.	7.8	75
7	<i>In situ</i> X-ray diffraction environments for high-pressure reactions. Journal of Applied Crystallography, 2015, 48, 1234-1241.	4.5	67
8	Dolomite: a low cost thermochemical energy storage material. Journal of Materials Chemistry A, 2019, 7, 1206-1215.	10.3	50
9	From Metal Hydrides to Metal Borohydrides. Inorganic Chemistry, 2018, 57, 10768-10780.	4.0	45
10	Inexpensive thermochemical energy storage utilising additive enhanced limestone. Journal of Materials Chemistry A, 2020, 8, 9646-9653.	10.3	45
11	Synthesis, Crystal Structure, Thermal Decomposition, and ^{11}B MAS NMR Characterization of $\text{Mg}(\text{BH}_4)_2(\text{NH}_3\text{BH}_3)_2$. Journal of Physical Chemistry C, 2014, 118, 12141-12153.	3.1	41
12	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881.	3.3	34
13	Characterization of Gas-Solid Reactions using In Situ Powder X-ray Diffraction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3029-3043.	1.2	33
14	Trends in Synthesis, Crystal Structure, and Thermal and Magnetic Properties of Rare-Earth Metal Borohydrides. Inorganic Chemistry, 2019, 58, 5503-5517.	4.0	31
15	Metallic and complex hydride-based electrochemical storage of energy. Progress in Energy, 2022, 4, 032001.	10.9	26
16	New perspectives of functional metal borohydrides. Journal of Alloys and Compounds, 2022, 896, 163014.	5.5	25
17	Hydrogen storage in complex hydrides: past activities and new trends. Progress in Energy, 2022, 4, 032009.	10.9	23
18	Hydrated alkali- $\text{B}_{11}\text{H}_{14}$ salts as potential solid-state electrolytes. Journal of Materials Chemistry A, 2021, 9, 15027-15037.	10.3	21

#	ARTICLE	IF	CITATIONS
19	Synthesis and thermal stability of perovskite alkali metal strontium borohydrides. Dalton Transactions, 2016, 45, 831-840.	3.3	19
20	Hydrogenation properties of lithium and sodium hydride α -closo-borate, $[B_{10}H_{10}]^{2+}$ and $[B_{12}H_{12}]^{2+}$ composites. Physical Chemistry Chemical Physics, 2018, 20, 16266-16275.	2.8	18
21	BläMobilstor: Materials for Sustainable Energy Storage Techniques α -Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage. Advanced Engineering Materials, 2014, 16, 1189-1195.	3.5	17
22	Structural Diversity and Trends in Properties of an Array of Hydrogen-Rich Ammonium Metal Borohydrides. Inorganic Chemistry, 2020, 59, 12733-12747.	4.0	16
23	Metal borohydride formation from aluminium boride and metal hydrides. Physical Chemistry Chemical Physics, 2016, 18, 27545-27553.	2.8	15
24	Thermochemical energy storage properties of a barium based reactive carbonate composite. Journal of Materials Chemistry A, 2020, 8, 10935-10942.	10.3	15
25	Perovskite alkali metal samarium borohydrides: crystal structures and thermal decomposition. Dalton Transactions, 2017, 46, 11905-11912.	3.3	14
26	Thermochemical energy storage system development utilising limestone. Chemical Engineering Journal Advances, 2021, 8, 100168.	5.2	14
27	A NaAlH ₄ -Ca(BH ₄) ₂ composite system for hydrogen storage. Journal of Alloys and Compounds, 2017, 720, 497-501.	5.5	13
28	Synthesis and thermal decomposition of potassium tetraamidoboranealuminate, K[Al(NH ₂ BH ₃) ₄]. International Journal of Hydrogen Energy, 2018, 43, 311-321.	7.1	13
29	Molten metal α -closo-borate solvates. Chemical Communications, 2019, 55, 3410-3413.	4.1	12
30	Complexation of Ammonia Boranes with Al ³⁺ . Inorganic Chemistry, 2019, 58, 4753-4760.	4.0	8
31	Synergetic effect of multicomponent additives on limestone when assessed as a thermochemical energy storage material. Journal of Alloys and Compounds, 2022, 891, 161954.	5.5	8
32	Comment on α -functional Li ₂ B ₁₂ H ₁₂ for energy storage and conversion applications: solid-state electrolyte and luminescent down-conversion dye by J. A. Teprovich Jr, H. Col ³ n-Mercado, A. L. Washington II, P. A. Ward, S. Greenway, D. M. Missimer, H. Hartman, J. Velten, J. H. Christian and R. Zidan, <i>J. Mater. Chem. A</i> , 2015, 3 , 22853. Journal of Materials Chemistry A, 2019, 7, 4185-4187.	10.3	7
33	Ammonium α -Ammonia Complexes, N ₂ H ₇ ⁺ , in Ammonium closo-Borate Ammines: Synthesis, Structure, and Properties. Inorganic Chemistry, 2020, 59, 11449-11458.	4.0	6
34	Beyond Hydrogen Storage α -Metal Hydrides as Multifunctional Materials for Energy Storage and Conversion. Inorganics, 2020, 8, 58.	2.7	2