

Kasper MÃ,ller

List of Publications by Year in descending order

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34
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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Synergetic effect of multicomponent additives on limestone when assessed as a thermochemical energy storage material. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161954. | 5.5 | 8 |
| 2 | New perspectives of functional metal borohydrides. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163014. | 5.5 | 25 |
| 3 | Metallic and complex hydride-based electrochemical storage of energy. <i>Progress in Energy</i> , 2022, 4, 032001. | 10.9 | 26 |
| 4 | Hydrogen storage in complex hydrides: past activities and new trends. <i>Progress in Energy</i> , 2022, 4, 032009. | 10.9 | 23 |
| 5 | Hydrated alkali-B ₁₁ H ₁₄ salts as potential solid-state electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15027-15037. | 10.3 | 21 |
| 6 | Thermochemical energy storage system development utilising limestone. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100168. | 5.2 | 14 |
| 7 | Materials for hydrogen-based energy storage – past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020, 827, 153548. | 5.5 | 518 |
| 8 | Ammonium Ammonia Complexes, N ₂ H ₇ ⁺ , in Ammonium closo-Borate Ammines: Synthesis, Structure, and Properties. <i>Inorganic Chemistry</i> , 2020, 59, 11449-11458. | 4.0 | 6 |
| 9 | Structural Diversity and Trends in Properties of an Array of Hydrogen-Rich Ammonium Metal Borohydrides. <i>Inorganic Chemistry</i> , 2020, 59, 12733-12747. | 4.0 | 16 |
| 10 | Beyond Hydrogen Storage – Metal Hydrides as Multifunctional Materials for Energy Storage and Conversion. <i>Inorganics</i> , 2020, 8, 58. | 2.7 | 2 |
| 11 | Inexpensive thermochemical energy storage utilising additive enhanced limestone. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9646-9653. | 10.3 | 45 |
| 12 | Thermochemical energy storage properties of a barium based reactive carbonate composite. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10935-10942. | 10.3 | 15 |
| 13 | Dolomite: a low cost thermochemical energy storage material. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1206-1215. | 10.3 | 50 |
| 14 | Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. <i>Dalton Transactions</i> , 2019, 48, 8872-8881. | 3.3 | 34 |
| 15 | Trends in Synthesis, Crystal Structure, and Thermal and Magnetic Properties of Rare-Earth Metal Borohydrides. <i>Inorganic Chemistry</i> , 2019, 58, 5503-5517. | 4.0 | 31 |
| 16 | Complexation of Ammonia Boranes with Al ³⁺ . <i>Inorganic Chemistry</i> , 2019, 58, 4753-4760. | 4.0 | 8 |
| 17 | Comment on a ³⁺ -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 ³ⁿ -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. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4185-4187. | 10.3 | 7 |
| 18 | Molten metal closo-borate solvates. <i>Chemical Communications</i> , 2019, 55, 3410-3413. | 4.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Hydrogen sorption in TiZrNbHfTa high entropy alloy. Journal of Alloys and Compounds, 2019, 775, 667-674. | 5.5 | 145 |
| 20 | Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. Inorganic Chemistry, 2018, 57, 2103-2110. | 4.0 | 121 |
| 21 | 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 |
| 22 | From Metal Hydrides to Metal Borohydrides. Inorganic Chemistry, 2018, 57, 10768-10780. | 4.0 | 45 |
| 23 | Hydrogenation properties of lithium and sodium hydride <i>closo</i> -borate, [B ₁₀ H ₁₀] ²⁺ and [B ₁₂ H ₁₂] ²⁺ composites. Physical Chemistry Chemical Physics, 2018, 20, 16266-16275. | 2.8 | 18 |
| 24 | Hydrogen - A sustainable energy carrier. Progress in Natural Science: Materials International, 2017, 27, 34-40. | 4.4 | 541 |
| 25 | A NaAlH ₄ -Ca(BH ₄) ₂ composite system for hydrogen storage. Journal of Alloys and Compounds, 2017, 720, 497-501. | 5.5 | 13 |
| 26 | Perovskite alkali metal samarium borohydrides: crystal structures and thermal decomposition. Dalton Transactions, 2017, 46, 11905-11912. | 3.3 | 14 |
| 27 | Complex Metal Hydrides for Hydrogen, Thermal and Electrochemical Energy Storage. Energies, 2017, 10, 1645. | 3.1 | 152 |
| 28 | Metal borohydride formation from aluminium boride and metal hydrides. Physical Chemistry Chemical Physics, 2016, 18, 27545-27553. | 2.8 | 15 |
| 29 | Synthesis and thermal stability of perovskite alkali metal strontium borohydrides. Dalton Transactions, 2016, 45, 831-840. | 3.3 | 19 |
| 30 | <i>In situ</i> X-ray diffraction environments for high-pressure reactions. Journal of Applied Crystallography, 2015, 48, 1234-1241. | 4.5 | 67 |
| 31 | Synthesis, Crystal Structure, Thermal Decomposition, and ¹¹ B MAS NMR Characterization of Mg(BH ₄) ₂ (NH ₃ BH ₃) ₂ . Journal of Physical Chemistry C, 2014, 118, 12141-12153. | 3.1 | 41 |
| 32 | 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 |
| 33 | Hydrogen storage systems from waste Mg alloys. Journal of Power Sources, 2014, 270, 554-563. | 7.8 | 75 |
| 34 | Li-Mobilstor: Materials for Sustainable Energy Storage Techniques – Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage. Advanced Engineering Materials, 2014, 16, 1189-1195. | 3.5 | 17 |