

Gustav Ek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. <i>Inorganic Chemistry</i> , 2018, 57, 2103-2110.	1.9	121
2	Counting electrons - A new approach to tailor the hydrogen sorption properties of high-entropy alloys. <i>Acta Materialia</i> , 2019, 175, 121-129.	3.8	118
3	Hydrogen storage in high-entropy alloys with varying degree of local lattice strain. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29140-29149.	3.8	85
4	TiVZrNb Multi-Principal-Element Alloy: Synthesis Optimization, Structural, and Hydrogen Sorption Properties. <i>Molecules</i> , 2019, 24, 2799.	1.7	65
5	Improving the hydrogen cycling properties by Mg addition in Ti-V-Zr-Nb refractory high entropy alloy. <i>Scripta Materialia</i> , 2021, 194, 113699.	2.6	62
6	Hydrogen storage properties of the refractory Ti-V-Zr-Nb-Ta multi-principal element alloy. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155376.	2.8	61
7	Elucidating the Effects of the Composition on Hydrogen Sorption in TiVZrNbHf-Based High-Entropy Alloys. <i>Inorganic Chemistry</i> , 2021, 60, 1124-1132.	1.9	49
8	Thermal Stability of the HfNbTiVZr High-Entropy Alloy. <i>Inorganic Chemistry</i> , 2019, 58, 811-820.	1.9	46
9	Local order in high-entropy alloys and associated deuterides - a total scattering and Reverse Monte Carlo study. <i>Acta Materialia</i> , 2020, 199, 504-513.	3.8	40
10	Data-Driven Discovery and Synthesis of High Entropy Alloy Hydrides with Targeted Thermodynamic Stability. <i>Chemistry of Materials</i> , 2021, 33, 4067-4076.	3.2	33
11	How 10 at% Al Addition in the Ti-V-Zr-Nb High-Entropy Alloy Changes Hydrogen Sorption Properties. <i>Molecules</i> , 2021, 26, 2470.	1.7	23
12	Vibrational properties of High Entropy Alloy based metal hydrides probed by inelastic neutron scattering. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160320.	2.8	4
13	Interstitial carbon in bcc HfNbTiVZr high-entropy alloy from first principles. <i>Physical Review Materials</i> , 2020, 4, .	0.9	4
14	Circumventing Thermodynamic Constraints in Nucleation-Controlled Crystallization of Al ₂ TiO ₅ -Based Chemical Vapor Deposition Coatings. <i>Chemistry of Materials</i> , 2022, 34, 5151-5164.	3.2	2