

Dorthe Bomholdt Ravensb k

List of Publications by Year in descending order

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196777

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citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Framework Glass Anode with an Exceptional Cycling-Induced Capacity Enhancement for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2110048.	11.1	83
2	<i>n</i> mfMapping: a cloud-based web application for non-negative matrix factorization of powder diffraction and pair distribution function datasets. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2022, 78, 242-248.	0.0	6
3	State of LiFePO ₄ Li-Ion Battery Electrodes after 6533 Deep-Discharge Cycles Characterized by Combined Micro-XRF and Micro-XRD. <i>ACS Applied Energy Materials</i> , 2022, 5, 4358-4368.	2.5	2
4	Expanded solid-solution behavior and charge-discharge asymmetry in Na _x CrO ₂ Na-ion battery electrodes. <i>Journal of Power Sources</i> , 2022, 535, 231317.	4.0	8
5	Crystalline Disorder, Surface Chemistry, and Their Effects on the Oxygen Evolution Reaction (OER) Activity of Mass-Produced Nanostructured Iridium Oxides. <i>ACS Applied Energy Materials</i> , 2021, 4, 2552-2562.	2.5	14
6	Understanding disorder in oxide-based electrode materials for rechargeable batteries. <i>JPhys Energy</i> , 2021, 3, 031002.	2.3	4
7	Polymorphic Purity and Structural Charge-Discharge Evolution of $\hat{\Gamma}^2$ -LiVOPO ₄ Cathodes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24301-24309.	1.5	3
8	Synthesis and Thermal Degradation of MA ₄ (OH) ₁₂ SO ₄ ·3H ₂ O with M = Co ²⁺ , Ni ²⁺ , Cu ²⁺ , and Zn ²⁺ . <i>Inorganic Chemistry</i> , 2021, 60, 16700-16712.	1.9	6
9	Materials for hydrogen-based energy storage – past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020, 827, 153548.	2.8	518
10	Improving capacity and rate capability of Li-ion cathode materials through ball milling and carbon coating – Best practice for research purposes. <i>Solid State Ionics</i> , 2020, 344, 115152.	1.3	6
11	Effect of Oxygen Defects on the Structural Evolution of LiVPO ₄ F _{1-x} O _x Cathode Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 9750-9759.	2.5	2
12	Na-ion storage in iron hydroxide phosphate hydrate through a reversible crystalline-to-amorphous phase transition. <i>Nanoscale</i> , 2020, 12, 12824-12830.	2.8	3
13	Reducing Transformation Strains during Na Intercalation in Olivine FePO ₄ Cathodes by Mn Substitution. <i>ACS Applied Energy Materials</i> , 2019, 2, 8060-8067.	2.5	15
14	Order-disorder transition in nano-rutile TiO ₂ anodes: a high capacity low-volume change Li-ion battery material. <i>Nanoscale</i> , 2019, 11, 12347-12357.	2.8	40
15	Full-cell hydride-based solid-state Li batteries for energy storage. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7875-7887.	3.8	46
16	Structural Evolution of Disordered Li _x V ₂ O ₅ Bronzes in V ₂ O ₅ Cathodes for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 512-520.	3.2	46
17	Phase Transformation Mechanism of Li-Ion Storage in Iron(III) Hydroxide Phosphates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1930-1938.	1.5	7
18	All-solid-state lithium batteries – The Mg ₂ FeH ₆ -electrode LiBH ₄ -electrolyte system. <i>Electrochemistry Communications</i> , 2018, 87, 81-85.	2.3	21

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19	Structural Evolution during Lithium- and Magnesium-Ion Intercalation in Vanadium Oxide Nanotube Electrodes for Battery Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 5071-5082.	2.4	12
20	Dynamic charge-discharge phase transitions in Li ₃ V ₂ (PO ₄) ₃ cathodes. <i>Journal of Power Sources</i> , 2018, 396, 437-443.	4.0	18
21	Accommodating High Transformation Strains in Battery Electrodes via the Formation of Nanoscale Intermediate Phases: Operando Investigation of Olivine NaFePO ₄ . <i>Nano Letters</i> , 2017, 17, 1696-1702.	4.5	49
22	Metal borohydrides and derivatives – synthesis, structure and properties. <i>Chemical Society Reviews</i> , 2017, 46, 1565-1634.	18.7	320
23	Nanoconfined NaAlH ₄ Conversion Electrodes for Li Batteries. <i>ACS Omega</i> , 2017, 2, 1956-1967.	1.6	18
24	Fluoride substitution in LiBH ₄ ; destabilization and decomposition. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30157-30165.	1.3	30
25	Insight into Poor Cycling Stability of MgH ₂ Anodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3138-A3143.	1.3	7
26	Synthesis, structure and properties of bimetallic sodium rare-earth (RE) borohydrides, NaRE(BH ₄) ₄ , RE = Ce, Pr, Er or Gd. <i>Dalton Transactions</i> , 2017, 46, 13421-13431.	1.6	17
27	Competitive reactions during synthesis of zinc aluminum layered double hydroxides by thermal hydrolysis of urea. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21795-21806.	5.2	43
28	Synthesis, Structure, and Li-Ion Conductivity of LiLa(BH ₄) ₃ X, X = Cl, Br, I. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19010-19021.	1.5	32
29	Complex Metal Hydrides for Hydrogen, Thermal and Electrochemical Energy Storage. <i>Energies</i> , 2017, 10, 1645.	1.6	152
30	Hydrogen Storage Stability of Nanoconfined MgH ₂ upon Cycling. <i>Inorganics</i> , 2017, 5, 57.	1.2	21
31	Barium borohydride chlorides: synthesis, crystal structures and thermal properties. <i>Dalton Transactions</i> , 2016, 45, 8291-8299.	1.6	8
32	Structural Investigation of Zn(II) Insertion in Bayerite, an Aluminum Hydroxide. <i>Inorganic Chemistry</i> , 2016, 55, 9306-9315.	1.9	22
33	Synthesis, structure and properties of new bimetallic sodium and potassium lanthanum borohydrides. <i>Dalton Transactions</i> , 2016, 45, 19002-19011.	1.6	22
34	Engineering the Transformation Strain in LiMn _{1-x} Fe _x PO ₄ Olivines for Ultrahigh Rate Battery Cathodes. <i>Nano Letters</i> , 2016, 16, 2375-2380.	4.5	45
35	Characterization of Electronic and Ionic Transport in Li _{1-x} Ni _x Co _{0.15} Al _{0.05} O ₈ . <i>Journal of the Electrochemical Society</i> , 2015, 162, A1163-A1169.	9.6	96
36	Scandium functionalized carbon aerogel: Synthesis of nanoparticles and structure of a new ScOCl and properties of NaAlH ₄ as a function of pore size. <i>Journal of Solid State Chemistry</i> , 2015, 231, 190-197.	1.4	9

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37	Na ₃ Ti ₂ (PO ₄) ₃ as a sodium-bearing anode for rechargeable aqueous sodium-ion batteries. <i>Electrochemistry Communications</i> , 2014, 44, 12-15.	2.3	63
38	Hydrogen reversibility of LiBH ₄ ~MgH ₂ ~Al composites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8970-8980.	1.3	23
39	Hydrogen Storage Capacity Loss in a LiBH ₄ ~Al Composite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7423-7432.	1.5	45
40	Investigation of MBH ₄ ~VCl ₂ , M=Li, Na or K. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8376-8383.	3.8	7
41	NMR Study of Molecular Dynamics in Complex Metal Borohydride LiZn ₂ (BH ₄) ₅ . <i>Journal of Physical Chemistry C</i> , 2013, 117, 21139-21147.	1.5	14
42	Mechanism for reversible hydrogen storage in LiBH ₄ ~Al. <i>Journal of Applied Physics</i> , 2012, 111, 112621.	1.1	27
43	Improved hydrogen storage kinetics of nanoconfined LiBH ₄ -MgH ₂ reactive hydride composites catalyzed with nickel Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1441, 1.	0.1	5
44	Potassium Zinc Borohydrides Containing Triangular [Zn(BH ₄) ₃] ⁺ and Tetrahedral [Zn(BH ₄) ₄] ⁻ Anions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1563-1571.	1.5	34
45	LiCe(BH ₄) ₃ Cl, a New Lithium-Ion Conductor and Hydrogen Storage Material with Isolated Tetranuclear Anionic Clusters. <i>Chemistry of Materials</i> , 2012, 24, 1654-1663.	3.2	128
46	Screening of Metal Borohydrides by Mechanochemistry and Diffraction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3582-3586.	7.2	83
47	A mixed-cation mixed-anion borohydride NaY(BH ₄) ₂ Cl ₂ . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8428-8438.	3.8	33
48	The Effect of H ₂ Partial Pressure on the Reaction Progression and Reversibility of Lithium-Containing Multicomponent Destabilized Hydrogen Storage Systems. <i>Journal of the American Chemical Society</i> , 2011, 133, 13534-13538.	6.6	23
49	Reorientational Motion in Alkali-Metal Borohydrides: NMR Data for RbBH ₄ and CsBH ₄ and Systematics of the Activation Energy Variations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10305-10309.	1.5	33
50	Iodide substitution in lithium borohydride, LiBH ₄ ~LiI. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8299-8305.	2.8	80
51	Tailoring properties of borohydrides for hydrogen storage: A review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1754-1773.	0.8	236
52	Chloride substitution in sodium borohydride. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1858-1866.	1.4	44
53	Pressure and Temperature Influence on the Desorption Pathway of the LiBH ₄ ~MgH ₂ Composite System. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15212-15217.	1.5	127
54	Mixed~Anion and Mixed~Cation Borohydride KZn(BH ₄)Cl ₂ : Synthesis, Structure and Thermal Decomposition. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1608-1612.	1.0	48

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55	Tuning hydrogen storage properties and reactivity: Investigation of the $\text{LiBH}_4\text{-NaAlH}_4$ system. Journal of Physics and Chemistry of Solids, 2010, 71, 1144-1149.	1.9	42
56	Thermal Polymorphism and Decomposition of $\text{Y}(\text{BH}_4)_3$. Inorganic Chemistry, 2010, 49, 3801-3809.	1.9	96
57	Structure and Characterization of $\text{KSc}(\text{BH}_4)_4$. Journal of Physical Chemistry C, 2010, 114, 19540-19549.	1.5	95
58	$\text{NaSc}(\text{BH}_4)_4$: A Novel Scandium-Based Borohydride. Journal of Physical Chemistry C, 2010, 114, 1357-1364.	1.5	137
59	Structure and Dynamics for $\text{LiBH}_4\text{-LiCl}$ Solid Solutions. Chemistry of Materials, 2009, 21, 5772-5782.	3.2	135