

# Anna Lena Hansen

## List of Publications by Year in descending order

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29  
papers

598  
citations

687335

13  
h-index

642715

23  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous versus Crystalline Li <sub>3</sub> PS <sub>4</sub> : Local Structural Changes during Synthesis and Li Ion Mobility. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10280-10290.	3.1	62
2	CuV <sub>2</sub> S <sub>4</sub> : A High Rate Capacity and Stable Anode Material for Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21283-21291.	8.0	58
3	Changing the Static and Dynamic Lattice Effects for the Improvement of the Ionic Transport Properties within the Argyrodite Li <sub>6</sub> PS <sub>5</sub> Se. <i>ACS Applied Energy Materials</i> , 2020, 3, 9-18.	5.1	52
4	Synthesis and Thermal Instability of High-Quality Bi <sub>2</sub> Te <sub>3</sub> /Sb <sub>2</sub> Te <sub>3</sub> Superlattice Thin Film Thermoelectrics. <i>Chemistry of Materials</i> , 2014, 26, 6518-6522.	6.7	42
5	Dynamics of porous and amorphous magnesium borohydride to understand solid state Mg-ion-conductors. <i>Scientific Reports</i> , 2020, 10, 9080.	3.3	38
6	Thermoelectric efficiency of (1 - x)(GeTe) x(Bi <sub>2</sub> Se <sub>0.2</sub> Te <sub>2.8</sub> ) and implementation into highly performing thermoelectric power generators. <i>Dalton Transactions</i> , 2015, 44, 2835-2843.	3.3	37
7	Elucidation of the Conversion Reaction of CoMnFeO <sub>4</sub> Nanoparticles in Lithium Ion Battery Anode via Operando Studies. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15320-15332.	8.0	35
8	Structure and Diffusion Pathways in Li <sub>6</sub> PS <sub>5</sub> Cl Argyrodite from Neutron Diffraction, Pair-Distribution Function Analysis, and NMR. <i>Chemistry of Materials</i> , 2020, 32, 8420-8430.	6.7	28
9	High-Entropy Polyanionic Lithium Superionic Conductors. , 2022, 4, 418-423.		27
10	Enhanced temperature stability and exceptionally high electrical contrast of selenium substituted Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> phase change materials. <i>RSC Advances</i> , 2017, 7, 17164-17172.	3.6	26
11	Unravelling the Zn-Cu Interaction during Activation of a Zn-promoted Cu/MgO Model Methanol Catalyst. <i>ChemCatChem</i> , 2021, 13, 4120-4132.	3.7	20
12	Structural properties of the thermoelectric material CuCrS <sub>2</sub> and of deintercalated Cu <sub>x</sub> CrS <sub>2</sub> on different length scales: X-ray diffraction, pair distribution function and transmission electron microscopy studies. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9331-9338.	5.5	18
13	Elucidation of the Sodium-Copper Extrusion Mechanism in CuCrS <sub>2</sub> : A High Capacity, Long-Life Anode Material for Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , 2018, 1, 176-183.	4.7	17
14	Investigation of the phase change mechanism of Ge <sub>6</sub> Sn <sub>2</sub> Sb <sub>2</sub> Te <sub>11</sub> . <i>Acta Materialia</i> , 2018, 152, 278-287.	7.9	15
15	Using light, X-rays and electrons for evaluation of the nanostructure of layered materials. <i>Nanoscale</i> , 2018, 10, 21142-21150.	5.6	15
16	Transition metal cations on the move: simultaneous <i>operando</i> X-ray absorption spectroscopy and X-ray diffraction investigations during Li uptake and release of a NiFe <sub>2</sub> O <sub>4</sub> /CNT composite. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19129-19141.	2.8	15
17	Nanostructure, thermoelectric properties, and transport theory of V <sub>2</sub> VI <sub>3</sub> and V <sub>2</sub> VI <sub>3</sub> /IV based superlattices and nanomaterials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 662-671.	1.8	13
18	High-Pressure Sintering of Rhombohedral Cr <sub>2</sub> S <sub>3</sub> Using Titanium-Zirconium-Molybdenum Tools. <i>Advanced Engineering Materials</i> , 2019, 21, 1900430.	3.5	10

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19	Unveiling the Reaction Mechanism during Li Uptake and Release of Nanosized $\text{NiFeMnO}_4$ : Operando X-ray Absorption, X-ray Diffraction, and Pair Distribution Function Investigations. ACS Omega, 2019, 4, 2398-2409.	3.5	9
20	Sputtered n-type $\text{Bi}_2\text{Te}_3 / (\text{Bi,Sb})_2\text{Te}_3$ superlattice systems. Nanothermoelectrics, 2013, 1, 1-9.	1.0	8
21	Garnet to hydrogarnet: effect of post synthesis treatment on cation substituted LLZO solid electrolyte and its effect on Li ion conductivity. RSC Advances, 2021, 11, 30283-30294.	3.6	8
22	Mechanochemical synthesis of amorphous and crystalline $\text{Na}_2\text{P}_2\text{S}_6$ – elucidation of local structural changes by X-ray total scattering and NMR. Dalton Transactions, 2020, 49, 1668-1673.	3.3	7
23	Extended Condensed Ultraphosphate Frameworks with Monovalent Ions Combine Lithium Mobility with High Computed Electrochemical Stability. Journal of the American Chemical Society, 2021, 143, 18216-18232.	13.7	7
24	Sn Substitution in the Lithium Superionic Argyrodite $\text{Li}_6\text{PCh}_5\text{I}$ (Ch = S and Se). Inorganic Chemistry, 2021, 60, 18975-18980.	4.0	7
25	Purification by SPS and formation of a unique 3D nanoscale network: the showcase of $\text{NiCr}_2\text{S}_4$ . Journal of Materials Chemistry C, 2019, 7, 15188-15196.	5.5	6
26	Bond Formation upon Water Removal in an Unusual "Pseudo" Topotactic Reaction Investigated by Single-Crystal Structure and in Situ Synchrotron X-ray Powder Diffraction Analysis. Crystal Growth and Design, 2019, 19, 5743-5750.	3.0	5
27	Synthesis, Crystal Structure, and Selected Properties of $[\text{Au}(\text{S}_2\text{CNH}_2)_2]_2\text{SCN}$ : A Precursor for Gold Macro"Needles Consisting of Gold Nanoparticles Glued by Graphitic Carbon Nitride. Chemistry - A European Journal, 2019, 25, 6763-6772.	3.3	5
28	Temperature-dependent synchrotron X-ray diffraction, pair distribution function and susceptibility study on the layered compound $\text{CrTe}_3$ . Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 361-370.	0.8	4
29	Mechanochemical Synthesis and Magnetic Characterization of Nanosized Cubic Spinel $\text{FeCr}_2\text{S}_4$ Particles. ACS Omega, 2021, 6, 13375-13383.	3.5	3