

# Natalie Holzwarth

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

2,366  
citations

840776

11  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

4037  
citing authors

#	ARTICLE	IF	CITATIONS
1	First Principles Simulations of Li Boracites $B_7O_{12}Cl$ and $B_7O_{12}S$	2.4	3
2	Cubic spline solver for generalized density functional treatments of atoms and generation of atomic datasets for use with exchange-correlation functionals including meta-GGA. Physical Review B, 2022, 105, .	3.2	9
3	First Principles Simulations to Understand the Structural and Electrolyte Properties of Idealized $Li_7.5B_{10}S_{18}X$ ( $X = Cl, Br, I$ ) Li Superionic Conductors Recently Identified in the Experimental Literature. ECS Meeting Abstracts, 2021, MA2021-02, 255-255.	2.4	3
4	Computational study of $Li_3B_3O_6$ and $Li_3B_3O_6$ model interfaces with Li. Physical Review Materials, 2021, 5, .	2.4	4
5	Computational study of $Li_3B_3O_6$ and $Li_3B_3O_6$ model interfaces with Li. Physical Review Materials, 2021, 5, .	2.4	3
6	Computational Investigation of Known and Predicted Li Boracites $Li_4B_7O_{12}Cl$ and $Li_4B_7S_{12}Cl$ as Solid Electrolytes Having Possible Applications for Developing All Solid-state Li Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 255-255.	0.0	0
7	First Principles Simulations to Understand the Structural and Electrolyte Properties of Idealized $Li_7.5B_{10}S_{18}X$ ( $X = Cl, Br, I$ ) Li Superionic Conductors Recently Identified in the Experimental Literature. ECS Meeting Abstracts, 2021, MA2021-02, 256-256.	0.0	0
8	The Abinitproject: Impact, environment and recent developments. Computer Physics Communications, 2020, 248, 107042.	7.5	369
9	Continuity of phonon dispersion curves in layered ionic materials. Journal of Physics Condensed Matter, 2020, 32, 055402.	1.8	2
10	Computational and experimental (re)investigation of the structural and electrolyte properties of $Li_4B_7O_{12}Cl$ and $Li_4B_7S_{12}Cl$ . Physical Review Materials, 2020, 4, .	2.4	4
11	Unraveling the electrolyte properties of $Li_3B_3O_6$ through computation and experiment. Physical Review Materials, 2017, 1, .	2.4	36
12	Fundamental aspects of the structural and electrolyte properties of $Li_2OHCl$ from simulations and experiment. Physical Review Materials, 2017, 1, .	2.4	36
13	Reproducibility in density functional theory calculations of solids. Science, 2016, 351, aad3000.	12.6	1,113
14	Modeling interfaces between solids: Application to Li battery materials. Physical Review B, 2015, 92, .	3.2	68
15	Crystalline Inorganic Solid Electrolytes: Computer Simulations and Comparisons with Experiment. Materials and Energy, 2015, , 191-232.	0.1	1
16	$Cu_2ZnSnS_4O_4$ and $Cu_2ZnSnS_4Se_4$ : First principles simulations of optimal alloy configurations and their energies. Journal of Applied Physics, 2014, 115, .	2.5	22
17	Generation of Projector Augmented-Wave atomic data: A 71 element validated table in the XML format. Computer Physics Communications, 2014, 185, 1246-1254.	7.5	202
18	Structures, $Li_3B_3O_6$ mobilities, and interfacial properties of solid electrolytes $Li_3B_3O_6PS$	3.2	138

#	ARTICLE	IF	CITATIONS
19	Computer Modeling of Crystalline Electrolytes: Lithium Thiophosphates and Phosphates. Journal of the Electrochemical Society, 2012, 159, A538-A547.	2.9	41
20	First Principles Simulations of Li Ion Migration in Materials Related to LiPON Electrolytes. ECS Transactions, 2010, 25, 27-36.	0.5	4
21	Li <sup>+</sup> diffusion in crystalline $\text{Li}^3$ - and $\text{Li}^2$ -	3.2	93
22	Comparison of the projector augmented-wave, pseudopotential, and linearized augmented-plane-wave formalisms for density-functional calculations of solids. Physical Review B, 1997, 55, 2005-2017.	3.2	230