

# Alastair Hales

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/539181/publications.pdf>

Version: 2024-02-01

18  
papers

687  
citations

840776

11  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

420  
citing authors

#	ARTICLE	IF	CITATIONS
1	A system for determining Li-ion cell cooling coefficients. <i>HardwareX</i> , 2022, 11, e00257.	2.2	2
2	Measuring Irreversible Heat Generation in Lithium-Ion Batteries: An Experimental Methodology. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030523.	2.9	13
3	Novel methods for measuring the thermal diffusivity and the thermal conductivity of a lithium-ion battery. <i>Applied Thermal Engineering</i> , 2022, 212, 118573.	6.0	4
4	Thermal evaluation of lithium-ion batteries: Defining the cylindrical cell cooling coefficient. <i>Journal of Energy Storage</i> , 2022, 54, 105217.	8.1	3
5	Lithium ion battery degradation: what you need to know. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8200-8221.	2.8	330
6	The prismatic surface cell cooling coefficient: A novel cell design optimisation tool & thermal parameterization method for a 3D discretised electro-thermal equivalent-circuit model. <i>ETransportation</i> , 2021, 7, 100099.	14.8	15
7	Cost and carbon footprint reduction of electric vehicle lithium-ion batteries through efficient thermal management. <i>Applied Energy</i> , 2021, 289, 116737.	10.1	65
8	The Cell Cooling Coefficient as a design tool to optimise thermal management of lithium-ion cells in battery packs. <i>ETransportation</i> , 2020, 6, 100089.	14.8	17
9	The role of cell geometry when selecting tab or surface cooling to minimise cell degradation. <i>ETransportation</i> , 2020, 5, 100073.	14.8	20
10	The Surface Cell Cooling Coefficient: A Standard to Define Heat Rejection from Lithium Ion Battery Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020524.	2.9	28
11	Cool metric for lithium-ion batteries could spur progress. <i>Nature</i> , 2020, 582, 485-487.	27.8	49
12	The Cell Cooling Coefficient: A Standard to Define Heat Rejection from Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2383-A2395.	2.9	46
13	Optimisation of low energy cooling through phase variation between adjacent piezoelectric fan blades. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 362-372.	4.8	15
14	Geometric optimisation of piezoelectric fan arrays for low energy cooling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 52-63.	4.8	9
15	A review of piezoelectric fans for low energy cooling of power electronics. <i>Applied Energy</i> , 2018, 215, 321-337.	10.1	47
16	Noninvasive Monitoring by Ultrasound of Liquid Foodstuff to Ice Slurry Transitions Within Steel Ducts and Pipes. <i>Journal of Food Process Engineering</i> , 2017, 40, e12415.	2.9	5
17	Noninvasive Ultrasonic Monitoring of Ice Pigging in Pipes Containing Liquid Food Materials. <i>Journal of Food Process Engineering</i> , 2017, 40, e12306.	2.9	8
18	Ice formation in the subcooled brine environment. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 198-205.	4.8	11