

# Maria Hahlin

## List of Publications by Year in descending order

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32  
papers

1,300  
citations

331670

21  
h-index

414414

32  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2001  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface layer formation in solid polymer electrolyte lithium batteries: an XPS study. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7256-7264.	10.3	296
2	Consequences of air exposure on the lithiated graphite SEI. <i>Electrochimica Acta</i> , 2013, 105, 83-91.	5.2	86
3	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	70
4	How the Negative Electrode Influences Interfacial and Electrochemical Properties of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Cathodes in Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3054-A3059.	2.9	67
5	Electric Potential Gradient at the Buried Interface between Lithium-Ion Battery Electrodes and the SEI Observed Using Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1775-1780.	4.6	62
6	HIPPIE: a new platform for ambient-pressure X-ray photoelectron spectroscopy at the MAX IV Laboratory. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 624-636.	2.4	60
7	The impact of size effects on the electrochemical behaviour of $\text{Cu}_2\text{O}$ -coated Cu nanopillars for advanced Li-ion microbatteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9574.	10.3	52
8	Nature of the Cathode-Electrolyte Interface in Highly Concentrated Electrolytes Used in Graphite Dual-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3867-3880.	8.0	47
9	Manganese in the SEI Layer of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Studied by Combined NEXAFS and HAXPES Techniques. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3206-3213.	3.1	44
10	A versatile photoelectron spectrometer for pressures up to 30 mbar. <i>Review of Scientific Instruments</i> , 2014, 85, 075119.	1.3	41
11	Probing a battery electrolyte drop with ambient pressure photoelectron spectroscopy. <i>Nature Communications</i> , 2019, 10, 3080.	12.8	41
12	Preventing Dye Aggregation on ZnO by Adding Water in the Dye-Sensitization Process. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19274-19279.	3.1	40
13	Improved cycling stability in high-capacity Li-rich vanadium containing disordered rock salt oxyfluoride cathodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21244-21253.	10.3	37
14	A high pressure x-ray photoelectron spectroscopy experimental method for characterization of solid-liquid interfaces demonstrated with a Li-ion battery system. <i>Review of Scientific Instruments</i> , 2015, 86, 044101.	1.3	34
15	Breaking Down a Complex System: Interpreting PES Peak Positions for Cycled Li-Ion Battery Electrodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27303-27312.	3.1	33
16	How Mn/Ni Ordering Controls Electrochemical Performance in High-Voltage Spinel $\text{LiNi}_{0.44}\text{Mn}_{1.56}\text{O}_4$ with Fixed Oxygen Content. <i>ACS Applied Energy Materials</i> , 2020, 3, 6001-6013.	5.1	33
17	Influence of Water on the Electronic and Molecular Surface Structures of Ru-Dyes at Nanostructured $\text{TiO}_2$ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 11996-12004.	3.1	31
18	Degradation Mechanisms in $\text{Li}_2\text{VO}_2\text{F}$ Li-Rich Disordered Rock-Salt Cathodes. <i>Chemistry of Materials</i> , 2019, 31, 6084-6096.	6.7	31

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19	Early-stage decomposition of solid polymer electrolytes in Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22462-22471.	10.3	26
20	A study of the pressure profiles near the first pumping aperture in a high pressure photoelectron spectrometer. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 205, 57-65.	1.7	24
21	Increased photoelectron transmission in High-pressure photoelectron spectrometers using $\alpha$ -oeswift acceleration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 785, 191-196.	1.6	22
22	Excess Lithium in Transition Metal Layers of Epitaxially Grown Thin Film Cathodes of $\text{Li}_{2-x}\text{MnO}_3$ Leads to Rapid Loss of Covalency during First Battery Cycle. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28519-28526.	3.1	19
23	Stabilization of Li-Rich Disordered Rocksalt Oxyfluoride Cathodes by Particle Surface Modification. <i>ACS Applied Energy Materials</i> , 2020, 3, 5937-5948.	5.1	19
24	Aging of Electrode/Electrolyte Interfaces in $\text{LiFePO}_4$ /Graphite Cells Cycled with and without PMS Additive. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12649-12660.	3.1	17
25	Electronic and Structural Changes in $\text{Ni}_{0.5}\text{TiOPO}_4$ Li-Ion Battery Cells Upon First Lithiation and Delithiation, Studied by High-Energy X-ray Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9692-9704.	3.1	17
26	Mapping the frontier electronic structures of triphenylamine based organic dyes at $\text{TiO}_2$ interfaces. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3534-3546.	2.8	10
27	Coadsorption of Dye Molecules at $\text{TiO}_2$ Surfaces: A Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12484-12494.	3.1	8
28	Influence of Electrolyte Additives on the Degradation of $\text{Li}_2\text{VO}_2\text{F}$ Li-Rich Cathodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12956-12967.	3.1	8
29	In-Situ Probing of H <sub>2</sub> O Effects on a Ru-Complex Adsorbed on $\text{TiO}_2$ Using Ambient Pressure Photoelectron Spectroscopy. <i>Topics in Catalysis</i> , 2016, 59, 583-590.	2.8	7
30	Potentials in Li-Ion Batteries Probed by Operando Ambient Pressure Photoelectron Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 6465-6475.	8.0	7
31	Probing Electrochemical Potential Differences over the Solid/Liquid Interface in Li-Ion Battery Model Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32989-32996.	8.0	6
32	Dissecting the Solid Polymer Electrolyte-Electrode Interface in the Vicinity of Electrochemical Stability Limits. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28716-28728.	8.0	5