

# Stephan RÄjser

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Understanding the Outstanding High Voltage Performance of NCM523   Graphite Lithium Ion Cells after Elimination of Ethylene Carbonate Solvent from Conventional Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2003738.	19.5	86
2	High Voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Lithium Ion Cells at Elevated Temperatures: Carbonate- versus Ionic Liquid-Based Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25971-25978.	8.0	78
3	Do Increased Ni Contents in LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>z</sub> O <sub>2</sub> (NMC) Electrodes Decrease Structural and Thermal Stability of Li Ion Batteries? A Thorough Look by Consideration of the Li <sup>+</sup> Extraction Ratio. <i>ACS Applied Energy Materials</i> , 2019, 2, 7733-7737.	5.1	73
4	Lifetime limit of tris(trimethylsilyl) phosphite as electrolyte additive for high voltage lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 38342-38349.	3.6	70
5	Counterintuitive Role of Magnesium Salts as Effective Electrolyte Additives for High Voltage Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600096.	3.7	57
6	Phosphorus additives for improving high voltage stability and safety of lithium ion batteries. <i>Journal of Fluorine Chemistry</i> , 2017, 198, 24-33.	1.7	54
7	Highly Effective Solid Electrolyte Interphase-Forming Electrolyte Additive Enabling High Voltage Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 7733-7739.	6.7	41
8	Influence of LiPF <sub>6</sub> on the Aluminum Current Collector Dissolution in High Voltage Lithium Ion Batteries after Long-Term Charge/Discharge Experiments. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1474-A1479.	2.9	40
9	Single-Ion versus Dual-Ion Conducting Electrolytes: The Relevance of Concentration Polarization in Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11559-11566.	8.0	34
10	Re-evaluating common electrolyte additives for high-voltage lithium ion batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100521.	5.6	32
11	Alternative Single-Solvent Electrolytes Based on Cyanoesters for Safer Lithium Ion Batteries. <i>ChemSusChem</i> , 2016, 9, 1704-1711.	6.8	30
12	Trimethylsiloxy based metal complexes as electrolyte additives for high voltage application in lithium ion cells. <i>Electrochimica Acta</i> , 2017, 235, 332-339.	5.2	24
13	Innovative, Non-Corrosive LiTFSI Cyanoester-Based Electrolyte for Safer 4...V Lithium Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 304-309.	3.4	19
14	Pragmatic Approaches to Correlate between the Physicochemical Properties of a Linear Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 T Journal of Physical Chemistry C, 2021, 125, 18089-18097.	3.1	18
15	Ester Modified Pyrrolidinium Based Ionic Liquids as Electrolyte Component Candidates in Rechargeable Lithium Batteries. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2536-2542.	1.2	10
16	Compatibility of Various Electrolytes with Cation Disordered Rocksalt Cathodes in Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 10909-10920.	5.1	9