

# Wessel van den Bergh

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Expert in analyzing design-performance relationships for both cathode and anode active materials with experience from nanoscale theory to industry applications, 10 years of research experience and 6 years in energy storage. Key skills include:

Materials synthesis - Electrochemical testing - battery testing - MATLAB - R – Management - Design of Experiment (DOE) - Scientific communication - Li-ion batteries - Solid-state - Liquid ion

## WORK EXPERIENCE

*Research Chemist – KIT/BASF, Leopoldshafen, Germany*

*08/2022 - present*

- Leader on synthesizing and analyzing high nickel single crystal NCM cathodes in collaboration with multiple partners.
- Planned and prepared electrochemical cells both for solid-state and liquid-ion testing (MACCOR).
- Used design of experiment (JMP) to identify critical factors in synthesis of materials and prepared R analysis scripts to prepare and present raw data.

*PhD Researcher – University of South Carolina, Columbia, SC*

*08/2017 - 05/2022*

- Used MATLAB analysis scripts to extract and analyze raw data with novel and now publish methods.
- Prepared materials for systematic analysis using a combination of X-ray, electron microscopy, and electrochemical testing (BIOLOGIC).
- Managed lab safety, trained and advised research students for materials synthesis and characterization.

*Process Chemist – Vertellus, Zeeland, MI*

*05/2016 - 09/2016*

- Used DOE to determine key factors of synthetic menthol crystallization to meet customer demands.
- Experience with scale-up production such as with fractional distillation for memory foam compounds.
- Summer program for Bachelor's degree students to gain experience in industry

*Researcher – MSU Bioeconomy Institute, Holland, MI*

*05/2014 - 05/2015*

- You don't need to include every job you've ever had on your resume. Stick to the jobs that are most relevant and demonstrate your career trajectory.
- For example, if you are a Project Manager, you probably don't need to mention the supermarket job you had as a teenager.

## EDUCATION

*Doctorate in chemistry – University of South Carolina, Columbia, SC*

*Graduation Year – 2022*

*Bachelor's in chemistry – Hope College, Location*

*Graduation Year – 2023*