

# Philipp Dechent

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8636832/publications.pdf>

Version: 2024-02-01

15  
papers

1,103  
citations

840776

11  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

873  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Development of a lifetime prediction model for lithium-ion batteries based on extended accelerated aging test data. Journal of Power Sources, 2012, 215, 248-257.  | 7.8  | 438       |
| 2  | Online capacity estimation of lithium-ion batteries with deep long short-term memory networks. Journal of Power Sources, 2021, 482, 228863.  | 7.8  | 180       |
| 3  | Review of Knees in Lithium-Ion Battery Aging Trajectories. Journal of the Electrochemical Society, 2022, 169, 060517.  | 2.9  | 122       |
| 4  | One-shot battery degradation trajectory prediction with deep learning. Journal of Power Sources, 2021, 506, 230024.  | 7.8  | 89        |
| 5  | High-Precision Monitoring of Volume Change of Commercial Lithium-Ion Batteries by Using Strain Gauges. Sustainability, 2020, 12, 557.  | 3.2  | 66        |
| 6  | Inhomogeneities and Cell-to-Cell Variations in Lithium-Ion Batteries, a Review. Energies, 2021, 14, 3276.  | 3.1  | 50        |
| 7  | Investigation of capacity recovery during rest period at different states-of-charge after cycle life test for prismatic Li(Ni1/3Mn1/3Co1/3)O2-graphite cells. Journal of Energy Storage, 2019, 21, 680-690.              | 8.1  | 44        |
| 8  | The Development of Jelly Roll Deformation in 18650 Lithium-Ion Batteries at Low State of Charge. Journal of the Electrochemical Society, 2020, 167, 120502.  | 2.9  | 36        |
| 9  | Estimation of Li-Ion Degradation Test Sample Sizes Required to Understand Cell-to-Cell Variability**. Batteries and Supercaps, 2021, 4, 1821-1829.   | 4.7  | 23        |
| 10 | ENPOLITE: Comparing Lithium-Ion Cells across Energy, Power, Lifetime, and Temperature. ACS Energy Letters, 2021, 6, 2351-2355.   | 17.4 | 21        |
| 11 | A Minimal Information Set To Enable Verifiable Theoretical Battery Research. ACS Energy Letters, 2021, 6, 3831-3835.   | 17.4 | 19        |
| 12 | A Comprehensive Electric Vehicle Model for Vehicle-to-Grid Strategy Development. Energies, 2022, 15, 4186.   | 3.1  | 6         |
| 13 | Automatic method for the estimation of li-ion degradation test sample sizes required to understand cell-to-cell variability. Energy and AI, 2022, 9, 100174.   | 10.6 | 4         |
| 14 | A Review on Aging-Aware System Simulation for Plug-In Hybrids. IEEE Transactions on Transportation Electrification, 2022, 8, 1524-1540.  | 7.8  | 3         |
| 15 | Improving Aging Prediction for Electric Vehicle Operation with Combined Electrical, Thermal and Aging Model for Lithium-Ion Battery Packs Using Quantitative Cell Data. ECS Meeting Abstracts, 2019, MA2019-04, 104-104. | 0.0  | 2         |