

# 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	A Review on Aging-Aware System Simulation for Plug-In Hybrids. IEEE Transactions on Transportation Electrification, 2022, 8, 1524-1540.	7.8	3
2	Review of Knees in Lithium-Ion Battery Aging Trajectories. Journal of the Electrochemical Society, 2022, 169, 060517.	2.9	122
3	A Comprehensive Electric Vehicle Model for Vehicle-to-Grid Strategy Development. Energies, 2022, 15, 4186.	3.1	6
4	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
5	Online capacity estimation of lithium-ion batteries with deep long short-term memory networks. Journal of Power Sources, 2021, 482, 228863.	7.8	180
6	ENPOLITE: Comparing Lithium-Ion Cells across Energy, Power, Lifetime, and Temperature. ACS Energy Letters, 2021, 6, 2351-2355.	17.4	21
7	Inhomogeneities and Cell-to-Cell Variations in Lithium-Ion Batteries, a Review. Energies, 2021, 14, 3276.	3.1	50
8	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
9	One-shot battery degradation trajectory prediction with deep learning. Journal of Power Sources, 2021, 506, 230024.	7.8	89
10	A Minimal Information Set To Enable Verifiable Theoretical Battery Research. ACS Energy Letters, 2021, 6, 3831-3835.	17.4	19
11	High-Precision Monitoring of Volume Change of Commercial Lithium-Ion Batteries by Using Strain Gauges. Sustainability, 2020, 12, 557.	3.2	66
12	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
13	Investigation of capacity recovery during rest period at different states-of-charge after cycle life test for prismatic Li(Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> )O <sub>2</sub> -graphite cells. Journal of Energy Storage, 2019, 21, 680-690.	8.1	44
14	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
15	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