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From ROM of Electrochemistry to AI-Based Battery Digital and Hybrid Twin

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#	Paper	IF	Citations
22	A novel sparse reduced order formulation for modeling electromagnetic forces in electric motors. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	1
21	Fast Computation of Multi-Parametric Electromagnetic Fields in Synchronous Machines by Using PGD-Based Fully Separated Representations. <i>Energies</i> , 2021 , 14, 1454	3.1	1
20	Application of Digital Twin in Smart Battery Management Systems. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021 , 34,	2.5	8
19	Autonomous, context-aware, adaptive Digital TwinsState of the art and roadmap. <i>Computers in Industry</i> , 2021 , 133, 103508	11.6	8
18	Simplified Li Ion Cell Model for BMS Coupling an Equivalent Circuit Dynamic Model with a Zero Dimensional Physics Based SEI Model. <i>Journal of the Electrochemical Society</i> ,	3.9	0
17	Implementation of Battery Digital Twin: Approach, Functionalities and Benefits. <i>Batteries</i> , 2021 , 7, 78	5.7	6
16	Development of a Digital Twin for Improved Ramp-Up Processes in the Context of Li-Ion-Battery-Cell-Stack-Formation. <i>Procedia CIRP</i> , 2022 , 106, 27-32	1.8	2
15	Physics perception in sloshing scenes with guaranteed thermodynamic consistency.. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022 , PP,	13.3	
14	Engineering empowered by physics-based and data-driven hybrid models: A methodological overview. <i>International Journal of Material Forming</i> , 2022 , 15, 1	2	0
13	A Digital Twin-Driven Life Prediction Method of Lithium-Ion Batteries Based on Adaptive Model Evolution.. <i>Materials</i> , 2022 , 15,	3.5	0
12	Digital twinBased testing process management for large and complex equipment components. <i>International Journal of Advanced Manufacturing Technology</i> ,	3.2	2
11	A Survey of Digital Twin Techniques in Smart Manufacturing and Management of Energy Applications. 2022 , 100014		5
10	Reconfigurable battery systems: Challenges and safety solutions using intelligent system framework based on digital twins.		0
9	Digital Technology Implementation in Battery-Management Systems for Sustainable Energy Storage: Review, Challenges, and Recommendations. 2022 , 11, 2695		2
8	Modeling systems from partial observations. 9,		0
7	Empowering engineering with data, machine learning and artificial intelligence: a short introductory review. 2022 , 9,		0
6	Overview of Digital Twin Platforms for EV Applications. 2023 , 23, 1414		0

- 5 Use Cases for Digital Twins in Battery Cell Manufacturing. **2023**, 833-842 ○
- 4 Regularized regressions for parametric models based on separated representations. **2023**, 10, ○
- 3 Digital twin in battery energy storage systems: Trends and gaps detection through association rule mining. **2023**, 273, 127086 ○
- 2 Digital twin of electric vehicle battery systems: Comprehensive review of the use cases, requirements, and platforms. **2023**, 179, 113280 ○
- 1 Metamodelling of Manufacturing Processes and Automation Workflows towards Designing and Operating Digital Twins. **2023**, 13, 1945 ○