

Peer-reviewed ISI-listed articles

2018

75. C. Kupper, B. Weißhar, S. Reißmann, and W. G. Bessler, "End-of-life prediction of a lithium-ion battery cell based on mechanistic aging models of the graphite electrode" *J. Electrochem. Soc.* 165, A3468-A3480 (2018), DOI: 10.1149/2.0941814jes.
74. R. J. Kee, P. Weddle, H. Zhu, G. Jackson, A. Colclasure, W. G. Bessler, and S. DeCaluwe, "On the fundamental and practical aspects of modeling complex electrochemical kinetics and transport", *J. Electrochem. Soc.*, in press (2018).
73. M. Mayur, M. Gerard, P. Schott, and W. G. Bessler, "Lifetime prediction of a Polymer Electrolyte Membrane fuel cell under automotive load cycling using a physically-based catalyst degradation model," *Energies*, 11, 2054, DOI: 10.3390/en11082054 (2018).
72. F. Hall, J. Touzri, S. Wußler, H. Buqa, and W. G. Bessler, "Experimental Investigation of the Thermal and Cycling Behavior of a Lithium Titanate-based Lithium-ion Pouch Cell," *J. Energy Storage* 17, 109-117, DOI: 10.1016/j.est.2018.02.012 (2018).

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71. B. Weißhar and W. G. Bessler, "Model-Based Lifetime Prediction of an LFP/Graphite Lithium-ion Battery in a Stationary Photovoltaic Battery System," *J. Energy Storage* 14, 179-191, DOI: 10.1016/j.est.2017.10.002 (2017).
70. M. Mayur and W. G. Bessler, "Two-Dimensional Computational Fluid Dynamics Analysis of Transport Limitations of Different Electrolyte Systems in a Lithium-Air Button Cell Cathode," *J. Electrochem. Soc.* 164, E3489-E3498, DOI: 10.1149/2.0451711jes (2017).
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65. F. Hall, S. Wußler, H. Buqa, and W. G. Bessler, "On the asymmetry of discharge/charge curves of lithium-ion battery intercalation electrodes," *J. Phys. Chem. C*, 120 (41), 23407-23414, DOI: 10.1021/acs.jpcc.6b07949 (2016).
64. D. Grübl, J. Janek, and W. G. Bessler, "Electrochemical pressure impedance spectroscopy (EPIS) as diagnostic method for electrochemical cells with gaseous reactants: A model-based analysis," *J. Electrochem. Soc.* 163, A599-A610, DOI: 10.1149/2.1041603jes (2016).
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