

BMS – Battery Management Seminars and Workshops 2018

Related Documents and Links

Battery Management

- The results of overcharge induced TR for a commercial lithium ion battery
Quelle: Fenga et al., *Thermal runaway mechanism of lithium ion battery for electric vehicles: A review*,
<http://dx.doi.org/10.1016/j.ensm.2017.05.013>
- Saw et al., *Electrochemical–thermal analysis of 18650 Lithium Iron Phosphate cell*, *Energy Conversion and Management* 75 (2013) 162–174
https://www.researchgate.net/publication/259382210_Electrochemical-thermal_analysis_of_18650_Lithium_Iron_Phosphate_cell
- Saw et al., *Electrochemical-thermal analysis of 18650 Lithium Iron Phosphate cell*, *Energy Conversion and Management* 75 (2013) 162–174
https://www.researchgate.net/figure/Schematic-depicting-the-graphite-staging-process-during-the-lithium-intercalation_fig3_321039460
- Experimental setup for temperature measurement
Quelle: Saw et al., *Electrochemical–thermal analysis of 18650 Lithium Iron Phosphate cell*, *Energy Conversion and Management* 75 (2013) 162–174
https://www.sciencedirect.com/user/login?returnURL=https%3A%2F%2Fwww.sciencedirect.com%2Fscience%3F_ob%3DShoppingCartURL%26_method%3Dadd%26_eid%3D1-s2.0-S2405829716303464%26originContentFamily%3Dserial%26_origin%3Darticle%26_ts%3D1529305118%26md5%3D6e6e39b1582afb95273b7cf6de985a96
- Thermal protection sheet (Graphite Sheet (PGS)/PGS applied products/NASBIS)
<https://industrial.panasonic.com/ww/products/thermal-solutions/graphite-sheet-pgs/pgs>
<https://industrial.panasonic.com/cdbs/www-data/pdf/AYA0000/AYA0000COL24.pdf>
- Thermal Behavior of NMC LIB
Zhao et al., *Thermal behavior study of discharging/charging cylindrical lithium-ion battery module cooled by channeled liquid flow*,
<https://doi.org/10.1016/j.ijheatmasstransfer.2017.12.083>

Electro Impedance Spectroscopy

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http://www.qucosa.de/fileadmin/data/qucosa/documents/18094/Habilitation_Troeltzsch_Uwe.pdf

- [2] BirkI, Cristoph; Howey, David. Model identification and parameter estimation for LiFePO₄batteries. *Energy and Power Group, Department of Engineering Science, University of Oxford, UK*

http://epg.eng.ox.ac.uk/sites/default/files/Howey/HEVC_IET_BirkI_Howey_Zhao_corr_0105_15-2.pdf
- [3] Al Nazar, Rouba; Cattin Viviane; Granjon, Pierre; Montaru, Maxime. A NEW OPTIMIZATION ALGORITHM FOR A LI-ION BATTERY EQUIVALENT ELECTRICAL CIRCUIT IDENTIFICATION. 9th International Conference of Modeling, Optimization and Simulation - MOSIM'12. June 06-08, 2012 – Bordeaux – France, “Performance, interoperability and safety for sustainable development”

<https://www.gipsa-lab.grenoble-inp.fr/~pierre.granjon/doc/publi/confMOSIM12.pdf>
- [4] Uddin, Kotub ; Picarelli, Alessandro; Lyness, Christopher; Taylor, Nigel; Marco, James. An Acausal Li-Ion Battery Pack Model for Automotive Applications. *Energies* 2014, 7, 5675-5700; doi:10.3390/en7095675, ISSN 1996-1073

https://www.google.com/search?client=firefox-b-ab&ei=iWEnW-P_GcnPwQKR_52oBQ&q=An+Acausal+Li-Ion+Battery+Pack+Model+for+Automotive+Applications.+Energies+2014%2C+7%2C+5675-5700%3B+doi%3A10.3390%2Fen7095675%2C+ISSN+1996-1073&og=An+Acausal+Li-Ion+Battery+Pack+Model+for+Automotive+Applications.+Energies+2014%2C+7%2C+5675-5700%3B+doi%3A10.3390%2Fen7095675%2C+ISSN+1996-1073&gs_l=psy-ab.12...60464.64382.0.65192.3.3.0.0.0.0.0.0...0...1c.1.64.psy-ab..3.0.0...0.ahjdN9YS_K4
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<https://www.semanticscholar.org/paper/Investigation-of-Long-Time-Beef-and-Veal-Meat-by-Guermazi-Kanoun/32dd763125783d81fa48c103026853e47abb6b7c>
- [6] U. Tröltzsch, O. Kanoun und H.-R. Tränkler, Characterizing aging effects of lithium ion batteries by impedance spectroscopy, *Electrochim. Acta*, vol. 51,.

https://scholar.google.de/citations?user=_dHRsIYAAAAJ&hl=de#d=gs_md_cita-d&p=&u=%2Fcitations%3Fview_op%3Dview_citation%26hl%3Dde%26user%3D_dHRsIYAAAAJ%26citation_for_view%3D_dHRsIYAAAAJ%3AY0pCki6g_DkC%26tzom%3D-120
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