






List of publications of Yves Mollet

List fulfilling the [Guide for applicants 2019](#)'s requirements

3. Articles published in peer-review journals

1. Nesci Soares, M., **Mollet, Y.**, Kinnaert, M., Helsen, J., & Gyselinck, J. (2018). Robust Power-Electronic-Converter Fault Detection and Isolation Technique for DFIG Wind Turbines *Journal of physics. Conference series*, 1037(3), 032043. doi:10.1088/1742-6596/1037/3/032043
2. Ciceo, S., **Mollet, Y.**, Sarrazin, M., van der Auweraer, H., & Martis, C. (2016, December 01). Model-Based Design and Testing for Electric Vehicle Energy Consumption Analysis *EEA - Electrotehnica, Electronica, Automatica*, 64(4), 46-51.
 https://dipot.ulb.ac.be/dspace/bitstream/2013/269408/3/Sebastian_Ciceo_EV_2015_Revizuit_Final.pdf
3. **Mollet, Y.**, Sarrazin, M., van der Auweraer, H., & Gyselinck, J. (2016, March 09). Noise and vibrations of switched reluctance machine drives - influence of the current hysteresis control *Electrotehnica, electronica, automatica. Electrotehnica*, 64(1), 33-41.
 https://dipot.ulb.ac.be/dspace/bitstream/2013/228561/3/EEA_ICPE_postprint.pdf
4. Meinguet, F., Semail, E., Kestelyn, X., **Mollet, Y.**, & Gyselinck, J. (2014). A change-detection algorithm for short-circuit fault detection in closed-loop AC drives *IET Electric Power Applications*, 8(5), 165-177. doi:10.1049/iet-epa.2012.0316
 https://dipot.ulb.ac.be/dspace/bitstream/2013/149663/1/Meinguet_L2EP_IET_Power_Applications_2013_semail.pdf

4. Articles published in conference proceedings

1. **Mollet, Y.**, Chauvicourt, F., Pelletier, J., Sarrazin, M., Faria, C. C., van der Auweraer, H., & Gyselinck, J. (2018). Investigation of the influence of DC-bus voltage on switched reluctance machines regarding noise and vibrations Abstract session presented at (September 17-19, 2018: Leuven, Belgium).
 https://dipot.ulb.ac.be/dspace/bitstream/2013/277191/3/ISMA_2018_06_27.pdf
2. Peng, W., Pelletier, J., **Mollet, Y.**, & Gyselinck, J. (2018, September 06). Torque Sharing Function and Firing Angle Control of Switched Reluctance Machines: Hysteresis Current control Versus PWM *XXIIIrd International Conference on Electrical Machines (ICEM'2018)*. IEEE.
3. Zhang, X., **Mollet, Y.**, Yang, J., & Gyselinck, J. (2018, September 06). Current Controller Design in Discrete-time Domain for PMSM/G in Flywheel Energy Storage Systems *XXIIIrd International Conference on Electrical Machines (ICEM'2018)*. IEEE.
 https://dipot.ulb.ac.be/dspace/bitstream/2013/277190/3/ICEM_2018_last_version.pdf
4. **Mollet, Y.**, Pergolesi, M., Sarrazin, M., Janssens, K., van der Auweraer, H., Chiariotti, P., Castellini, P., & Gyselinck, J. (2018, September 05). Multi-Physical Signature Analysis of Induction Machines under Unbalanced Supply Voltage *XXIIIrd International Conference on Electrical Machines (ICEM'2018)*. IEEE.

- https://dipot.ulb.ac.be/dspace/bitstream/2013/277188/3/ICEM_accepted_version.pdf
5. **Mollet, Y.**, Sarrazin, M., van der Auweraer, H., & Gyselinck, J. (2018, February 22). Investigation of the Influence of Open-Phase Faults on Noise and Vibrations of Switched Reluctance Machines *Proceedings of the 2018 IEEE International Conference on Industrial Technology (ICIT)* (pp. 451-456). IEEE.
https://dipot.ulb.ac.be/dspace/bitstream/2013/268024/3/ICIT_2018_Yves_Mollet_accepted_version.pdf
 6. **Mollet, Y.**, Sabariego, R., & Gyselinck, J. (2017, May 25). Influence of 2D and 3D Meshes in FE Computation of Eddy-Current Losses in Surface PMSMs *Proceedings of OPTIM-ACEMP 2017*. IEEE.
https://dipot.ulb.ac.be/dspace/bitstream/2013/251633/3/OPTIM_2017_05_26_accepted_version.pdf
 7. Miao, D., **Mollet, Y.**, Gyselinck, J., & Shen, J.-X. (2016). DC Voltage Control of a Wide-Speed-Range Permanent-Magnet Synchronous Generator System for More Electric Aircraft Applications Abstract session presented at . doi:10.1109/VPPC.2016.7791644
 8. **Mollet, Y.**, Barbierato, G., & Gyselinck, J. (2016, September 05). Finite-element and magnetic-equivalent-circuit modelling of brushed wound-field DC machines with cross-saturation *Electrical Machines (ICEM), 2016 XXII International Conference on*. IEEE.
https://dipot.ulb.ac.be/dspace/bitstream/2013/237161/3/ICEM2016_final_accepted_version_06sept16.pdf
 9. **Mollet, Y.**, Sarrazin, M., van der Auweraer, H., & Gyselinck, J. (2016, July 13). Investigation of the Influence of the Current-Hysteresis Bandwidth on Noise and Vibrations of Switched Reluctance Machines *Proceedings of the 23rd International Congress on Sound & Vibration* (23 ed., pp. 1-8). International Institute of Acoustics & Vibration.
https://dipot.ulb.ac.be/dspace/bitstream/2013/233349/3/ICSV23_MOLLET_Yves_2016_02_28.pdf
 10. Ciceo, S., **Mollet, Y.**, Sarrazin, M., Gyselinck, J., van der Auweraer, H., & Martis, C. (2016, June 01). Model-based design and testing for electric vehicle driveability analysis 2016 *IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC)*. IEEE. doi:10.1109/EEEIC.2016.7555884
https://dipot.ulb.ac.be/dspace/bitstream/2013/269412/3/Sebastian_Ciceo_EEEIC_Final_Paper_MOD.pdf
 11. **Mollet, Y.**, & Gyselinck, J. (2016). Rotor-Current and Position Estimator for Doubly-Fed Induction Generators: Application to Sensor-Fault Detection Abstract session presented at .
<https://dipot.ulb.ac.be/dspace/bitstream/2013/229070/3/PID4117929.pdf>
https://dipot.ulb.ac.be/dspace/bitstream/2013/229070/4/Energycon_accepted_version.pdf
 12. Miao, D., **Mollet, Y.**, Shen, J.-X., & Gyselinck, J. (2016, April 04). Direct voltage field-oriented control for permanent-magnet synchronous generator systems with active rectifier 2016 *IEEE International Energy Conference (ENERGYCON)*. IEEE. doi:10.1109/ENERGYCON.2016.7513939

13. Ge, Y., **Mollet, Y.**, Song, B., & Gyselinck, J. (2016, April 04). Detection and isolation of asymmetrical short-circuit faults in permanent-magnet synchronous machines 2016 *IEEE International Energy Conference (ENERGYCON)*. IEEE. doi:10.1109/ENERGYCON.2016.7514121

14. **Mollet, Y.**, Sarrazin, M., van der Auweraer, H., & Gyselinck, J. (2015). Experimental Noise and Vibration Analysis of Switched Reluctance Machines: Comparison of Soft and Hard Chopping in Transient Conditions Abstract session presented at (22-25 November 2015: Palermo).
[ULB https://dipot.ulb.ac.be/dspace/bitstream/2013/221319/3/127-Experimental-Noise-Mollet.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/221319/3/127-Experimental-Noise-Mollet.pdf)
[📄 https://dipot.ulb.ac.be/dspace/bitstream/2013/221319/4/ICRERA_2015_Full_2015_12_14_preprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/221319/4/ICRERA_2015_Full_2015_12_14_preprint.pdf)

15. Gonzalez, A., **Mollet, Y.**, Geury, T., Lopez Erauskin, R., & Gyselinck, J. (2015, October 19). Advanced Active Front-end Rectifier Control for Grid Emulator Application *Proceedings of the 5th Solar Integration Workshop*. Energynautics GmbH.
[📄 https://dipot.ulb.ac.be/dspace/bitstream/2013/220561/3/Gonzalez2015AdvancedActive.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/220561/3/Gonzalez2015AdvancedActive.pdf)

16. **Mollet, Y.**, & Gyselinck, J. (2014). Mechanical-State Estimator for Doubly-Fed Induction Generators - Application to Encoder-Fault Tolerance and Sensorless Control Abstract session presented at (02-05/09/2014: Berlin, Allemagne).
[📄 https://dipot.ulb.ac.be/dspace/bitstream/2013/171622/6/ICEM2014-accepted-paper.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/171622/6/ICEM2014-accepted-paper.pdf)

17. **Mollet, Y.**, & Gyselinck, J. (2014). Sensorless Control of DFIGs Based on Active and Reactive Power Computation for Encoder Fault Tolerance Abstract session presented at .
[📄 https://dipot.ulb.ac.be/dspace/bitstream/2013/171621/5/IET_accepted_paper_PEMD_2014.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/171621/5/IET_accepted_paper_PEMD_2014.pdf)

18. **Mollet, Y.**, Gyselinck, J., & Meinguet, F. (2013). Current Sensor Fault Detection and Isolation combining Model-Based and Signal-Based Algorithms in PMSG Drives Abstract session presented at .
[📄 https://dipot.ulb.ac.be/dspace/bitstream/2013/149104/1/0342-epe2013-full-16325528.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/149104/1/0342-epe2013-full-16325528.pdf)

19. Bronchart, F., **Mollet, Y.**, & Gyselinck, J. (2013). LCL Filters for a Grid Emulator Application – Comparative Study of Active Damping Techniques Abstract session presented at IECON 2013(39: 2013-11-10: Vienna).
[📄 https://dipot.ulb.ac.be/dspace/bitstream/2013/151671/1/bare_conf.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/151671/1/bare_conf.pdf)