



## Damien Guilbert



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**Damien Guilbert** was born, in Paris, in 1987. He obtained the M.Sc. degree in electrical engineering and control systems and the PhD degree in electrical engineering from the University of Technology of Belfort-Montbéliard (UTBM), France, in 2011 and 2014 respectively. Between September 2016 and August 2023, he was associate professor in electrical engineering at Université de Lorraine and a permanent member of the Group of Research in Electrical Engineering of Nancy (GREEN). In June 2022, he obtained his HDR (habilitation à diriger des recherches) degree in electrical engineering at Université de Lorraine. Since September 2023, he has been full professor at Université Le Havre Normandie and a permanent member of Group of Research in Electrotechnics and Automatic of Le Havre (GREAH).

His main research interests are linked to the:

- Characterization, modeling, emulation, and aging of electrolyzer (alkaline, PEM, AEM).
- Power electronics and control for electrolyzer applications.
- Hydrogen for transportation applications (automotive, ships).
- Energy management of multi-source systems considering intermittent energy sources and hydrogen technologies (electrolyzer, storage, fuel cell)

He has published 50 international journal papers and 30 international conferences papers. He was the supervisor of three PhD thesis, and he is currently supervising two PhD students. He has also been involved with several international research projects funded by different institutions and organizations. He has given more than 20 keynote speeches and seminars about his research activities all over the world (Algeria, China, Colombia, Denmark, Finland, Italy, Mexico, Norway, Thailand). At the Université Le Havre Normandie, he teaches electrotechnics, intermittent renewable energy sources and their integration into the power grid, hydrogen technologies (electrolyzer, storage, fuel cell), energy storage devices (batteries, supercapacitors, lithium-ion capacitors, flywheels), and the energy management of multi-source systems for embedded and stationary applications, addressed both for bachelor and master students.

### **Additional Information:**

- ICREPQ-International Scientific Committee Member.
- Guest editors in MDPI journals (Clean Technologies, Electronics, Membrane, Sustainability) and International Journal of Sustainable Energy.