

Special Issue

Grid Connected Modular Multilevel Converters (MMC) and New Applications

Message from the Guest Editors

Modular multilevel converters (MMC) are a sophisticated technology that was originally designed for very high-power applications. Over time, the scientific community has contributed with new solutions to solve some of its weak points, such as reducing the circulating currents, balancing the capacitor voltages, reducing the computing burden of the control, etc. Further, new control techniques have been developed for MMC, for example, to make the converter work as a current source, or others based on model predictive control, either applied to the internal operation or to the operation of the grid connection. Lately, medium power versions of MMCs are being applied to wind generation, STATCOMs, etc. In addition, new topologies have been investigated to reduce the number of semiconductors or to keep the MMC working under certain types of internal and external faults. Any contribution within the aforementioned topics, and many other related ones, is welcome to this special issue.

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Deadline for manuscript submissions

closed (31 December 2021)



Energies

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Impact Factor 3.9
CiteScore 8.3



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