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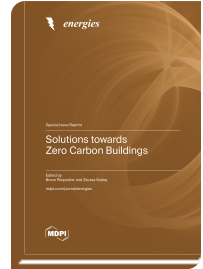


*Special Issue Reprint*

## **Solutions towards Zero Carbon Buildings**

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According to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (contribution of WG III on mitigation), historical cumulative net CO<sub>2</sub> emissions between 1850 and 2019 amount to about four-fifths of the total carbon budget for a 50% probability of limiting global warming to 1.5°C. Progressing towards net-zero GHG emissions is therefore necessary, both in new constructions and by retrofitting existing buildings. This Special Issue deals with novel solutions for reaching this objective and, particularly, new zero-carbon building concepts and low-carbon construction products, e.g., bio-based materials; low-carbon equipment for heating, cooling, hot-water production, ventilation, and lighting; integration of renewable energy systems in buildings; energy-efficient building management and control systems; and applications of IoT and/or AI in buildings.



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