# Special Issue

# The Rise of Mobile Solar: Trends, Applications, and Future Perspectives

## Message from the Guest Editor

As the pressing need to reduce greenhouse gas emissions becomes increasingly critical, the transportation sector stands at a pivotal crossroads, poised to embrace revolutionary technological advancements. One of the most promising breakthroughs is the integration of photovoltaic technologies across a wide array of transportation modes—ranging from vehicles and trucks to buses, ships, trains, and even stratospheric drones. Effective energy management is also crucial to our success. By seamlessly integrating internal combustion engines, optimizing charging and discharging frequencies, and designing lightweight structures that harness solar resources, we can make greater strides towards a greener future. This Special Issue highlights these essential challenges and showcases next-generation photovoltaics. By learning from the lessons of early solar mobility implementations, we can not only propel our transportation systems into a realm of sustainability but also lead the charge in combating climate change. In now spotlighting these innovations, we embrace the clean transportation future we envision. Together, we can drive this transformative change forward.

## Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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