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Smart Mobility and Energy Transitions 2021

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Message from the Guest Editor

Dear colleagues,

Cities have increased their goals of becoming smart, air pollution-free, carbon neutral, and energy self-sufficient. Citizens' mobility plays a major role in the cities' metabolisms, consuming more than 30% of the energy and generating heat, CO₂, and mostly PM_{2.5} and NO_x regulated emissions.

Solar energy and biofuels, from urban metabolism waste, together with public and shared transportation, could pave the way towards a more sustainable mobility system that helps to ensure smart city targets.

Papers are welcomed in the following areas:

- Plug-in hybrid and pure electric bus systems simulation and monitoring of PM_{2.5}, NO_x, NH₃, and black carbon;
- Ethanol hybrid ED95 bus and flex-fuel vehicles simulation and monitoring of PM_{2.5}, NO_x, and NH₃, and black carbon;
- Shared mobility systems and evaluation of their success in suppressing conventional private modes;
- Low-cost sensor networks for traffic related air quality monitoring and historical trends;
- Biorefinery systems for sustainable transportation (biopolymers and biofuels from waste resources);
- Solar powered charging stations for e-mobility;
- Well-to-wheels of alternative transport systems.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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