

Special Issue

Power Grids' Future Perspective in the Mainstream E-mobility Era and under the Umbrella of Sustainable Development

Message from the Guest Editors

This SI welcomes original research and review papers on, but not limited to, the following themes :

1. Optimizations and energy management towards sustainable power grids; 2. Integrating renewable energy sources into power systems for a sustainable environment; 3. Optimal operation and control of power distribution networks in presence of EVs; 4.

Environmental impacts of transportation electrification;

5. Evaluation methods for electrified transportation systems; 6. Electric vehicle charging infrastructure planning; 7. Urban transport electrification and energy consumption; 8. New transport systems concepts and future perspectives; 9. Electric vehicles and the environment; 10. Theoretical developments in the planning and operation of sustainable EVs; 11. Energy storage devices for sustainable EVs' demand; 12. Energy infrastructure for electrical transportation; 13. Modeling and analysis of modern and future sustainable electric vehicles energy systems; 14. Smart energy management in electric vehicles for energy saving; 15. Energy savings through optimized EV charging in bidirectional energy flow V2G and G2V.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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