



Renewable Energy, Smart Grid Technologies and Sustainable Energy Management: Challenges and Opportunities

Guest Editor:

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For this Special Issue, original research articles and reviews are welcome. Research areas may include but are not limited to the following:

- Artificial intelligence, machine learning, and optimization;
- Cybersecurity;
- Electric transportation systems;
- Energy management systems for EVs and renewable-based microgrids;
- Environmentally friendly processes to extract lithium;
- Green technologies;
- Internet of things (IoT) and the energy industry;
- The opportunities and challenges associated with high-voltage direct current (HVDC) transmission systems supporting renewable energy integration;
- Lithium-ion battery energy storage solutions for grid-scale projects;
- Power systems (and their operation, planning, control, optimization, and security);
- Power electronics applications in renewable energy systems;
- Renewable energy and smart grid technologies;
- The role of renewable energy technologies in environmental protection;
- Virtual power plants for a more resilient and sustainable grid.





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