Special Issue

A New Approach to Renewable Energy Sources to Increase the Efficiency of Electric Vehicles

Message from the Guest Editors

The production and sale of electric vehicles declined in recent years, particularly in Europe. This effect comes as a surprise to the automotive industry. Several underlying factors have caused this effect, including a reduction in subsidies for the purchase of electric vehicles, the long battery-charging time (compared to the refueling time in a car with an internal combustion engine) and the high cost of new batteries. After several years of use, the range of electric vehicles is significantly shortened due to battery wear. In addition, solar power plants provide the highest electricity during the operating hours of cars, and the solutions proposed so far are unsatisfactory. The further development of the electric vehicle market requires the use of new renewable energy sources that facilitate an increase the efficiency of electric vehicles.

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