

Special Issue

Advanced Light-Weighting for Future Electric Vehicles

Message from the Guest Editors

The World Economic Forum is encouraging companies to raise their ambitions for climate actions in order to reduce emissions for road vehicles, as they are one of the greatest contributors to CO₂ and NO_x emissions. The recent developments in battery technology has enhanced the performance of electric vehicles (EVs), providing increased power, range and charge rate. The scope of the Special Issue is to gather contributions related to the technological challenges in the development of lightweight EV systems. The topics of relevance are development and testing of innovative material, design and simulation with advanced topological optimisation, simulation and testing of joints with similar and dissimilar materials, novel joining solutions, in-process inspection and control, structural integrity of joints, fatigue performance of innovative metallic and composites components, smart manufacturing for production up-scaling of EV systems, composites hybridization, additive manufacturing, natural fibres composites and crashworthiness of EVs, design for recycling.

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