



Lightweight aluminium alloys for sustainable future

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Lightweight aluminium alloys for sustainable future

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Increased efficiency has become a key issue for technology development in the 21st century, especially in the transportation sector in order to reduce fuel consumption, fulfil further legislation demands, reduce greenhouse gases and maximize overall environmental protection. Light weight alternative materials are key aspects of strategic research in this area and sustainability. Aluminium and its alloys have great potential to achieve these objectives due their light weight and the ability to recycle. This talk will provide an overview of technological importance of aluminium alloys today, various applications, recycling issues, surface modification issues, future challenges, and an overview of focus of our research in this direction.