

FEMS EUROMAT23

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FEMS EUROMAT is the most important international congress in materials science and technology in Europe. It continues a successful congress series promoting the transfer of knowledge and the exchange of experience between academia and industry. **Extended submission deadline: 15 March 2023**

Area H: Materials for Circularity and Sustainability

H06: Processing and Properties of Recovered Metals and Alloys from Contaminated Recycling Fractions

In the future, increasingly important sources of recyclable materials can be expected in the field of electromobility. E-car bodies and battery boxes are primarily made of structural materials such as iron and aluminum-based alloys in order to significantly reduce vehicle weight and, thus, increase the vehicle's range. In addition, metals are also used as functional materials in the battery cell as electrode material and are available for recycling as well.

However, when recycling an E-car at the end of its product life, as in many other areas, it is virtually impossible to separate the various alloys used by type, which is why the resulting recyclate contains various alloying elements and impurities which, if not regenerated with primary alloys, would increase contamination in the secondary material cycle after each cycle steadily.

This is precisely the thematic focus of the symposium, which calls for submissions that address research into new approaches to the metallurgy and processing of contaminated recycled fractions, taking into account the properties of products made from them.

Symposium Organizer



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