

MSE 2024

24 - 26 Sep 2024 (Darmstadt)

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I: Circular Materials

In a world grappling with the consequences of increased material demand, the discourse on circular materials has never been more critical. This topic delves deeply into the technological strides being made in promoting the circular use of materials, encompassing recycling, remanufacturing, and reuse strategies. From the sharp surge in material usage over the years to the potential forecast for 2050, the sessions offer an intensive overview, dissecting the challenges and unveiling the opportunities that lie ahead. Join us as we traverse the journey of various material classes, exploring the intricate nuances of each, and fostering a future of sustainable material utilization.

Topic coordinator



Prof. Dr. Hesham Ahmed
Luleå University of Technology



Prof. Dr. Gesa Beck
SRH Berlin University Applied Science



Dr. Moritz to Baben
GTT-Technologies

I01: Circular Materials and Materials Circularity for a Sustainable Future: Challenges & Opportunities - General Symposium Topic I

Prof. Hesham Ahmed (Luleå University of Technology), Prof. Dr. Gesa Beck (SRH Berlin University Applied Science), Dr. Carsten Gellermann (Fraunhofer Institute for Silicate Research ISC and Fraunhofer Network Nanotechnology FNT), Dr. Moritz to Baben (GTT-Technologies)

I02: Innovations in Sustainable Tribology: New Approaches in Surface Functionalization for Electrical and Mechanical Contacts

Prof. Dr. Daniele Dini (Imperial College London), Prof. Dr. Carsten Gachot (TU Wien), Dr.-Ing. Maria Agustina Guitar (Saarland University), Prof. Dr. Andreas Rosenkranz (Universidad de Chile)

I03: Innovative Approaches to Sustainable Materials Recycling: Advancing Circular Economy Principles

Prof. Dr.-Ing. Ilya Okulov (Leibniz Institute for Materials Engineering - IWT), Dr. Iliya Radulov (Technische Universität Darmstadt)

I04: Sustainable Production and Processing of Metals

Dr. Alexander Roald Michael Gramlich (RWTH Aachen University), Dr.-Ing. Yan Ma (Max-Planck-Institut für Eisenforschung GmbH), Prof. Dr.-Ing. Axel von Hehl (University of Siegen)

