

EUROMAT 2021

EUROPEAN CONGRESS AND EXHIBITION
ON ADVANCED MATERIALS AND PROCESSES

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12. - 16. SEPTEMBER 2021

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Area H

Symposium H3 Materials for a greener Economy

Title		
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Abstract		
<p>One of the EU's priorities is to promote the transition to a greener economy, where energy expenditure, use of natural resources and recycling processes are key factors to give rise to a sustainable technological society. The change towards this model is a basic pillar in most national and European research programs, in particular in the field of materials. Research and development in new materials will provide of strategies to improve several topics in this framework, for instance, materials with a high capacity for energy storage, photocatalytic materials able to degrade the pollutants from air and water, materials able to detect different deleterious substances or new physical and chemical processes devoted to recycling of waste. Fighting against the global warming requires the development of new and more efficient materials to produce energy in a cleaner way, reducing the CO₂ emissions.</p> <p>This symposium is intended to cover in a multidisciplinary way the different approaches present in the actual research to improve or design new materials and processes of interest for a wide range of applications dedicated to a more efficient use of raw materials, a lower energy expenditure and the recycling of the materials and products manufactured with them to kept in the life cycle as long as possible.</p> <p>The targeted topics include fundamental as well as applied aspects on material design, synthesis, properties of interest, application and recycling of materials . To mention a few topics, but not limited to:</p> <p>Sensing, Catalysis, CO₂ capture, Nanodevices, Batteries, Supercapacitors, Pollutant degradation, Metal Oxide based devices, Solar cells, Thermoelectrics, Lithium ion batteries, and Hydrogen storage systems, Medical applications, new routes to Waste management...</p>		

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