

EUROMAT 2017/ Symposia Structure/Area A

A.9	Title: Functional Membranes		
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Summary			
<p>Membrane technology is a key technology for a sustainable society, as it enables separation and purification of many substances which are relevant for human beings, such as water, air and many chemicals. Scope of the Symposium is to bring together material scientists, chemists, physicists and engineers working on the development of new tailored polymer, inorganic and hybrid membranes for all sorts of areas such as filtration, distillation, desalination and biological separations, including energy applications. Also new developments in catalytically active membranes and membranes with adsorbing functionalities are within the scope of this symposium. Besides membrane production and characteristics material development and novel characterization techniques will be topics of this symposium as well. During the last decade material development for membrane applications has significantly increased. Examples of new developments are so-called thermally rearranged polymers, polymers of intrinsic microporosity, porous organic frameworks and metal organic frame works, or asymmetric perovskite membranes showing promising properties in gas separations, or isoporous block copolymer membranes for ultrafiltration. These examples show the strong potential of synthesis of new materials and their processing for improved separations.</p>			