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30

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Area A

Symposium A2

Synthesis and Applications of Functional Materials		
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Abstract		
<p>Functional materials offer innovative solutions for many technological applications: organic electronics, smart devices for biotechnology, microfluidics, membrane technology, sensors and drug delivery systems, to name a few. Many of these applications require the processing of materials into thin films (below 1 μm in thickness) or thick films. The development of functional materials, engineered to achieve all the desired properties, requires advanced growth techniques. The development of dry growth methods – mostly based on vacuum- aims to complement and enlarge the applicability of functional films to fields where the presence of solvent is detrimental.</p> <p>The symposium focuses on the growth and applications of functional materials obtained either from the vapor phase or from liquid-based synthesis. The presentation of new materials and functions will be especially acknowledged.</p> <p>Contributions should include but are not limited to:</p> <ul style="list-style-type: none">• Advanced growth methods for thin film depositions• Synthesis/processing of functional materials• Control and advanced characterization of material properties• Implementation of functional materials into efficient devices• Modeling of Advanced Materials and Machine Learning approaches• Heterogeneous materials: complex, multi-component, multi-phase, composites, hybrid and gradient materials		