

Chemistry - A European Journal

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### Special issue in *Chemistry – A European Journal*

#### Low-temperature solution approaches to oxide functional nanoscale materials

#### Message from the Guest editors

This special issue is focused on low- or even room-temperature solution synthesis and processing methods of oxide functional nanoscale materials (thin films and nanostructures). The benefits resulting from using solution synthesis and decreasing the processing temperature span from (i) minimizing the environmental impact (carbon footprint and emissions; CO<sub>2</sub> and other hazardous volatiles produced at high temperatures) to (ii) reducing the overall costs of the fabrication process. In addition, the research on functional materials synthesized by low-temperature solution methods has been regarded as a key objective in this technology. This is because the low-temperature solution fabrication of these materials offers a unique opportunity for their incorporation in technologically disruptive areas like flexible electronics, energy conversion and storage, environment, catalysis or biomedicine. Nanostructured oxide functional materials are the core components of the high-performance devices with the multiple functions demanded in these fields.

The issue is structured in fifteen Reviews and Minireviews from outstanding research groups in the field that have been invited by the guest editors, along with original research articles. The aim of the issue is to serve as a launchpad for different communities, such as materials science & engineering, chemistry and physics communities, and industrial and academic communities, entering the topic, to summarize recent achievements in the field of low-temperature solution methods for the preparation of oxide functional nanoscale materials, to show novel holistic and multidisciplinary characterization approaches to elucidate synthesis mechanisms and material functionality, and to present prospects for applications of these materials in emerging technologies.

#### Message from the Editor-in-Chief

*Chemistry—A European Journal*, now in its 25th volume, is published on behalf of *ChemPubSoc Europe*, a group of 16 national chemical societies from within Europe. It provides an excellent platform for increasing the visibility of European chemistry, as well as for featuring the best research from authors from around the world. As such, it gives me great pleasure that *Chemistry—A European Journal* will host this Special Issue on Low-temperature solution approaches to oxide functional nanoscale materials.

Articles assigned to the Special Issue can go online as "Accepted Articles" immediately after acceptance and will be highlighted on the journal homepage under the Special Issues section. Furthermore, it will be promoted on the news portal *ChemistryViews*, at various conferences, and on social media outlets. The editorial team is looking forward to your submissions.