Special Issue

Dielectric Materials: Challenges and Prospects

Message from the Guest Editor

Dielectrics or dielectric materials are non-conductive materials which can be polarized by an exerted electric field. The role of dielectrics in emerging technologies is crucial, since the current and potential applications of dielectrics include, but are not limited to, integrated capacitors, solar cells, batteries, to name but a few. Moreover, in the era of nanomaterials, new perspectives are offered concerning dielectrics. Studying the interactions between polar molecules or groups, induced dipoles, and interfacial phenomena could lead to controlling and tailoring the electric performance of nanodielectrics, thus creating “personalized” materials for each application. The challenges and prospects of research in the field of dielectrics appear to be wide open and require, but also attract, scientific attention.

This Special Issue on “Dielectric Materials: Challenges and Prospects” welcomes original research and reviews on experimental or theoretical/computational studies of all kind of dielectrics.

Guest Editor

Prof. Dr. Georgios C. Psarras

Smart Materials and Nanodielectrics Laboratory, Department of Materials Science, University of Patras, 26504 Patras, Greece

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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