

PCCP Themed Issue "Functional Materials"

- **Focus topic** of the 118th General Assembly of the German Bunsen Society for Physical Chemistry ("Bunsentagung"), Jena, Germany, 30th May – 2nd June 2019
- **Guest editors:** Benjamin Dietzek (Jena University), Dr Leticia Gonzalez (University of Vienna), Christina Roth (Free University of Berlin), Sebastian Schlücker (University of Duisburg-Essen), Andrey Turchanin (Jena University), Maria Wächtler (Jena University)

PCCP will publish a forthcoming high-profile themed issue entitled "Functional Materials". This will be the official issue of the international Bunsentagung 2019 on the same theme organised by the Deutsche Bunsen-Gesellschaft (DBG), which takes place 30th May – 2nd June 2019 in Jena, Germany.

Functional materials form the core of many modern societies, e.g., energy conversion and storage, heterogeneous catalysis, drug delivery, implants, electronic and photonic devices. The challenges in the design and characterization of modern materials are diverse and require joint research efforts across various scientific boundaries or disciplines. The most challenging tasks range from the elucidation of the growth mechanisms of materials, the development of novel experimental characterization tools and theoretical methods for the atomistic description of materials and material properties for tailoring the interaction of materials with their environment, as well as device engineering. Due to this interdisciplinary approach, Physical Chemistry is a key scientific discipline for successful achievement of these tasks. With this background, we want to devote this focused issue of *PCCP* to research areas such as (i) Materials for Energy Conversion and Storage, (ii) Materials for Life Sciences, and (iii) 2D-Materials, Surfaces and Interfaces for Implementations in Nanotechnology. In this broad research spectrum, we plan to put particular emphasis on the tailored materials, materials' characterization and modelling for implementations in photo- and electrocatalysis, solar and fuel cells, batteries and supercapacitors; materials for implants, drug delivery, tissue engineering and biosensors; on recent progress and challenges associated with the integration of novel materials into functional devices and the development of novel experimental characterization tools and theoretical methods for the atomistic description of functional materials.

We invite you to submit a manuscript of original research with a focus on the above topics, in line with the scope and standards of *PCCP*. **Deadline for submissions: 18th January 2019.**

All submissions will be subject to initial assessment and rigorous peer review to meet the high standards of *PCCP*. To be suitable for publication in *PCCP*, articles must include significant new innovation and/or insight into physical chemistry. When you submit your article, please indicate that it is for the themed issue. Further details about *PCCP* can be found at www.rsc.org/pccp.

We hope that you will be able to contribute to this exciting themed issue of the international Bunsentagung 2019.

With our best wishes
Dr Charlotte Marshall
Deputy Editor

