

New Trends in Functional Materials and Devices

Guest Editors:

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Deadline for manuscript
submissions:
closed (20 January 2024)

Message from the Guest Editors

Dear Colleagues,

Functional materials are of high interest due to their exploitation in many advanced areas: energy storage and conversion, healthcare, sensors and actuators, modern electronics, photonics, textile, wearable electronics, etc. The issue covers all types of functional materials with electrical, magnetic, ferroic, multiferroic, optical, sensing, piezoelectric, superconducting, catalytic, photocatalytic, thermoelectric, phase transforming, shape memory, and memristor properties and includes but is not limited to the following topics:

Thin and thick films, nanostructures, nanocomposites, nanostructured coating systems;

High surface area systems: colloids, nanoparticles, large interfaces;

Surface and interface processes;

Design and simulation models;

Device developments: sensors, biosensors, actuators, memristors, solar cells, fuel cells, photonic, electronic, spintronic devices, etc.

We invite participants in the 13th International Conference on Physics of Advanced Materials, Sant Feliu de Guixols, September 24-30, 2021, to send their manuscript to this Special Issue.



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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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