# Special Issue

# Properties and Applications of Film Capacitor

**Message from the Guest Editor**

Modern technological trends bring an extensive use of the concept of capacitors. Apart from their direct use as a circuit element in electronics, metal–dielectric–metal structures are found in applications based on piezo- and ferroelectrics, hot electron sources, nonvolatile memories, memristive devices, batteries and supercapacitors, etc.

Modern technology has also given us films, and today, the number of applications for thin and thick films surpasses that for bulk materials. The major player here is the electronic industry, but medical applications are a close second, being bridged by plastic electronics. Combining the concept of capacitors with that of a film was a marvelous idea that has been in use since the beginning of transistors. Our daily life as we know it, indeed, would not be possible without film capacitors.

This Special Issue of Nanomaterials will focus on "Properties and Applications of Film Capacitor". The subject will cover many different aspects and modern applications of capacitors. Thus, please allow me to welcome your contributions from various fields.


**Guest Editor**

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**Deadline for manuscript submissions**

closed (28 February 2023)


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# About the Journal

## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

## Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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