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Nonlinear Nano-Optics

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Message from the Guest Editors

Dear Colleagues,

We would like to turn your attention to the forthcoming Special Issue dedicated to nonlinear nano-optics.

Nonlinear nano-optics is linked to symmetry properties of materials arising from molecular or nanostructure origin. In this Special Issue of *Symmetry*, we will focus on the importance of symmetry, or the lack of it, in classical and quantum areas of nonlinear nano-optics, including nano- and biophotonics, as well as plasmonics, from fundamental and applied perspectives.

Special attention will also be paid to chirality and its consequences for the nonlinear optical properties of molecules and nanostructures.

This Special Issue will cover the latest groundbreaking ideas and cutting-edge technologies in the field, allowing us to address new fundamental challenges and define novel routes for applications of nonlinear nano-optics in classical and quantum science.



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Special Issue



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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