



Nonlinear Nano-Optics

Guest Editors:

Prof. Dr. Thierry Verbiest

KU Leuven, Molecular Imaging
and Photonics, 3000 Leuven,
Belgium

Prof. Dr. Branko Kolaric

Micro- and Nanophotonic
Materials Group, University of
Mons, 7000 Mons, Belgium

Dr. Sébastien R. Mouchet

Department of Physics, University
of Exeter, Stocker Rd, Exeter EX4
4PY, UK

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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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Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

ICREA, P. Lluis Companys 23,
08010 Barcelona and Institute of
Space Sciences (IEEC-CSIC), C.
Can Magrans s/n, 08193
Barcelona, Spain

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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Contact Us

Symmetry
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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