



Symmetry in Nonlinear Optics

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Message from the Guest Editor

Dear Colleagues,

Nonlinear optics is currently a promising and growing research field due to its many applications, ranging from laser science to quantum technologies. Though nonlinear optical effects have been known for a long time (e.g., the Kerr effect was discovered in 1875 and the Pockels effect in 1893), the starting of the field is associated with the discovery of the second harmonic generation phenomenon in 1961, just one year after the first laser was switched on. Ever since, the field has diversified to into a number of important and interesting new phenomena, such as harmonic generation, self-focusing, plasmons, or parametric down conversion, which are currently very active research fields on their own.

The underlying idea behind this Special Issue of *Symmetry* is to feature articles and reviews that are of tremendous interest to scientists who study linear and nonlinear optics, all oriented around the common leitmotiv of symmetry. ...

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Guest Editor





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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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