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Advances in Nonlinear Optics

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editor

The current Issue covers all aspects of nonlinear optics, including new phenomena, novel devices, advanced materials, and applications. Papers are welcome that describe advances in any aspect of nonlinear optics and its applications particularly in, but not limited to, the following areas:

- Ultrafast all-optical processing;
- Nonlinear waveguides and optical fibers;
- Novel nonlinear materials;
- Nonlinear effects in nanostructures: plasmonics and metamaterials;
- Frequency combs;
- Nonlinear effects in microresonators.
- Terahertz/microwave photonics;
- Nonlinear imaging;
- Optical supercontinuum;
- Soliton and nonlinear localization effects;
- Nonlinear propagation and filamentation;
- Ultrafast dynamics and instabilities;
- Nonlinear quantum effects;
- Nonlinear optics for quantum information;
- Nonlinear topological, non-Hermitian systems;
- Attosecond and extreme nonlinear optics.