PHOTONICS AND NANOSTRUCTURES -
FUNDAMENTALS AND APPLICATIONS

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DESCRIPTION

The Journal features mainly original research work in experiment, theory and applications related to nanophotonic structures. Papers suitable for publication significantly advance our understanding of nanophotonic materials and structures and cover topics such as:

- Metamaterials and metasurfaces;
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- Investigation and characterization of photonic crystal properties such as optical nonlinearities, photonic band gap effects, spontaneous emission;
- Fabrication of nanophotonic structures and devices using various methods, including lithography, self-assembly, holography, etc.;
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- Optics of nanostructured 2D materials;
- Random and complex structured optical media;
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- High-impedance surfaces;
- Metamaterials for antenna and circuit technology;
- Metamaterial-based devices;
- Acoustic and elastic metamaterials;
- Photonic crystal fibers and “holey” fibers;
- Integration of photonic crystals;
- Micro-optical-electro-mechanical-systems (MOEMS);
- Nanostructured optical microcavities and photonic “dots”;
- Inverse design and machine-learning-driven design of nanophotonic structures;
- Novel approaches to micro- and nanophotonics;
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