

## Special Issue

# Soft Photonic Crystals and Metamaterials

### Message from the Guest Editors

Soft matters include polymers, liquid crystals, colloids, biological tissues, and many smart materials. Weak molecular interactions make them sensitive to tiny mechanical, thermal, electric, optical, and other external stimuli. Photonic applications often require soft materials with significant or, in some cases, extreme optical dispersion, nonlinear and anisotropic properties. Optical response can be structurally amplified in two fairly distinct scales that are wavelength-comparable periods of *soft photonic crystals* and subwavelength-graded *soft photonic metamaterials*. This Special Issue is open to manuscripts concerning optical, topological, and interface-science phenomena and applications involving “Soft Photonic Crystals and Metamaterials” in areas that include but are not limited to:

- All-dielectric high-quality resonances, interface, and defect light localization, mode coupling and avoided crossing;
- Chirality and angular momentum, structured light and photonic transport protection;
- Photovoltaic and photosynthetic light harvesting;
- Soft photonic materials, structures, circuitry and devices.

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### Guest Editors

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### Deadline for manuscript submissions

closed (10 September 2022)



## Materials

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CiteScore 7.0  
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### Message from the Editorial Board

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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