# Special Issue

# Novel Carbon Nitride Nanostructures

### Message from the Guest Editors

Carbon nitrides ranging from N-doped carbons to materials with high N:C ratios give rise to 2D- to 3D-nanostructures with important functional properties. They are being promoted and developed for applications ranging from catalysis and catalyst supports to luminescence and photocatalysis, and as hosts for gas and molecular sequestration. Many N-rich materials are amorphous and difficult to characterise structurally or compositionally, so that establishing their functionality in relation to their structures and chemical nature can be challenging. Materials with enhanced properties can be created by chemically modifying the carbon nitride layers or frameworks. Active areas of research include the dissolution and re-deposition of layered to polymeric materials, and designing synthesis procedures to introduce porosity, with control over cavity length-scale, distribution and access. This Special Issue of *Nanomaterials* will invite and consider papers on all aspects of the synthesis, structural investigation, functional properties, characterisation and assembly of carbon nitride nanostructures.

### Guest Editors


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### Deadline for manuscript submissions

closed (30 April 2020)


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# About the Journal

## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

## Editor-in-Chief

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