

## Special Issue

# Development and Research of Carbon-Based Nanomaterials

### Message from the Guest Editor

Carbon-based nanomaterials start from the discovery of the zero-dimensional Buckyball in 1985; the Nobel Prize winning allotrope of carbon opened up an era of nanotechnology. With the progress of fabrication technology, the 1D carbon nanotubes and 2D graphene were then synthesized in 1991 and 1998. These carbon-based nanomaterials can have a remarkable range of morphologies, which has provided the opportunity to use these nanomaterials in the construction of a new type of microelectronic device. Moreover, using the property of the high electric conductivity of graphene, a new class of the conductive ink was then produced by conjoining graphene with polymer and then direct ink jet printing the prototype electric circuit on paper. These kind of new ideas provide great opportunities for research to functionalize, dope, and create heterostructures on more kinds of carbon-based nanomaterials by developing innovations of carbon nanoribbon, nanocones, and nanohorns hybrid structures and resulting in dramatically new scientific and engineering front end research. It is my pleasure to invite you to submit a manuscript to this Special Issue.

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### Guest Editor

Prof. Jeff T. H. Tsai

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### Deadline for manuscript submissions

closed (20 April 2024)



## Materials

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