



# Chemical Synthesis and Applications of Graphene and Carbon Materials

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## Chemical Synthesis and Applications of Graphene and Carbon Materials

This ready reference and handbook is unique in its focus on synthesis and the application of graphene and other carbon materials with an emphasis on chemistry aspects. To this extent, it deals with top-down and bottom-up approaches across the different length scales for graphene from polycyclic aromatic hydrocarbons to graphene nanoribbons and graphene sheets, as well as carbon materials from quantum dots, nanostructured particles, and fibers, right up to tubes, bulk structures, and much more besides. In so doing, it presents the best synthetic methods: pyrolysis, chemical vapor deposition, templating and surface-mediated synthesis, self-assembly, surface-grafting and modification.

Edited by two excellent, experienced and highly renowned editors, both of whom are directors of Max Planck Institutes.

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