

Section Title: **Carbon-Based Nanomaterials for 3D Printing**

Summary:

The section "Carbon-Based Nanomaterials for 3D Printing" is a comprehensive platform focusing on the latest advancements and applications of carbon-based nanomaterials used in 3D printing and additive manufacturing. This section explores the intersection of nanotechnology and additive manufacturing, presenting a curated collection of research articles, reviews, and perspectives. Covering various carbon-based nanomaterials like carbon nanotubes, graphene, and carbon nanofibers, the section investigates their integration into 3D printing processes. Contributions span from providing in-depth insights into materials for 3D printing enhanced with these nanomaterials to investigating various printing methods, evaluating structural properties, examining their applications across diverse industries, and more. The section aims to foster interdisciplinary discussions among researchers, engineers, and practitioners, providing valuable insights into developments, challenges, and future prospects of using carbon-based nanomaterials in 3D printing across industries. This carefully curated section combines scientific rigor with practical applications, serving as a pivotal resource for academics, industry professionals, and enthusiasts interested in the innovative world of 3D printing with carbon-based nanomaterials.

Keywords: 3D Printing Technology; Additive Manufacturing; Nanomaterial Integration; Carbon Nanotubes; Graphene; Carbon Nanofibers; Innovation in 3D Printing