



nanomaterials



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Synthesis and Application of Biomass-Derived Carbon-Based Nanomaterials

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Edited by
Dapeng Wu

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The reclamation of biomass wastes from different industries represents a clean and sustainable way to make full use of bio-resources and avoid potential environmental risks due to the improper disposal of biomasses. Among different forms of reutilizations, the rational conversion of biomasses into value-add, carbon-based nanomaterials can potentially be applied in the fields of environmental remediation, energy conversion and storage, and medical care, which arouses great research interests from both the scientific and industrial communities. The unique compositions and tissue structures of biomasses grant these carbon-based nanomaterials their outstanding features, such as high surface area, well-developed porous texture, and active heteroatom doping sites. Meanwhile, the abundant resources of biomasses further endow these materials with the feasibility for potential large-scale application. Recently, many research efforts have been devoted to preparing carbon-based materials with various strategies to regulate their thermal, adsorptive, and catalytic performances to promote their potential applications. This collection, entitled “Synthesis and Application of Biomass-Derived Carbon-Based Nanomaterials”, consists of eight original articles and two reviews recently published in *Nanomaterials*; the aim is to highlight research progress on current issues related to photothermal conversion, environmental protection, clean energy storage, and catalytic application.



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