

## Special issue on

# Research progress of bio-based polymer materials

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## CALL FOR PAPERS

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Submission Deadline: August 26, 2023

Publication Date: Jan 2024

This Issue is now open for submissions. Manuscripts should be submitted online at [aber.apacsci.com](http://aber.apacsci.com) by registering and logging in to this website. Then you can submit the manuscripts.

Papers are published upon acceptance, regardless of the Special Issue publication date.

In our journal *Ecomaterials*, a special issue is calling for papers about bio-based polymer materials.

In recent years, environmental and economic concerns have driven the development of bio-based polymers and materials. These efforts have mainly involved the direct production of bio-based polymers and the production of bio-based monomers for further polymerization by chemical or biotechnological routes.

A bio-based polymer is defined as a material consisting of at least a portion of the polymer produced from renewable raw materials, also called bio-based resins are obtained from renewable resources (algae, bacteria, microorganisms, plants, etc.). For example, bio-based polymers may be produced from corn or sugarcane. The remaining portion of the polymers may be from fossil-fuel-based carbon. There are many different markets available for bio-based polymers such as polylactic acid, poly L-lactide, poly-hydroxybutyrate, polyhydroxyalkanoates (PHAs), polyamide, polypropylene (PP) obtained from bio-based ethylene obtained by converting ethanol, polyethylene terephthalate and all other thermoplastic materials. There are also other bio-based resins partially obtained (polyurethanes with bio-based diols and bio-based epoxy epichlorohydrin from glycerol) that are thermosetting. Bio-based polymers are mostly used in eco-materials applications.

This issue will include research into **the design, characterization, production, synthesis methods and application of bio-based polymers**. Potential topics include but are not limited to the ones mentioned above. We sincerely welcome the latest articles from scholars all over the world.