Antioxidant Polymers Synthesis Properties And Applications

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3. Pharmacological Properties of Goji Berries. Goji berries have become popular over the years due to its public acceptance as a “superfood” with highly advantageous antioxidant and nutritive properties. A superfood is a “nutrient-rich” food considered to be especially beneficial for health or well-being.

Goji Berries as a Potential Natural Antioxidant Medicine: An Insight ...
The advantage of the chemical synthesis of nanoparticles are the ease of production, low cost, and high yield; however, the use of chemical reducing agents are harmful to living organisms . Recently, Abbasi et al. explained a detailed account of synthesis methods, properties, and bio-application of AgNPs .

Silver Nanoparticles: Synthesis, Characterization, Properties ...
Accordingly, lignin should be chemically modified and synthesized with other polymers to be suitable for getting materials with advanced properties, such as polyurethane and polyester polymers . Through the functionalization of its hydroxyl groups, lignin becomes a good candidate as a building block unit for polymer synthesis to elaborate ...

Chemical modification of lignins: Towards biobased polymers
Due to its abundant phenolic hydroxyl groups, tannic acid (TA), a plant-derived polyphenol, can form a series of one-pot physically synthesized hydrogels with various polymers (Zhang et al., 2021). Interestingly, TA can impart anti-inflammatory, antioxidant, and antibacterial properties to the hybrid hydrogels (Gao et al., 2021).

A hydrogen-bonded antibacterial curdlan-tannic acid hydrogel with an ...
Phenolic compounds are known to exhibit various biological activities such as antimicrobial, antioxidant and anti-inflammatory properties. This book chapter begins with classification of phenolic compounds in concise manner followed by going through their chemical properties that are essential for their biological activities.

Phenolic Compounds: Classification, Chemistry, and Updated Techniques ...
Nanomaterials can be produced with outstanding magnetic, electrical, optical, mechanical, and catalytic properties that are substantially different from their bulk counterparts. The nanomaterial properties can be tuned as desired via precisely controlling the size, shape, synthesis conditions, and appropriate functionalization. This review ...

Nanomaterials: a review of synthesis methods, properties, recent ...
Design, synthesis, and characterization of Pt-iNOS@ZIF. In this study, the natural-artificial hybrid nanoreactor was designed and synthesized. First, ultrasmall polyvinylpyrrolidone-coated Pt NPs ...

Protective effect of platinum nano-antioxidant and nitric ... - Nature
Objective Green Processing and Synthesis is an open access, single-blind peer-reviewed journal that provides up-to-date research both on fundamental as well as applied aspects of innovative green process development and chemical synthesis, giving an appropriate share to industrial views. The contributions are cutting edge, high-impact, authoritative, and provide both pros and cons of potential ...

Green Processing and Synthesis - De Gruyter
In the study, a novel two-step and scalable process was presented for the synthesis of emulsions from these materials, with the effect of treatments analyzed. ... with the effect of treatments analyzed. The research has appeared in the journal Polymers. Study: Lignocellulose Extraction from Sisal Fiber ... antioxidant properties, and mechanical ...