Macromolecules and their properties

The PNB can effectively restrict the transport of macromolecules to the peripheral nerve owing to low efficiency of pinocytosis, to an extent comparable to the BBB. In addition, transferrin- or ...

Polyhydroxyalkanoates (PHAs) are a class of bioplastic polyesters whose properties can be tuned by polymer composition (i.e., side-chain identity) and microstructure (i.e., tacticity). Although ...

The quality and predictive power of bubble growth models developed for physical polymer foaming processes is highly dependent on the thermophysical properties of the corresponding mixtures ...

This study addresses the issue of inadequate mechanical properties in enteric plant-based dropping pill shells prepared using a single gelling agent. Sodium alginate (SA) was used as ...

In this study, biphenylene, p -terphenylene, and p -quaterphenylene units with varying rigidity were employed as building blocks for poly (arylene piperidinium)s to systematically assess ...

Our findings highlight the synergistic interactions between reversible and irreversible cross-linking mechanisms and their role in modulating the final hydrogel properties. The tunability of this ...

Nonruminant animals, including humans, obtain proteins principally from animals and their products--e.g., meat, milk, and eggs. The seeds of legumes are increasingly being used to prepare inexpensive protein-rich food ...

Fossile-sourced macromolecules have intrisic properties (mechanical, thermal, aging, solvent resistance, wear resistance, water resistance, tribology, ...) that vegetal-sourced polymers do ...

The antifouling performance of polymeric zwitterions exceeds those of other antifouling coating design strategies and is thought to be related to their strong surface-hydration interactions. ...

Polymer optical materials are becoming increasingly important in modern technologies owing to their unique properties. This study applies coupled perturbed density functional theory (DFT) ...

Molecule, a group of two or more atoms that form the smallest identifiable unit into which a pure substance can be divided and still retain the composition and chemical properties of that substance. Learn more about the ...

Network synthesis strategies are critical in determining the properties of liquid crystal elastomers (LCEs), making their selection essential for tailoring material performance. This study ...

Thus, studying the structure-responsive properties relationship for microgels remains essential to modulate their properties in the bulk and at the interfaces. Nevertheless, such a study is ...

Lipid structure Structure and properties of two representative lipids. Both stearic acid (a fatty acid) and phosphatidylcholine (a phospholipid) are composed of chemical groups that form polar "heads" and nonpolar "tails." ...

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The results demonstrate that the structural and functional properties of bigels based on beeswax and taro starch can be effectively modulated by adjusting the OG:HG ratio. Their high OHC > ...

Applications of PHs The excellent properties (antibacterial, anti-inflammatory, osteogenic, adhesive, self-healing, and degradable properties) of PHs, have laid the foundation for their ...

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