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Soft nanoscience has developed with backgrounds in organic and organometallic chemistry. It has been derived from molecular synthesis and has generated a broad range of new types of nanostructures: colloids, vesicles, polymers, molecular aggregates, self-assembled monolayers, and other small structures. Faraday discussion shows a broad spectrum of work as following, representative of the work going on in soft nanoscience: biology, nanoactuation, nanomechanics, vesicles, molecular recognition

Soft Nanotechnology - Soft-Matter

1 20 Applications of soft matters Soft materials are important in a wide range of technological applications. They may appear as structural and packaging materials, foams

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and adhesives, detergents and cosmetics, paints, food additives, lubricants and fuel additives, rubber in tires, etc. In addition, a number of biological materials (blood, muscle, milk, yogurt, jell) are classifiable as soft matter. Liquid crystals, another category of soft matter, exhibit a responsively to electric fields ...

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components play key roles it begins with a brief history of soft nanotechnology soft nanotechnology is the branch of nanotechnology concerned with the synthesis and properties of organic and organometallic nanostructures and soft components plays key roles with nanofabrication o soft materials with nanoscale structure formed by self

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from nanochemistry the paper identifies the natural tendency of its nanotechnology with soft matter from structures to functions boey freddy yin chiang fuchs harald chen xiaodong 2011 05 23 000000 guest editors of this special issue on nanotechnology with soft matter soft matter science is a multidisciplinary area of chemistry physics biology and materials science it essentially deals with matter such as functional polymers amphiphiles liquid soft matter nanotechnology from structure to function

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Soft matter or soft condensed matter is a subfield of condensed matter comprising a variety of physical systems that are deformed or structurally altered by thermal or mechanical stress

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of the magnitude of thermal fluctuations. They include liquids, colloids, polymers, foams, gels, granular materials, liquid crystals, pillows, flesh, and a number of biological materials. These materials share an important common feature in that predominant physical behaviors occur at an energy scale comparable w

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