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Synthetic methods are generally divided into two categories, step-growth polymerization and chain polymerization. ... Nowadays, synthetic polymers are used in almost all walks of life. Modern society would look very different without them. The spreading of polymer use is connected to their unique properties: low density, low cost, good thermal/electrical insulation properties, high resistance ...

[Polymer science - Wikipedia](#)

Synthetic polymers that form hydrogels are traditionally prepared using chemical

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polymerization methods. Hydrogel product sensitive to environmental conditions . As mentioned above, hydrogels as three-dimensional cross-linked hydrophilic polymer networks are capable of swelling or de-swelling reversibly in water and retaining large volume of liquid in swollen state. Hydrogels can be designed ...

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The Encyclopedia of Polymer Science and ... polymer properties, polymerization methods, processing, and uses. Special emphasis is put on new and

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Many modern DSC instruments have the ability to measure the absolute heat flow. This is done by dividing the signal by the measured heating rate, which converts it into a heat capacity signal. Monitoring the heat-capacity related signal as a

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function of the applied
experimental conditions (such as a
heating ramp) can determine how
the heat capacity of the sample
changes as it undergoes a phase ...

[One?Dimensional Nanostructures: Synthesis ...](#)

Polymer Science and Engineering:
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characterization) in order to
capitalize on economic
opportunities. These materials are
complex in terms of molecular
structure, and so there are many
ways to tailor their behavior
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A summary of the description of multimode quantum states is presented along with an example of the characterization of correlations and entanglement with applications in metrology and quantum computation. Show Abstract . PDF HTML. Models of polymer solutions in electrified jets and solution blowing Marco Lauricella, Sauro Succi, Eyal Zussman, Dario Pisignano, and Alexander L. Yarin

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Graphene oxide (GO) films with two-dimensional structure were successfully prepared via the modified Hummer method. It is proven that redox method is a promising way to synthesize GO films on a large scale.

Comprehensive characterizations of the properties of GO films were conducted. TEM and DFM analyses showed that GO sheets prepared in this study had single and double lamellar layer ...

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Characterization of *I. sakaiensis* revealed the PETase enzyme, which is a cutinase-like serine hydrolase that attacks the PET polymer, liberating bis-(hydroxyethyl) terephthalate (BHET), mono(2-hydroxyethyl) terephthalate (MHET), and TPA. PETase cleaves BHET to MHET and EG, and the soluble MHET product is further hydrolyzed by MHETase to produce TPA and EG. Multiple crystal structures and ...

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Different characterization techniques are classified according to the concept/group of the technique used, the information they can provide, or the materials that they are destined for. We describe the main characteristics of the techniques and their operation principles and we give various examples of their use, presenting them in a comparative mode, when possible, in relation to the property ...

[Computational Materials Science - Journal - Elsevier](#)

These include methods and limitations of obtaining binary

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pore/rock images, calculations to use imaging to extend the size range of scattering data using one- and two-point correlations, and the potential utility of three-point correlation analysis. Fractal approaches to image quantification, including mono- and multifractal analysis, lacunarity and succolarity, as well as other types of ...

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applications from science to engineering. The synthesis, processing, fabrication, characterization, properties and devices at nanoscale are discussed.

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x Surgeons in resource-limited environments often provide care outside the expected scope of current general surgery training. Geographically isolated patients may be unwilling or unable to travel for specialty care. These same patients also present with life-threatening emergencies beyond the typical breadth of a general

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This paper describes hitherto developed drug forms for topical ocular administration, that is, eye drops, ointments, in situ gels, inserts, multicompartement drug delivery systems, and ophthalmic drug forms with bioadhesive properties. Heretofore, many studies have demonstrated that new and more complex ophthalmic drug forms exhibit advantage over traditional ones and are able to

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