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# Polymer Physics A Molecular Approach

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## **Polymer Physics A Molecular Approach**

energy for polymer  
escape for small  
peptides and  
polyethylene glycol  
(PEG) from the  
-hemolysin ( HL) pore  
and the Au 25(SG) 18-  
modified HL complex.  
The analysis here uses  
a self-consistent

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picture of the energetic landscape by connecting the free energy difference between the polymer in the pore and the polymer in the bulk (i.e.,

## **CHEMICAL PHYSICS** **Copyright © 2021** **Laser-based** **temperature ...**

An organic solar cell (OSC) or plastic solar cell is a type of photovoltaic that uses

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organic electronics, a branch of electronics that deals with conductive organic polymers or small organic molecules, for light absorption and charge transport to produce electricity from sunlight by the photovoltaic effect. Most organic photovoltaic cells are polymer solar cells.

**Organic solar cell -  
Wikipedia**

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The number average molecular weight,  $M_n$ , of the polymer can be calculated from the amount of initiator and amount of consumed monomer, ... An alternative approach for functionalizing polymers is to begin the polymerization with a functional anionic initiator (see example above). ... Physics of Polymers. Physical and mechanical properties of ...

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## **Polymer Properties Database**

From a molecular structure standpoint, the dual-SME is enabled by the combination of a reversible switching mechanism and a network structure. Thus, the simplest (and very common) polymer systems, such as a crosslinked (chemically or physically) amorphous



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(or crystalline) polymer  
would exhibit such a  
behavior ...  
.Indeed, the dual-SME  
has been known for  
quite a long time and is  
the basis ...

## **Recent progress in shape memory polymer: New behavior ...**

Polymer synthesis and  
functionalization •  
Novel synthetic routes  
for polymerization,  
functional modification,

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controlled/living polymerization and precision polymers. Stimuli-responsive polymers • Including shape memory and self-healing polymers. Supramolecular polymers and self-assembly • Molecular recognition and higher order polymer ...

**European Polymer  
Journal - Elsevier**  
Physics (from Ancient  
Greek: φυσική

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(ἐπιστήμη), romanized: physikḗ (epistēmē), lit. 'knowledge of nature', from φύσις phýsis 'nature') is the natural science that studies matter, its motion and behavior through space and time, and the related entities of energy and force. Physics is one of the most fundamental scientific disciplines, and its main goal is to understand ...

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### **Physics - Wikipedia**

We demonstrate the impact of the type and position of pendant groups on the n-doping of low-band gap donor-acceptor (D-A) copolymers. Polar glycol ether groups simultaneously increase the electron affinities of D-A copolymers and improve the host/dopant miscibility compared to nonpolar alkyl groups, improving

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the doping efficiency  
by a factor of over 40.  
The bulk mobility of the  
doped ...

## **Controlling n-Type Molecular Doping via Regiochemistry and**

...

Molecular recognition  
of species introduced  
in solution is a  
relatively unexplored  
approach for modifying  
the properties of  
brushes that are  
otherwise inert and

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nonresponsive.

Although certain brushes, in particular polyelectrolytes, (8,11,12) are well-known for being “sticky”, there are few examples where species in solution can alter the ...

## **Control of Polymer Brush Morphology, Rheology, and Protein ...**

Gel electrophoresis is a powerful technique

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used to manipulate DNA and as an analytical tool, such as in DNA fingerprinting. Build your own gel electrophoresis device from scratch with simple materials, and use electricity to separate colored dyes.

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[d41d8cd98f00b204e9800998ecf8427e](https://doi.org/10.1016/j.physa.2016.04.011).

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