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Force field (chemistry) -  
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Wikipedia Polymer

Adhesion: Seeking New  
Solutions for an Old  
Problem ... Squarate Cross-  
Linked Gelatin Hydrogels as  
Three ... (PDF) Bioprocess  
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Pauline M. Doran ... Journal  
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in the context of chemistry  
and molecular modelling,  
a force field is a  
computational method that  
is used to estimate the  
forces between atoms  
within molecules and also  
between molecules. More

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precisely, the force field  
refers to the functional  
form and parameter sets  
used to calculate the  
potential energy of a  
system of atoms or coarse-  
grained particles in  
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adhesion is ubiquitous in  
both the natural world and  
human technology. It is  
also a complex multiscale  
phenomenon, such that the  
solution of adhesion  
problems requires a  
convergence of chemistry,

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physics, and engineering.  
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In this Perspective, we  
provide an overview of  
some of the fundamental  
concepts that have  
emerged in the field of  
polymer adhesion, discuss  
recent work, and ...

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Hydrogels are useful  
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platforms as three-  
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scaffolds for cell culture,  
drug-release systems, and  
regenerative medicine  
applications. Here, we  
propose a novel chemical  
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the use of 3,4-diethoxy-3-cyclobutene-1,2-dione or

diethyl squarate for the

preparation of 5 and 10%

w/v gelatin-based

hydrogels. Hydrogels

showed good swelling

properties, and the 5% ...

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skills, to empower them to  
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problems and experiments,  
and to provide training for  
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Zero-point energy (ZPE) is  
the lowest possible energy  
that a quantum mechanical  
system may have. Unlike  
in classical mechanics,  
quantum systems  
constantly fluctuate in

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their lowest energy state as described by the Heisenberg uncertainty principle. As well as atoms and molecules, the empty space of the vacuum has these properties.

According to quantum field theory, the universe

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can be thought ...

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Kesisoglou I, Singh G and  
Nikolaou M (2021) The  
Lambert function should  
be in the engineering  
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10.1016/j.compchemeng.2021.107

148, (107259), Online

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Cells organize many of their biochemical reactions in non-membrane compartments. Recent

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evidence has shown that  
many of these  
compartments are liquids  
that form by phase  
separation from the  
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concepts necessary to  
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consequences of liquid-  
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