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as well as  
other allied  
fields.

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aspect of  
molecular  
engineering is  
the 'property  
directed'  
synthesis of  
large  
molecules and

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molecular  
assemblies.

Synthetic  
expertise has  
advanced to a  
state which  
allows the  
assembly of  
supramolecules  
containing  
thousands of  
atoms using a



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construction  
kit' of

molecular  
building  
blocks.

Expansion in  
the field is  
driven by the  
appearance of  
new building  
blocks and by  
an improved

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understanding  
of the rules  
for joining  
them in the  
design of nano  
meter-sized  
devices.

Another aspect  
is the  
transition  
from  
supramolecules

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to materials.

At present no

single

molecule

(however

large) has

been

demonstrated

to function as

a device, but

this appears

to be only a

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matter of  
time. In all  
of this  
research,  
which has a  
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character,  
both existing  
and yet to be  
developed  
analytical

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techniques are  
and will

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and revamp  
design;  
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and solids  
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coverage of  
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processes All  
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