Low molecular mass gelators - design, self-assembly, function

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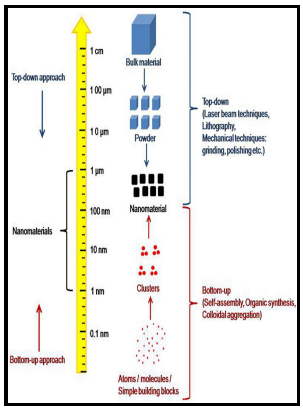

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Low Molecular Mass Gelators: Design, Self

ACS Macro Letters 2019, 8 5 , 486-491.

Low molecular mass gelators design, self

Sugar-connected amphiphilic tris-urea was found to form a gel with water, and the hydrogels showed chemical-stimuli-responsive gel—sol phase transitions. Gels: From Soft Matter to BioMatter.

Urea derivatives as low

Supramolecular block copolymers by kinetically controlled co-self-assembly of planar and core-twisted perylene bisimides.

(Macro)molecular self

A supramolecular gelator, namely dicyclohexyammonium Boc-glycinate produced gel in nitrobenzene and exhibited self-healing and load-bearing property. While the tetrapeptidic backbone of 3 provides the basis for intermolecular hydrogen bonding, the naphthyl group and phenyl groups on phenylalanine favour intermolecular aromatic—aromatic interactions.

Extended research on molecular gels: From the perspective of development of three dimensional fluorescent sensing films and low

Influence of C—H···O Hydrogen Bonds on Macroscopic Properties of Supramolecular Assembly. Though it is unable to determine the location of the nanofibres in the cells, the fractionation experiment unambiguously confirms the formation of the nanofibres inside the cells.

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