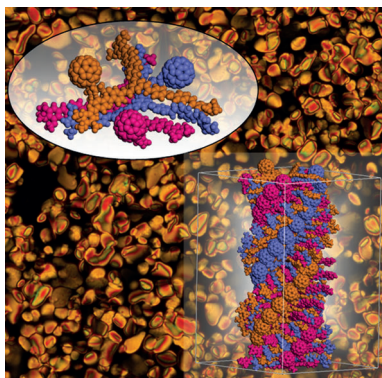


## Liquid Crystals

M. Lehmann,\* M. Hugel — 4110–4114



A Perfect Match: Fullerene Guests in Star-Shaped Oligophenylenevinylene Mesogens



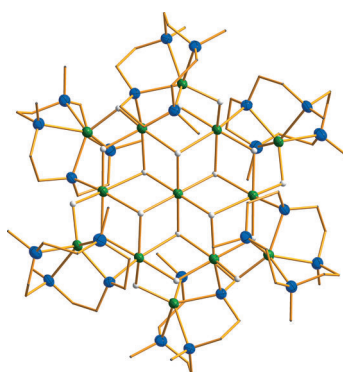
**Come into my arms:** Stilbenoid star-shaped mesogens pack densely, in helical structures that have a short correlation length, in columnar liquid-crystal phases. Attaching a fullerene guest to the interior of the star fills the void space between the arms and considerably increases the mesophase stability by approximately 70°C. The stabilization is the result of the formation of a fullerene triple helix.

## Nanoclusters

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Discrete Magnesium Hydride Aggregates: A Cationic  $\text{Mg}_{13}\text{H}_{18}$  Cluster Stabilized by NNNN-Type Macrocycles



**A light giant:** A large cationic magnesium hydride cluster with a  $[\text{Mg}_{13}\text{H}_{18}]$  core was stabilized by an NNNN-type macrocycle ligand (Mg green, N blue, H white). The structure of the central  $[\text{Mg}_7\text{H}_{12}]^{2+}$  fragment is formally derived from  $\text{Mg}(\text{OH})_2$  (Brucite) and thus differs significantly from that of the salt-like  $\text{MgH}_2$ .

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# Flashback: 50 Years Ago ...

**2015** sees the 150th anniversary of BASF, and Issue 11/2015 of *Angewandte Chemie* was dedicated to this jubilee. For the 100th anniversary in 1965, *Angewandte Chemie* also published a series of Reviews dedicated to the company, then called the Badische Anilin- & Soda-Fabrik. These included contributions by Siegfried Hunig et al. on the chemistry of diimine ( $\text{N}_2\text{H}_2$ ), and by Ralph G. Pearson and Mary M. Anderson on the exchange rates of ligands in complex ions. Pearson is best known for his work on hard and soft acids and bases, which he first published in 1963. Contributions

from BASF included Reviews on cotton dyes (H. R. Hensel and G. Lutzel), metal chelates as polymerization initiators (E.-G. Kastning et al.), the catalytic oligomerization of butene (H. Muller et al.), fungicidal compounds (K.-H. Konig et al.), catalysts for the synthesis of ammonia (R. Krabetz and C. Peters), and the latest technological developments in “mechanizing” the storage of chemical documentation (E. Meyer).

Emanuel Vogel et al. reported on the synthesis of the bicyclo[5.4.1]dodecapentaenylium ion. Reaction of 1,6-

methanocyclodecapentaene with diazomethane and treatment of the resulting olefin with triphenylmethyl fluoroborate resulted in the target product, which is an arenium ion with 10  $\pi$  electrons.

K. Pilgram and F. Korte reported on the synthesis of the highly explosive bis(1,2,3,4-thiatriazol)thio compounds from sodium 1,2,3,4-thiatriazol-5-thiolate. These compounds were found to be stable at room temperature but exploded with a loud bang upon striking.

[Read more in Issue 4/1965.](#)