

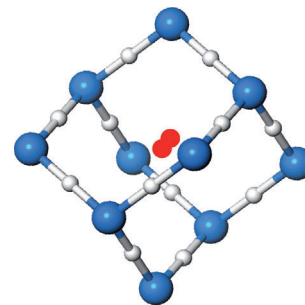
Clathrate Hydrates

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Low-Pressure Synthesis and
Characterization of Hydrogen-Filled Ice Ic

A hydrogen storage material: When vapor-deposited amorphous ice is exposed to a low pressure (about 12 MPa) of hydrogen at 140 K a hydrogen-filled cubic ice results (see picture). Calculations suggest that this material has the potential for hydrogen storage with a capacity of 10 wt% hydrogen at full loading.

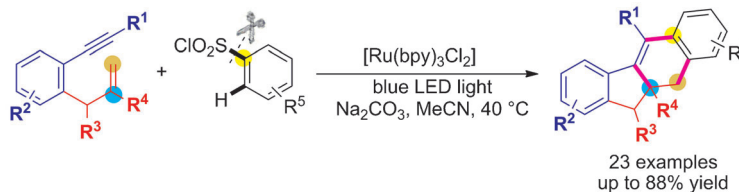


Visible-Light Photocatalysis

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Tandem Cyclizations of 1,6-Enynes with
Arylsulfonyl Chlorides by Using Visible-
Light Photoredox Catalysis



Ray of light: 10*a*,11-Dihydro-10*H*-benzo[*b*]fluorenes were synthesized by a visible-light-catalyzed tandem cyclization of 1,6-enynes with arylsulfonyl chlorides.

This method extends the scope of enyne cyclizations and represents a new synthetic application of arylsulfonyl chlorides.

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50 Years Ago ...

Angewandte Chemie International Edition was first published in 1962, the mother journal first in 1888. In this monthly flashback, we feature some of the articles that appeared 50 years ago. This look back can open our eyes, stimulate discussion, or even raise a smile.

NMR spectroscopy was already starting to revolutionize organic chemistry, and the applications of NMR to organic chemistry was the subject of a Review by J. D. Roberts, a true hero of physical organic chemistry from Caltech. As well as an introduction to the technique and to topics such as chemical shift and spin-spin coupling, several examples that have become standard textbook knowledge, such as the analysis of the interconversion of chair forms, were given.

The author's prediction of a bright future for NMR was certainly not understated!

The rising popularity of organometallic chemistry was reflected in two articles by E. O. Fischer, who received the Nobel Prize in Chemistry in 1973. In a Review, he discussed the chemistry of metal π complexes with di- and oligo-olefinic ligands, and in a Communication, he reported the expansion of six-membered rings in metal π complexes.

Hubert Schmidbaur, former Chairman of the Editorial Board of *Angewandte Chemie*, reported the formation of heterosilicate anions containing organic groups. These anions correspond to the structural units of polymeric feldspars. The ionic structure of the compounds $[\text{Me}_4\text{Sb}][\text{Al}(\text{OSiMe}_3)_4]$ was confirmed by NMR spectroscopy and X-ray structural analysis.

[Read more in Issue 2/1963](#)