CHEMISTRY
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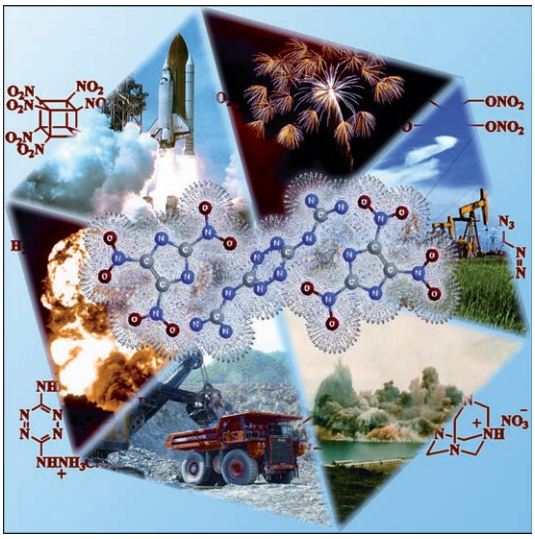
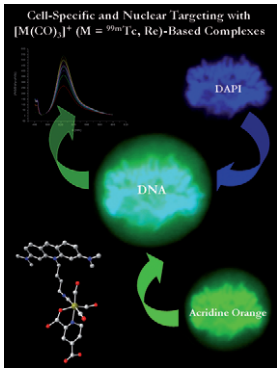
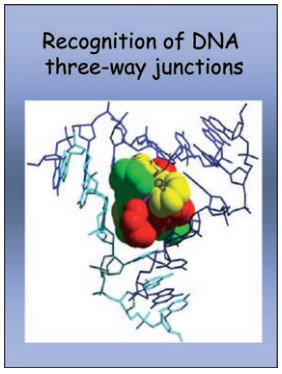
… exhibit lower vapor pressures and higher densities relative to conventional molecular energetics. In their Full Paper on page 3853 ff., J. M. Shreeve et al. take advantage of the acidity, insensitivity, and high oxygen content of trinitroimidazole to design several new energetic salts with high molar enthalpies of formation and concomitant detonation velocities and pressures. These new salts are potential candidates for both industrial and military applications (illustrated on the cover).





Nuclear Targeting
In their Full Paper on page 3842 ff., R. Alberto et al. describe the individual steps required for targeting the nucleus of a specific cell type with rhenium and with ^{99m}Tc. A bifunctional nucleus-targeting molecule is able to carry a metal complex into its target, whereas a trifunctional molecule that contains receptor-specific bombesin is only taken up by cells containing the gastrin-releasing peptide receptor.

Anion-Templated Synthesis
In their Full Paper on page 3861 ff., P. D. Beer et al. describe the formation of pseudorotaxanes that contain a calix[4]arene motif by using an anion template. Performing ring-closing methathesis reactions on these pseudorotaxanes resulted in the formation of catenanes with unique anion-binding properties.



DNA Three-Way Junction
In their Full Paper on page 3871 ff., V. Brabec et al. describe the interaction of metallosupramolecular cylinders with DNA three-way junctions by means of gel electrophoresis. These studies establish that this recognition is not restricted to the solid crystalline state and three-way junctions formed from palindromic DNAs with a central AT step at the junction; nonpalindromic three-way junctions and those with GC steps are also stabilized, amongst others.