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## New Trends in Ionic Chemistry: From Oxidative C-H Coupling to Anion-Binding Catalysis

The development of sustainable chemical processes is one of the most important features in modern chemistry. Among the relevant methods devoted to achieve efficient syntheses, catalysis represents a key and central approach. Within this context, my group is dedicated to exploit the ubiquitous and rich chemistry of ionic compounds and intermediates in nature and organic chemistry to introduce new bonds and stereocenters in targeted molecules. Thus, in this lecture our latest approaches and recent results based on 1) *cationic intermediates* towards the development of novel, mild oxidative C–H bond functionalization reactions and 2) *anionic species* for enantioselective anion-binding catalyzed synthesis of valuable (bioactive)heterocycles, will be presented.

