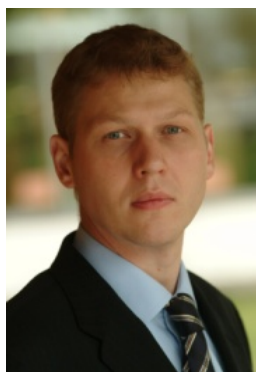


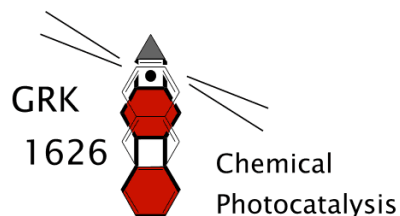
Shedding Light on Organocatalysis



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The development and application of metal-free catalysts has become an important topic in organic synthesis and catalysis. Recently, chiral Brønsted acids and Lewis bases have been shown to be vital alternatives to metal catalysts and examples of highly enantioselective transformations have been reported. These reactions, similar to several enzymatic processes, proceed through ion-pair and hydrogen-bond activation or through intermediary formed covalent bonds. In this presentation our introduction to enantioselective Brønsted acid and Lewis base catalysis will be shown and new and valuable transformations will be highlighted. Additionally, efforts to delineate the general requirements for performing Brønsted acid, Lewis base as well as synergistic catalysis with the use of visible light will be outlined.



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