Ferrocene-containing organized molecular architectures and supramolecular systems

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In this lecture, synthesis, properties and applications of ferrocenylated polyaromatic compounds developed in my research group will be presented. The talk will be divided into two parts dealing with ferrocene-containing organized molecular compounds (topic 1) and ferrocene-tethered bowl-shaped sumanene derivatives (topic 2). The discussion will include the design of easy-to-perform and effective methods for the synthesis of above-listed molecules, including mechanochemical synthesis. Topic 2 will additionally include the demonstration of the potential of sumanene buckybowl derivatives in applied supramolecular chemistry (molecular recognition), as well as very recently discovered anticancer-related properties of ferrocenylated sumanenes.