

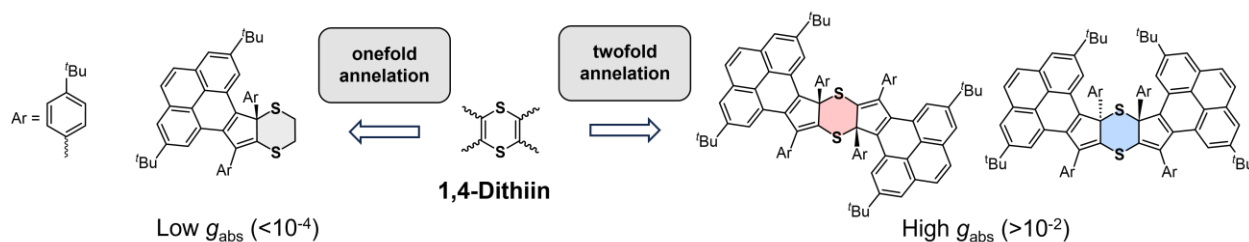
# Synthesis of Chiral Pyrene-Based 1,4-Dithiins

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The incorporation of two sulfur atoms within a  $\pi$ -conjugated carbon scaffold makes 1,4-dithiins a special class of six-membered heterocyclic compounds of steadily growing interest.<sup>[1–3]</sup> Dithiins are known for their reversible redox properties to generate radical cations and thus are interesting for functional materials.<sup>[4,5]</sup> Furthermore, 1,4-dithiins typically adopt non-planar boat-conformations, which can be used to construct curved and sulfur-rich PAHs based on pyrene,<sup>[3]</sup> corannulene<sup>[6]</sup> or nanobelts.<sup>[2]</sup> However, chiral dithiin compounds are rarely encountered and, if so, their chiroptical investigations are very limited. Here we present the synthesis of several structurally-related pyrene-fused dithiins containing stereogenic centers on the core dithiin motif with a focus on tuning circular dichroism in respect to  $g$ -values depending on their connectivity.<sup>[7]</sup>



**Figure 1:** Chiral title compounds carrying the same pyrene-backbone, but with different connectivities to the dithiin core.

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