

## Endo, Exo, and What?

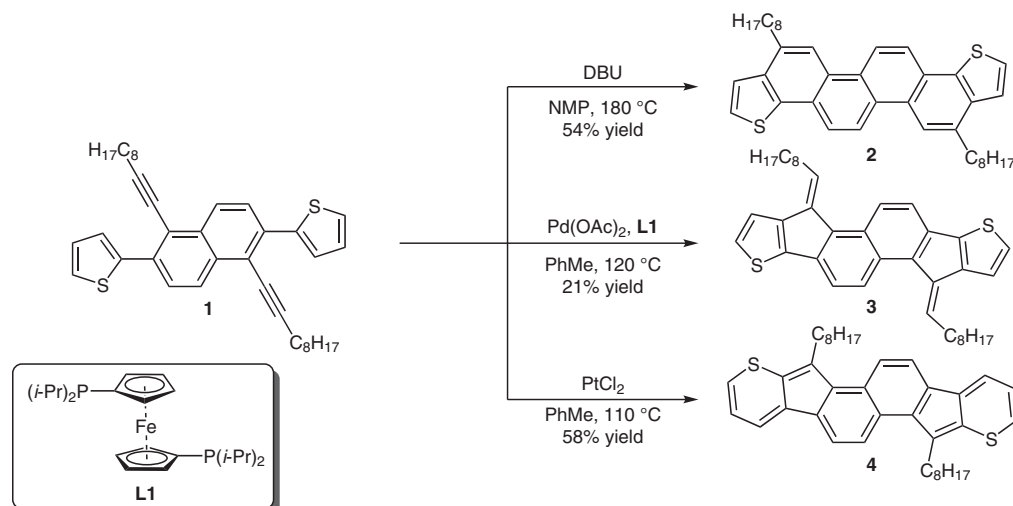
Category

Synthesis of  
Materials and  
Unnatural Products

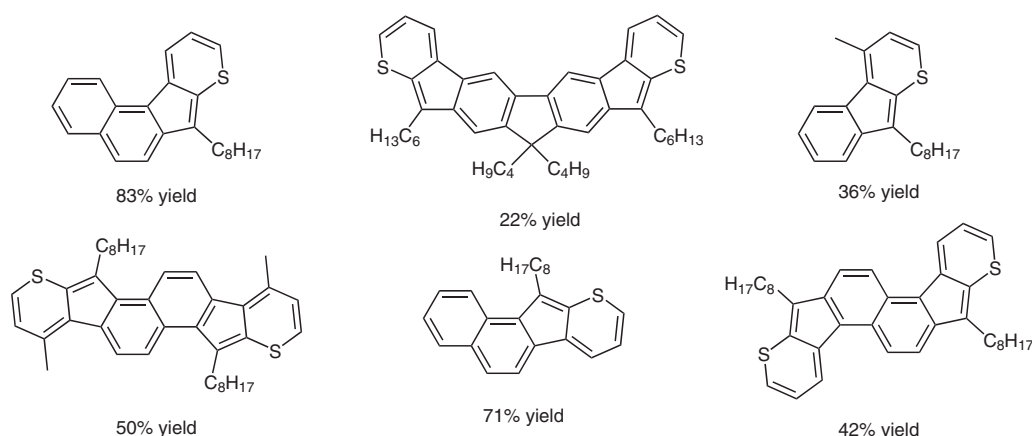
Key words

thiopyrans  
polycycles  
cycloaromatization

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of the  
Month



### Selected thiopyrans:



**Significance:** The properties of cyclopenta[*b*]thiopyran and derivatives thereof are largely unexplored, due in part to their challenging synthesis. This methodology, however, provides rapid access to many thiopyran derivatives. Thiopyran **4**, being isoelectronic to azulene, exhibits many interesting properties, such as strong near-IR absorption and exceptional electrochemical stability, as observed by cyclic voltammetry studies.

**Comment:** The ability to transform a single compound into a multitude of products with unique properties is particularly useful for the synthesis of functional materials. In this report, the authors cyclize diene **1** to form **2** via a 6-*endo* cyclization, **3** via a 5-*exo* cyclization, and **4** via an unexpected skeletal rearrangement.