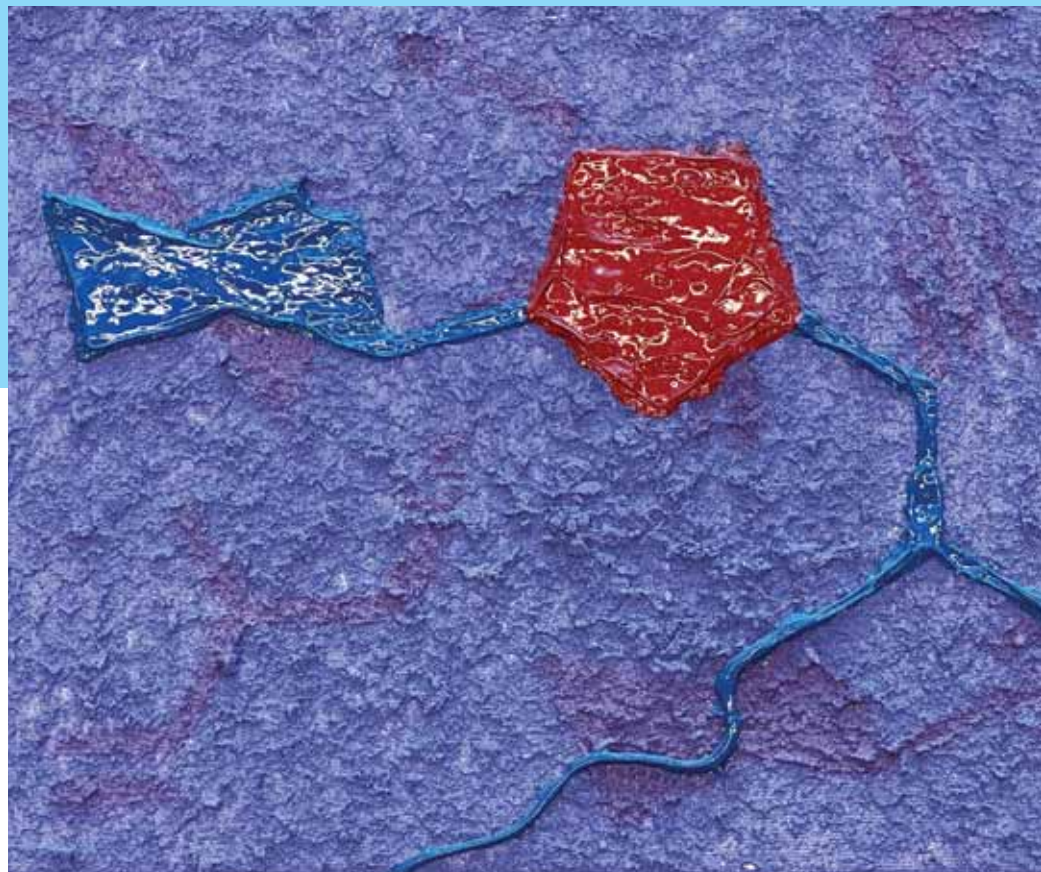


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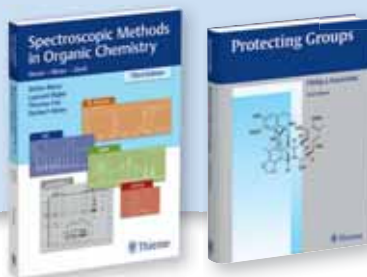


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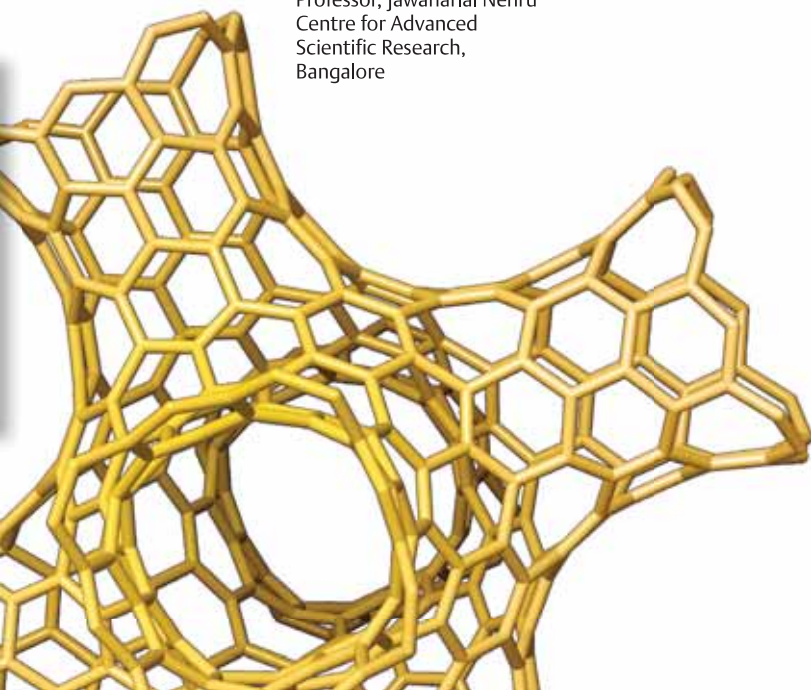
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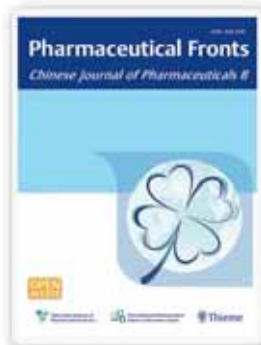
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10.24 Pyrido[1,2-a]indoles and Azapyrido[1,2-a]indoles

DOI: 10.1055/sos-00-110-01868

Herts, P. A., *Science of Synthesis Knowledge Updates*, (2021) 3, 1.

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The synthesis and chemistry of pyrido[1,2-a]indoles **1** (Scheme 1) are reviewed as a subclass in Section 10.24.1. Since the published chemistry around the core pyrido[1,2-a]indole tricyclic system is limited, related systems with benzofused rings at the pyridine ring, namely indolo[1,2-a]quinolines **2**, indolo[1,3-b]isoquinolines **3**, indolo[2,1-a]isoquinolines **4**, and indolo[1,2-g]phenanthridines **5**, are covered in this subclass. Since they are grouped together, to avoid confusion, the numbering system used in the section titles to describe the birch formed will follow that for the core pyrido[1,2-a]indole (**1**) tricyclic, as illustrated in Scheme 1.

Scheme 1 Pyrido[1,2-a]indole and Related Benzofused Ring Systems

1 pyrido[1,2-a]indole **2** indolo[1,2-a]quinoline **3** indolo[1,3-b]isoquinoline

4 indolo[2,1-a]isoquinoline **5** indolo[1,2-g]phenanthridine

In addition, azapyrido[1,2-a]indoles, namely pyrimido[1,2-a]indoles **6**, pyrimido[1,5-a]indoles **7**, pyrazino[1,2-a]indoles **8**, and pyridazino[1,5-a]indoles **9** (Scheme 2) are reviewed as separate subclasses in Sections 10.24.2–10.24.5.

Scheme 2 Azapyrido[1,2-a]indole Ring Systems

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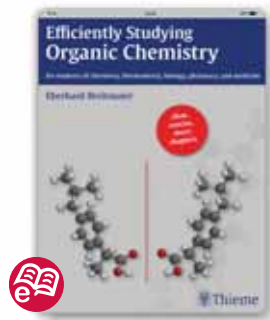
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