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Recent Developments in Photoinitiators

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Message from the Guest Editor

At present, photopolymerization processes are particularly significant in the modern chemical industry, and the fundamental components that guarantee the efficient process are photoinitiators. Currently, the multitude of requirements for modern photoinitiators results in a growing demand for improved, more efficient, and user-friendly photoinitiators. In addition to single-component initiators, multicomponent initiating systems are playing an increasingly important market role. Furthermore, great attention is being paid to the toxicity of such initiators, which is why raw materials of natural origin are becoming more frequently chosen for the synthesis of photoinitiators. Numerous research methods and increasingly efficient computer calculations make it possible to precisely understand, investigate, and justify the nature and mechanism of initiation of photoinitiators. In this issue, the latest developments in the field of synthesis, physicochemical properties of new photoinitiators, as well as modern trends of applications of such compounds are highlighted and discussed.

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