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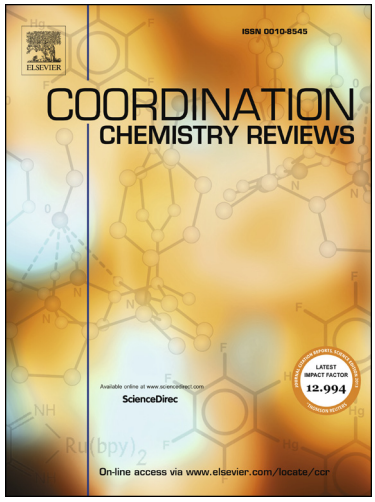

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Recent Advances in the Chemistry of Selenium-Containing Heterocycles: Six-Membered Ring Systems

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Contents:

1. Introduction
2. Six-membered ring systems containing selenium only
3. Six-membered ring systems containing selenium and nitrogen
4. Six-membered ring systems containing selenium and oxygen
5. Six-membered ring systems containing selenium and sulfur
6. Six-membered ring systems containing selenium, sulfur, and nitrogen
7. Conclusion

Acknowledgments

References

Abstract: This review provides a survey of the recent advances in the methods of construction of six-membered ring systems containing selenium over the period from the year 2000 to the year 2016.

Keywords: Selenium; Heterocycles; Organoselenium; Six-membered ring; Synthesis.

1- Introduction:

Despite the close association of selenium and sulfur chemistry and biology, the synthesis of organoselenium compounds generally and selenium-containing heterocycles more specifically, has scarcely been explored compared to their sulfur-containing counterparts [1-7]. This may be attributed to the high toxicity and less stability of many selenium reagents [8-11]. However, this picture has significantly been changed over the last three decades resulting in the development of a wide range of easily accessible, more stable, and less toxic reagents, thus enabling the easy access to different classes of organoselenium compounds [12-20].