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The use of electrophilic chalcogen species generated by reaction with Selectfluor[®]

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Selectfluor[®] is a stable, easy-to-handle, and non-hygroscopic crystalline solid that has proven to be an efficient and mild oxidant to generate electrophilic chalcogen species. In this regard, our studies have focused on the development of efficient synthetic methodologies for the synthesis and functionalization of diverse heteroarene systems using diorganyl dichalcogenides and Selectfluor[®]. Electrophilic organochalcogen species, generated in situ, have been used directly in electrophilic cyclizations or late-stage chalcogenation reactions under mild conditions.