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上智大学 理工学部 物質生命理工学科 主催
理工学部・理工学振興会 共催

Recent Advances in Organocatalytic Bromination Reactions



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場所: L-921 (図書館内会議室)

学外の方の聴講歓迎・申込不要・参加無料

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Halogenation is an important class of organic transformation. Over the past decades, reactions including cohalogenation, haloetherification, halolactonization and polyene cyclization are well documented. These reactions have been applied in many natural products and drug molecules synthesis. One of the research focuses in our research group is on the development of novel bromination reactions using N-bromosuccinimide (NBS), an easy handle and inexpensive halogen source. Recently, we have studied the use of a chiral cyclic selenide and sulfide catalysts in the asymmetric bromocyclization reactions. Various chiral, non-racemic pyrrolidines and lactones were prepared with good yields and ees. In this lecture, our recent progress in the development of organocatalytic and highly diastereoselective and enantioselective bromination reactions will be presented.

