

**Diastereoselective multicomponent cascade reaction leading to [3.2.0]-heterobicyclic compounds**

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**Direct asymmetric three-component Mannich reaction catalyzed by chiral counteranion-assisted silver**

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**Enantioselective Henry reaction catalyzed by Cull salt and bipiperidine**

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**Multifunctional catalysts in the asymmetric Mannich reaction of malononitrile with N-Phosphinoylimines : coactivation by halogen bonding versus hydrogen bonding**

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**Stereodivergent assembly of 2,6-cis- and -trans-tetrahydropyrans via base-mediated oxa-michael cyclization : the key role of the TMEDA additive**

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**Two catalytic methods of an asymmetric wittig [2,3]-rearrangement**

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