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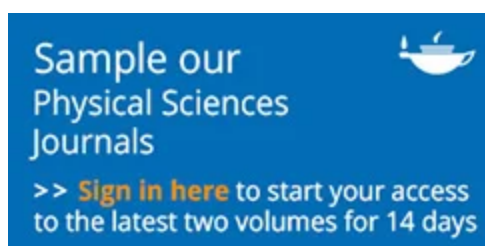
Articles

First mechanosynthesis of piperlotines A, C, and derivatives through solvent-free Horner-Wadsworth-Emmons reaction

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Abstract

Piperlotines are natural products characterized by an α,β -unsaturated amide moiety. These compounds found wide applications in Medicinal Chemistry like antibacterials, cytotoxic agents, anticoagulants, among others. To date, diverse methods of synthesis have been reported for piperlotines, but involving the use of catalysts, hazard reagents, anhydrous media or coupling reagents. Thus, in this work, we developed a greener