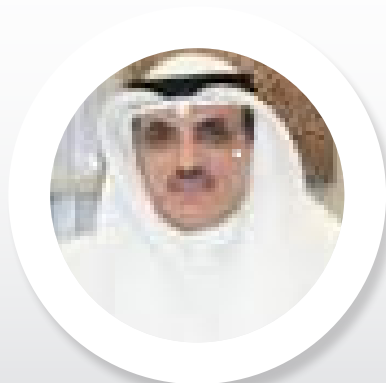


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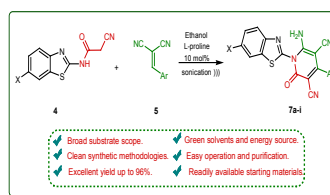
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L-Proline catalyzed one-pot synthesis of polysubstituted pyridine system that incorporates benzothiazole moiety via sustainable sonochemical approach

An efficient highly convenient synthesis of polysubstituted pyridine derivatives was established via the reaction of N-(benzothiazol-2-yl)-2-cyanoacetamides with an assortment of arylidene malononitrile or arylidene ethyl cyanoacetate in the presence of L-Proline as efficient organocatalyst for such type of ultrasonic-mediated Michael addition. The mechanistic pathway and the factors affecting this reaction were also established. The main characteristics of this procedure are high yields, utilizing a cost-effective catalyst, ease of work-up and purification ways.



Biography

Haider Behbehani has completed his PhD from Bath University, UK and Post-doctoral studies from Bath University School of Organic Chemistry. He is the Assistant Vice President for Research Analysis and Development. He has published more than 40 papers in reputed journals and has been serving as an Editorial Board Member of repute.

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