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A novel one pot two-step strategy for regio-chemoselective synthesis of new 3-methyl6-arylpyridazine-4-carboxamides and 5-oxo-3-aryl-5,6-dihydropyrido[4,3-c]pyridazine-8-carbaldehydes

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Pyridazine derivatives are an important class of heterocycles being the core fragment of different natural products and biological systems such as anti-cancer, anti-tuberculosis and anti-microbial. In this research project, a series of arylglyoxal monohydrates (I) were reacted with acetoacetamide (II) in the presence of excess hydrazine hydrate water which afforded new 6-aryl-3-methyl-4-pyridazinecarboxamide (III) in good to excellent yields. Treatment of the corresponding pyridazine derivatives (III) with Vilsemeier reagent led to chemoselective synthesis of new substituted pyridopyrid.

Biography

Ali Aghaye Lotf va Ata has completed his MSc in Urmia University and now he is PhD student completing his thesis about properties of prydazines derivatives. His MSc thesis was about properties of quinoxaline derivatives.

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