

Two-step synthesis of some unsymmetrical 4-aryl-1,4-dihydropyridines over heterogeneous metal oxide catalysts

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4-Aryl-1,4-dihydropyridines are used in the treatment of cardiovascular disease, one of the world's leading causes of disease. We developed an efficient synthesis of various substituted 4-aryl-1,4-dihydropyridines using metal oxide as heterogeneous catalyst for the first time under mild condition. This novel method consistently has the advantage of excellent yields and short reaction time (4-8 h).