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Facile four-component domino reactions for the synthesis of highly functionalized tetrahydroquinolones

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Abstract: The four-component domino reactions of (*E*)-3-(dimethylamino)-1-arylprop-2-en-1-ones with anilines, aromatic aldehydes and 1,3-cyclohexanediones in an equimolar ratio in acetic acid afforded functionalized tetrahydroquinolones in good yields. This one-pot transformation involves the formation of two C-C and two C-N bonds in a single synthetic operation.

Keywords: Domino reaction, four-component, (*E*)-3-(dimethylamino)-1-arylprop-2-en-1-one, aniline, tetrahydroquinolinones

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