

## Accepted Manuscript

Exploring the scope of the Gewald reaction: expansion to a four-component process

M. Saeed Abaee, Atefeh Hadizadeh, Mohammad M. Mojtahedi, Mohammad R. Halvagar

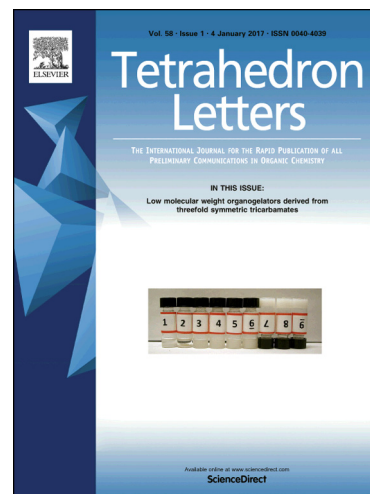
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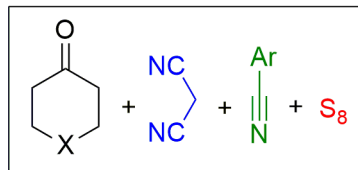


## Graphical Abstract

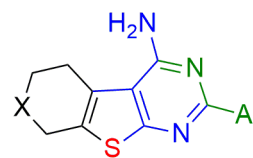
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X = S, O, NMe, (CH<sub>2</sub>)<sub>n</sub>, (n = 0-3)  
6 additional ketones;  
6 examples of ArCN

4-component  
approach

21 examples,  
71-95% yield

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