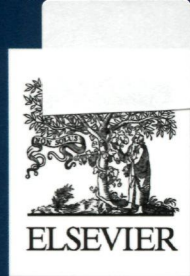


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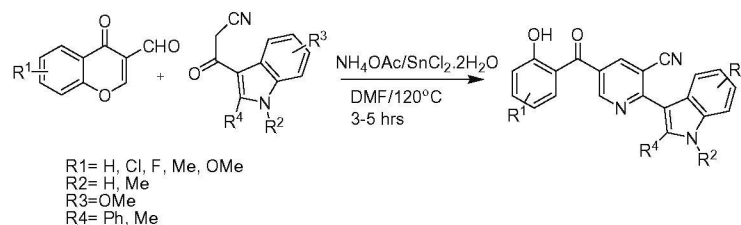
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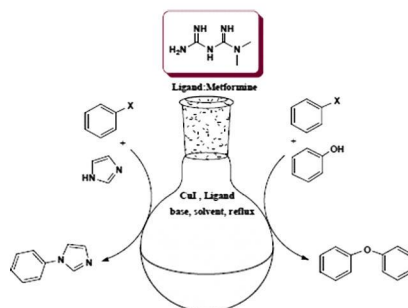
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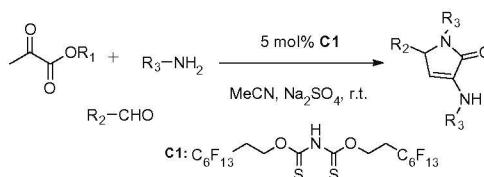
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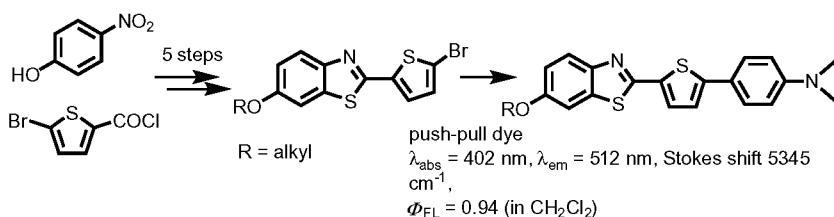
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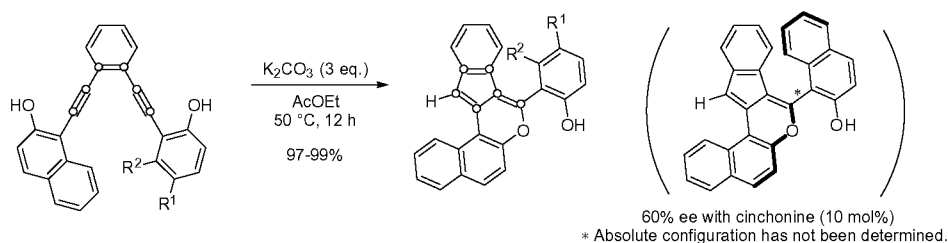
We report the synthesis of highly soluble push-pull type fluorescent 2-(2-thienyl)benzothiazole dyes and the evaluation of their photophysical properties. The key step is the synthesis of the 2-(5'-bromothiophen-2'-yl)-6-alkoxybenzothiazole via oxidative cyclization of 2-thienylcarbothioamide using $\text{PhI}(\text{OAc})_2$ as an oxidant.



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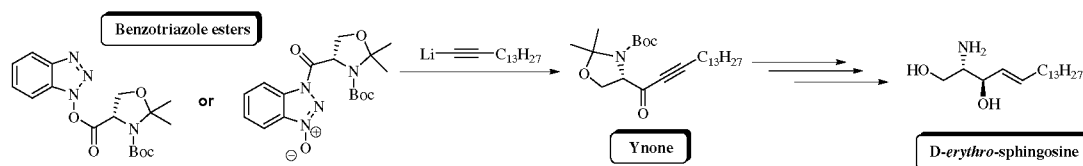
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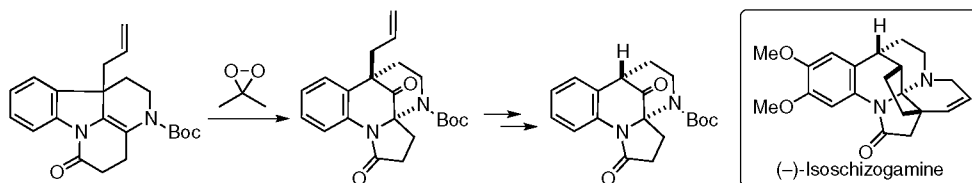
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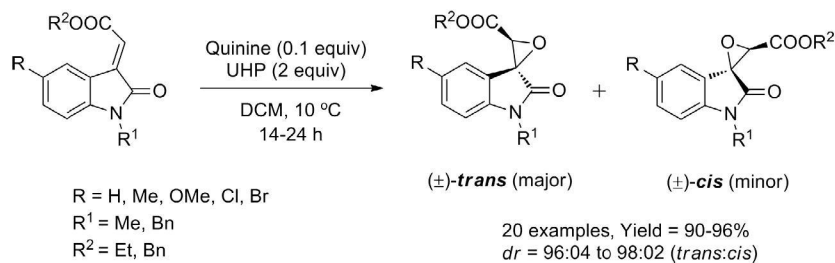
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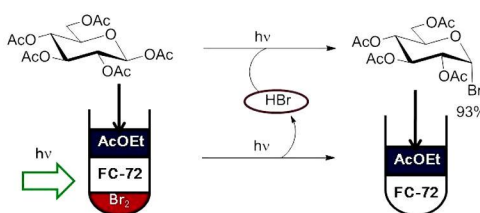
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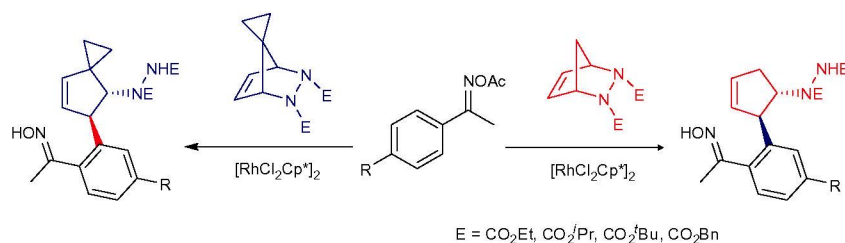
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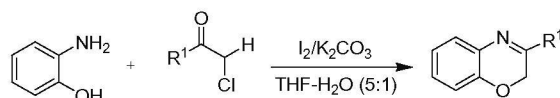
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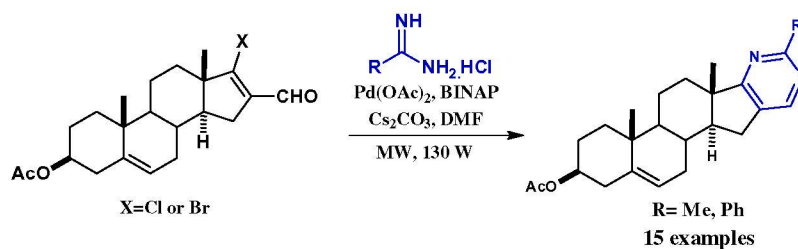
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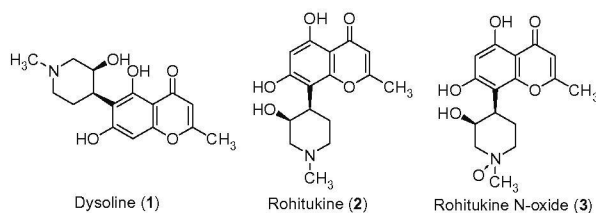
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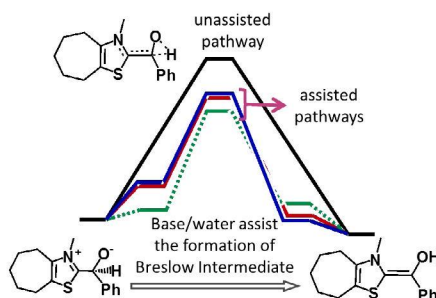
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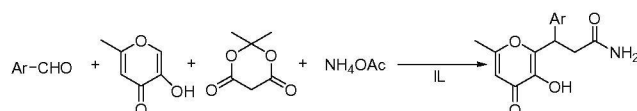
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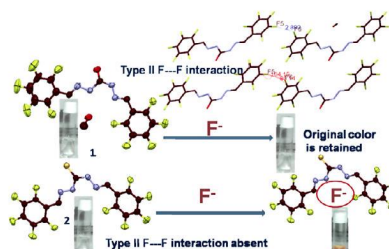
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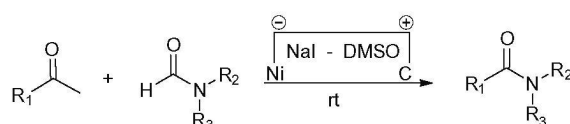
Bis(pentafluorophenyl)carbohydrazone **1** and the corresponding thiocarbohydrazone **2** showed efficient intermolecular interactions with fluoride anions whereas only **2** binds F⁻ ions selectively.



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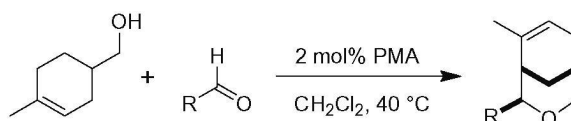
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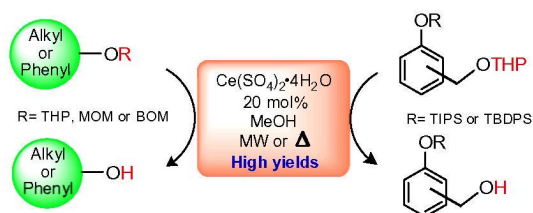
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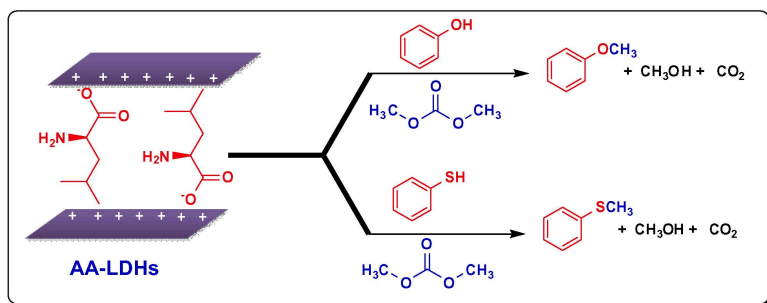
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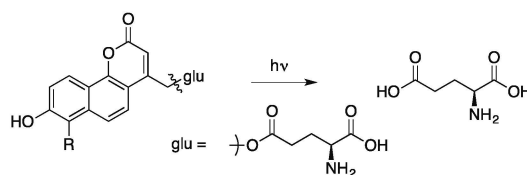


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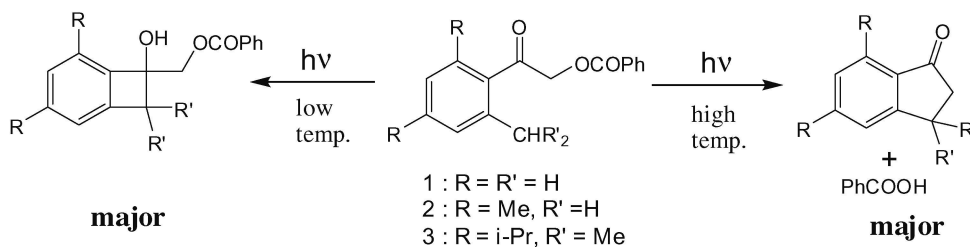
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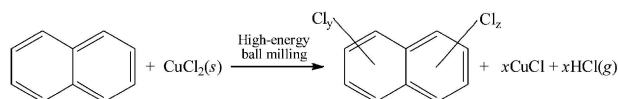

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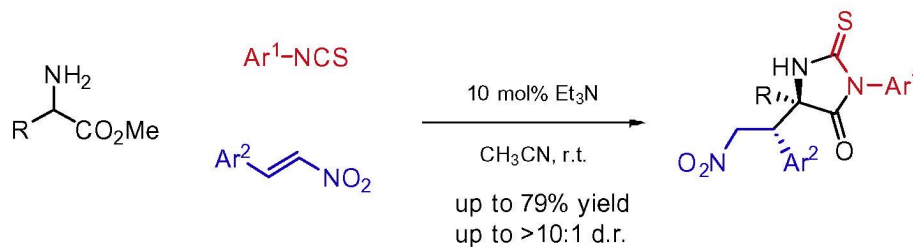
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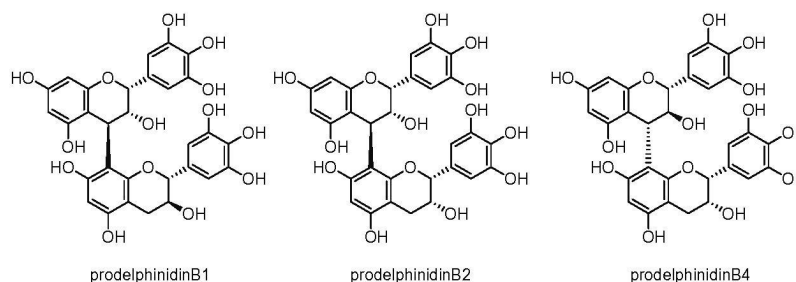
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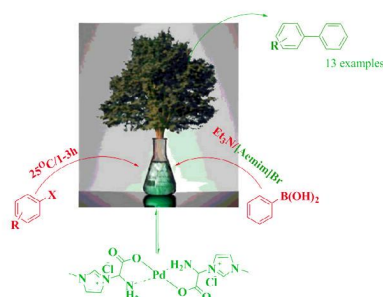
A new three-component cascade reaction for the synthesis of thiohydantoins is reported. The reaction between α -amino esters, nitrostyrenes, and aromatic isothiocyanates is efficiently promoted by organic bases to afford highly substituted thiohydantoins in moderate to good yields and diastereoselectivities.

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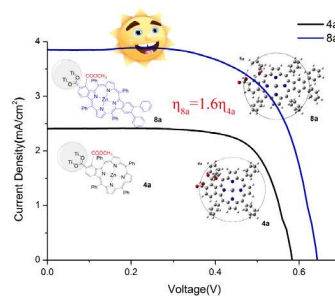
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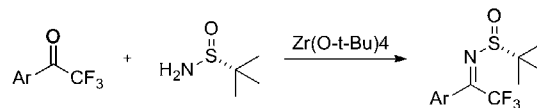
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Toshio Kawanami*, Alexander S. Karns, Christopher M. Adams, Michael Serrano-Wu



*Corresponding author

Supplementary data available via ScienceDirect

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