TOC Graphic

Multicomponent cascade reaction by metal-free aerobic oxidation for synthesis of highly functionalized 2-amino-4-cumarinyl-5-arylpyrroles

Quan-Xing Zi, Chang-Long Yang, Kun Li, Qin Luo, Jun Lin* and Sheng-Jiao Yan*

A novel approach has been constructed for the synthesis of two types of 2-amino-4-cumarinyl-5-arylpyrroles (ACAPs) through a cascade reaction and a metal-free catalyzed aerobic oxidation reaction of arylglyoxal monohydrates **1**, 1,1-enediamines (EDAMs) **2**−**3**, and 4-hydroxy-2*H*-chromen-2-ones **4**.