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Zeolite H-ZSM-5 an efficient and reusable catalyst for the synthesis of indenonaphthopyrans and tetrahydrobenzo[a]xanthen-11-ones under solvent free condition

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This study was designed for the synthesis of naphthopyrans and xanthenes derivatives in green chemistry approach. The desired compounds were obtained in high yields in short reaction times. The advantages of this method are using a powerful nontoxic, inexpensive, eco-friendly, recyclable, easy to handle, and water-soluble organo-catalyst, building several new bonds in one-pot multi-component reaction, low power consumption, short reaction times and high yields. Xanthenes derivatives represent an important class of various organic compounds. The synthesized zeolites were characterized by different techniques such as x-ray diffraction (XRD), scanning electronic microscope (SEM), FT-IR and BET surface analysis (BET). The reaction products were also characterized by FT-IR, ¹H and ¹³C NMR. Further investigation has been carried out in our laboratory for the synthesis of biological activity of naphthopyrans and xanthenes derivatives.

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