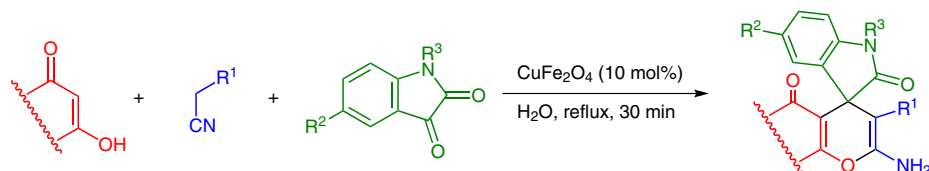


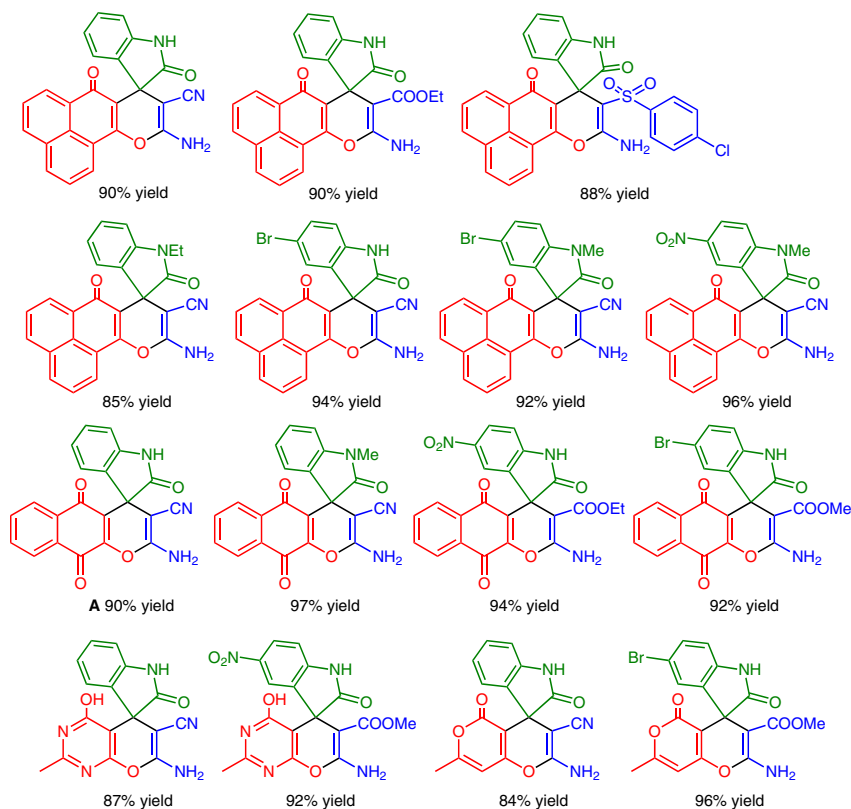
A. BAZGIR, G. HOSSEINI, R. GHahremanzadeh* (SHAHID BEHESHTI UNIVERSITY, TEHRAN AND AVICENNA RESEARCH INSTITUTE, TEHRAN, IRAN)
Copper Ferrite Nanoparticles: An Efficient and Reusable Nanocatalyst for a Green One-Pot, Three-Component Synthesis of Spirooxindoles in Water
ACS Comb. Sci. **2013**, *15*, 530–534.

Synthesis of Spirooxindoles Using CuFe_2O_4 Nanoparticles



Selected examples:

38 examples, 81–97% yield



Significance: CuFe_2O_4 nanoparticles catalyzed the three-component coupling of cyclohexane-1,3-diones, activated acetonitriles and isatins to give the corresponding spirooxindoles (38 examples, 81–97% yield).

Comment: In the synthesis of product **A**, the catalyst was recovered magnetically and reused four times (1st reuse: 90% yield, 2nd reuse: 89% yield, 3rd reuse: 88% yield, 4th reuse: 80% yield).

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Synfacts 2014, 10(1), 0100 Published online: 13.12.2013
DOI: 10.1055/s-0033-1340397; Reg-No.: Y13813SF

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