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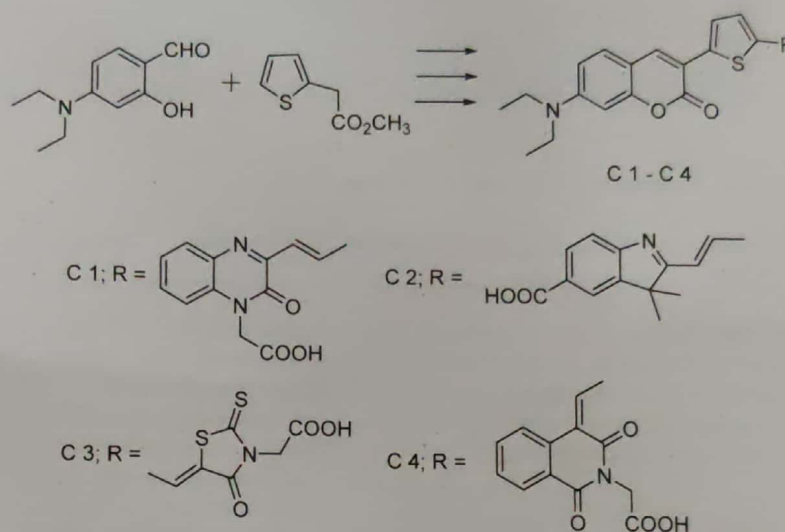
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### Papers

- 799 Synthesis of new donor-acceptor thiophene linked coumarin chromophores: Potential photosensitizers for dye sensitized solar cells



Sabir H Mashraqui\*, Sushil Ghorpade, Rupesh Mestri, Aniket Chilekar & Jyoti Upadhyay

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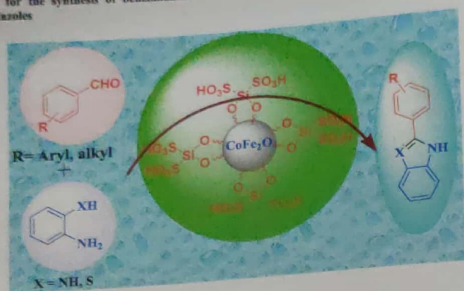
- 805 (*E*)-2-(2-Pyridinyl)-3-(2-pyridinylmethylene)chromanone, a 1:2 condensation product of 2'-hydroxyacetophenone and pyridine-2-aldehyde, showing some interesting properties



Rina Mondal, Nayim Sepay & Asok K Mallik\*

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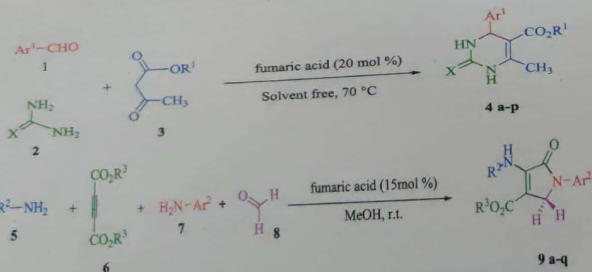
- 811 Sulfonic acid functionalized  $\text{CoFe}_2\text{O}_4$  magnetic nanocatalyst for the synthesis of benzimidazoles and benzothiazoles



Mintu Maan Dutta, Mridusmita Goswami & Prodeep Phukan\*  
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- 820 Fumaric acid catalyzed a green convenient and expedient approach for facile preparation of 3,4-dihydropyrimidin-2-(1H)-ones/thiones derivatives and N-aryl-3-aminodihydro-pyrrole-2-one-4-carboxylates under eco-safe conditions

Fumaric acid as a naturally green and efficient catalyst has been found to be cost effective for the one-pot three-component Biginelli synthesis of 3,4-dihydropyrimidin-2-(1H)-ones/thiones derivatives and one-pot four-component domino condensation of N-aryl-3-aminodihydropyrol-2-one-4-carboxylates. Fumaric acid shows promising features for these reactions, such as eco-friendliness, easily separation with no column chromatographic separation, clean synthesis, simple operational procedures, excellent yields and short reaction times.



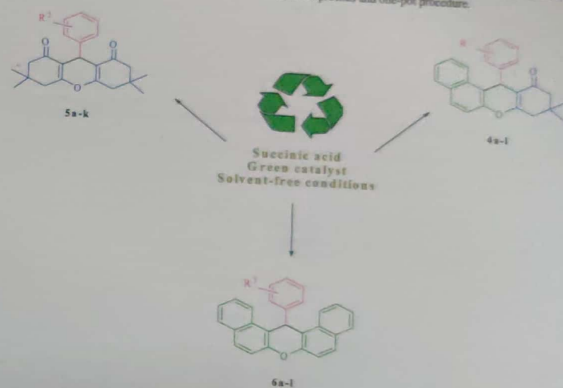
Farzaneh Mohamadpour

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- 832 Green and solvent-free protocol promoted facile and one-pot synthesis of xanthene derivatives using succinic acid as a bio-based, biodegradable and versatile di-functional Brønsted acid catalyst

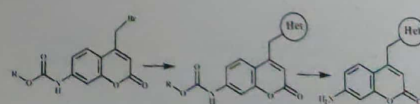
A green and highly versatile protocol for the synthesis of 12-aryl-tetrahydrobenzo[*a*]xanthene-11-one, 1,8-dioxo-octahydroxanthenes and 14-aryl-14H-dibenzo[*a*]xanthenes in the presence of catalytic amount of succinic acid under solvent-free conditions has been described. The reaction has been carried out without using any solvent and the process subscribes to the principles of green chemistry. Moreover, the present protocol offers several advantages such as simple work-up, green, bio-based, biodegradable and readily available catalyst, eco-safe reactions, shorter reaction times, high to excellent yields, facile reaction profiles and one-pot procedure.



Farzaneh Mohamadpour

Young Researchers and Elite Club, Shiraz Branch, Islamic Azad University, Shiraz, Iran

- 842 Synthesis, characterization and antimicrobial activity of some coumarin fused heterocycles

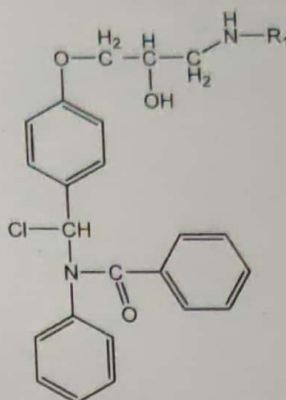


Arunkumar M Shirahatti, Mahesh Kumar K\*, Sachin P A, Soumya K, Kotresh O & Masuku M C

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- 849 **Synthesis and antidiabetic evaluation of some novel compounds**

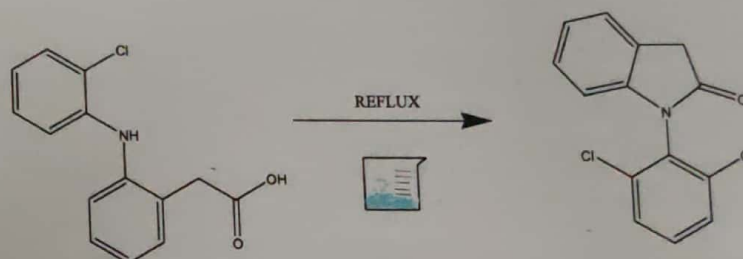


N-({4-[3-(substitutedamino)-2-hydroxypropoxy]phenyl}(chloro)methyl)-N-phenylbenzamide

Anagha S Avalakki, Shailaja B Jadhav\*, Deepti D Bandawane & Pournima A Bhalekar

Department of Pharmaceutical Chemistry, PES's Modern College of Pharmacy, Yamunanagar, Nigdi, Pune 411 044, India

- 855 **Synthesis and characterization of diclofenac impurity-A for the quality control of diclofenac and its formulation as per international compendiums**



Aparna Wadhwa\*, Sandhya Verma, Robin Kumar, Puran L Sahu & Abhishek Singh

Reference Standard Division, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare, Govt. of India, Sector-23, Rajnagar, Ghaziabad 201 002, India

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