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# Synthesis And Anti-Microbial Activity Of Chalcone Derrivatives.



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In present study substituted acetophenone on condensation with substituted benzaldehyde in ethanolic NaOH produce corresponding chalcones. The synthesized substituted chalcones further reacted with urea and thiourea in presence of ethanolic KOH to give pyrimidine derivatives. The formed final products were charectrized

on the basis of their physical properties and spectroscopic data. The antimicrobial activity of all synthesized compounds were accessed by using bacteria *Staphylococcus aureus* and *Escherichia coli*.

Key words : Chalcone, Synthesis , Pyrimidine, Antimicrobial activity.

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# Ferroferric nanoparticle: An efficient and reusable catalyst for 2H-indazolo [2, 1-b] phthalazine-triones synthesis under solvent free condition

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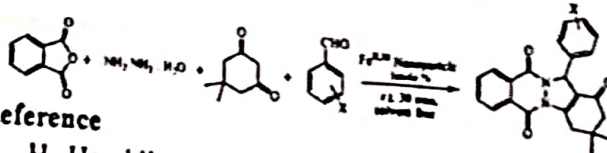
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Nitrogen hetrocyclic containing phthalazine moiety are important because they show biological and pharmacological activities. Therefore, interest for developing new, varsatile, and efficient synthesis of 2H-indazolo[2,1-b]-phthalazine-triones has been thread in synthetic community. Thus Ferroferric nanoparticle catalized the improment of such protocol involving mixture of aldehyde, dimedone, hydrazinium hydroxide and phthalic anhydride afford the 2H-indazolo[2,1-b]-phthalazine-triones under solvent free condition.



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