عنوان مقاله:

Synthesis, Antimicrobial and Antioxidant Evaluation of 3-(2- Phenylhydrazono) indolin-2-one Derivatives by Co(NO3)2 as Powerful and Efficient Catalyst

محل انتشار:

بیست و ششمین سمینار شیمی آلی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Mohammadreza Moghaddam-Manesh - *Department of Chemistry, Faculty of Science, Kerman Branch, Islamic Azad University, Kerman, Iran- General Bureau of Standard Sistan and Baluchestan Province, Iranian National Standards Organization*

Hamid Beyzaei - *Department of Chemistry, Faculty of Science, University of Zabol, Zabol, Iran*

Sara Hosseinzadegan - *Department of Chemistry, Faculty of Science, University of Sistan and Baluchestan, Zahedan, Iran*

خلاصه مقاله:

Schiff bases synthesized from the reaction of primary amines with aldehydes and ketones inspecific conditions. These compounds widely used in organic chemistry and exhibit biologicalproperties such as antiviral, antipyretic, anti-inflammatory, antifungal, antibacterial, antimalarialproperties also used as pigments and dyes, catalysts, intermediates in organic synthesis,and polymer stabilisers [1-2]. Isatin is a natural product that found in a number of plants,various derivatives of isatin have pharmacological properties such as antibacterial, antifungal,anti-HIV and antiviral activity [3]. In this research some derivatives of 3-(2-phenylhydrazono)indolin-2-one using isatine derivatives, Phenylhydrazine derivatives andCo(NO3)2 as a catalyst with high efficiency and short time were Synthesized. The synthesizedcompounds showed biological activity such as antimicrobial properties (against standardpathogens strain .and aquatic pathogens strain), antifungal activity and antioxidant propertyon DPPH

کلمات کلیدی: