

# Iranian Journal of Organic Chemistry

Iran JOC Vol. 11, No. 2, 2019

## Contents

### Graphical Abstracts

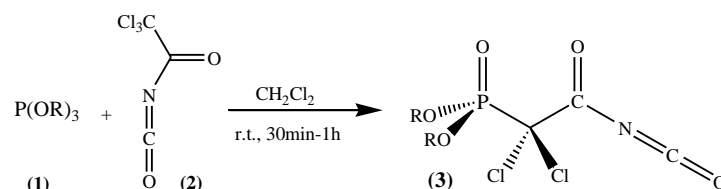
#### Spectroscopic and DFT investigations on dialkyl or diphenyl (1,1-dichloro-2-isocyanato-2-oxoethyl) phosphonate derivatives with the potential of biological and pharmaceutical activities

pp 2583-2590

Nahid Shajari\*<sup>a</sup>, Reza Ghiasi\*<sup>b</sup> and Ali Ramazani <sup>a</sup>

<sup>a</sup> Department of Chemistry, Zanjan Branch, Islamic Azad University, P. O. Box 49195-467, Zanjan, Iran

<sup>b</sup> Department of Chemistry, East Tehran Branch, Islamic Azad University, Tehran, Iran

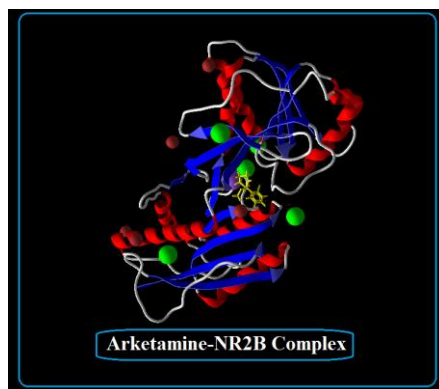


#### Non-competitive *N*-methyl-*D*-aspartate (NMDA) receptor (NR2B) structure in complex with antidepressant arketamine

pp 2591-2598

Mehdi Nabati\*, Vida Bodaghi-Namileh

*Synthesis and Molecular Simulation Laboratory, Chemistry Department, Pars Isotope Company, P.O. Box: 1437663181, Tehran, Iran.*

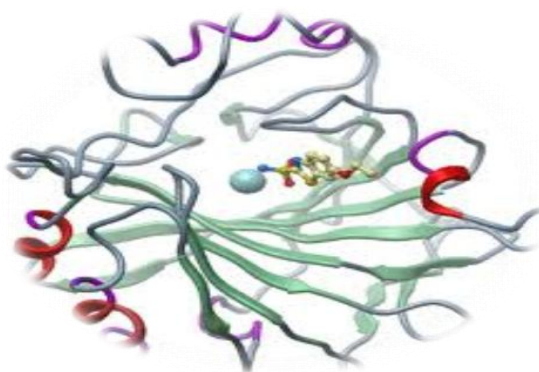


Zahraa Hamzah Abdulzahra<sup>a</sup>, Mohauman Mohammad M. AL-Rufaie<sup>a\*</sup>,  
Mahmoud Azeez M. Alchlahawi<sup>b</sup> and Ali Najj A. Al najam<sup>c</sup>

<sup>a</sup>Department of chemistry, Faculty of Sciences

<sup>b</sup>Faculty of medicine, Kufa University

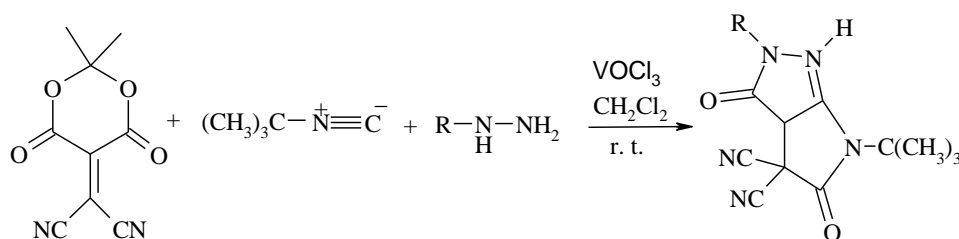
<sup>c</sup>AL-Sadar medical city, Najaf, Iraq



**A Synthesis of pyrazole derivatives from multicomponent reaction of arylhydrazines in the presence of Vanadium oxytrichloride as catalyst**

Narges Ghasemi

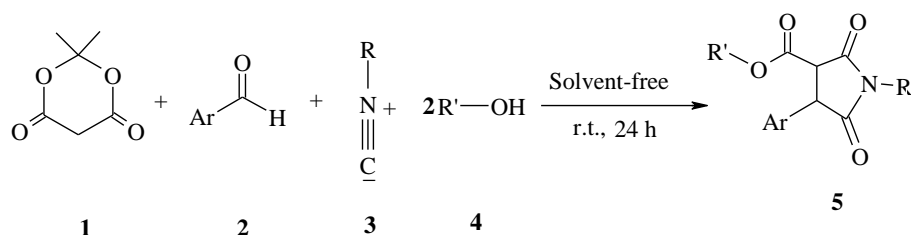
National Petrochemical Company (NPC), petrochemical Research and Technology Company, Arak Center, Iran



**An efficient synthesis of amidodiester derivatives via a pseudo five-component one-pot reaction under solvent-free conditions**

Ala Safamanesh, Mohammad Reza Hosseini-Tabatabaei\* and Alireza Hassanabadi

Department of Chemistry, Zahedan Branch, Islamic Azad University, Zahedan, Iran



## Synthesis of isoquinoline derivatives through the reaction of acetylenic compounds in the presence of amides

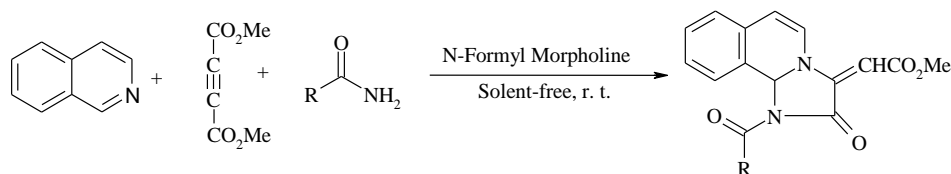
pp 2613-2616

Faramarz Rostami-Charati<sup>\*a,b</sup> and Narges Ghasemi<sup>c</sup>

<sup>a</sup>Department of Chemistry, Faculty of Science, Gonbad Kavous University, P.O.Box 163, Gonbad, Iran.

<sup>b</sup>Research Center for Conservation of Culture Relics (RCCCR), Research institute of Cultural Heritage & Tourism, Tehran, Iran.

<sup>c</sup>National Petrochemical Company (NPC), petrochemical Research and Technology Company, Arak Center, Iran

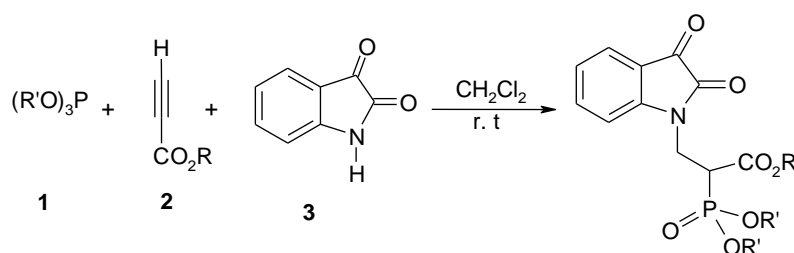


## A Synthesis of isatin phosphonate from the reaction of isatin with propiolate in the Presence of Phosphites

pp 2617-2620

Shahin Shafiee<sup>\*</sup>

Danayan Fara Kimiya (DFK) company, Gheysar Aminpour Blv., Shahin Shahr, Isfahan, Iran.



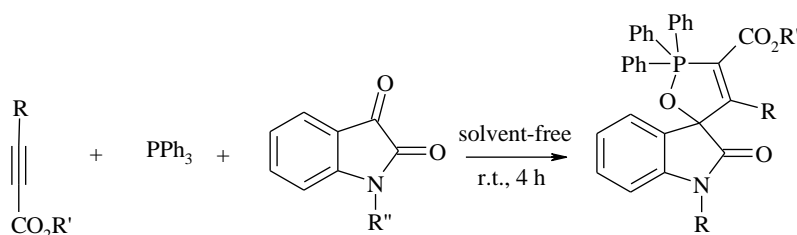
## Green synthesis of Functionalized oxaphospholes

pp 2621-2624

Faramarz Rostami-Charati<sup>a,b,\*</sup>, Reza Akbari<sup>a</sup>

<sup>a</sup>Department of Chemistry, Faculty of Basic Sciences, Gonbad Kavous University, Gonbad Kavous, Iran.

<sup>b</sup>Research Center for Conservation of Culture Relics (RCCCR), Research institute of Cultural Heritage & Tourism, Tehran, Iran.



## KF/CP NPS promoted synthesis of lactones through the reaction of

pp 2625-2631

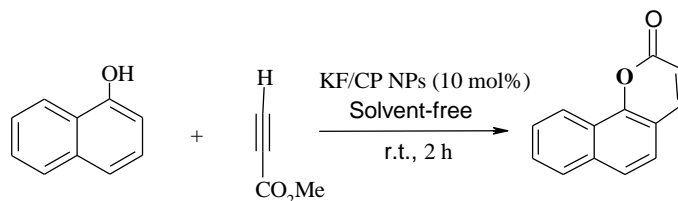
### OH-acids with activated acetylenes

Narges Ghasemia\*, Faramarz Rostami-Charati<sup>b,c</sup>, Reza Akbari<sup>b</sup>

<sup>a</sup>National Petrochemical Company (NPC), petrochemical Research and Technology Company, Arak Center, Iran

<sup>b</sup>Department of Chemistry, Faculty of Science, Gonbad Kavous University, P.O.Box 163, Gonbad, Iran.

<sup>c</sup>Research Center for Conservation of Culture Relics (RCCCR), Research institute of Cultural Heritage & Tourism, Tehran, Iran.



## Green synthesis of isoquinoline derivatives using

pp 2633-2637

### multicomponent reaction of phthalaldehyde

Maryam Sabbaghan<sup>\*a</sup>, Hossein Karami<sup>b</sup> and Zinatossadat Hossaini<sup>\*b</sup>

<sup>a</sup>Chemistry Department, Faculty of Sciences, Shahid Rajaee Teacher Training University, P.O. Box 16785-163, Tehran, Iran

<sup>b</sup>Department of Chemistry, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran

