

## A Novel One Pot Synthesis Of Symmetric Dialkyl 2 5 Bis 2

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In this study, a novel one-pot synthesis route with (NH 4) 2 S 2 O 8 as sulfate agent to synthesize sulfated zirconia (SZ) will be developed. The novelty of the study includes (1) the SZ samples synthesized present the tetragonal structure of zirconia, (2) more sulfur species will be attached on the surface of zirconia in the synthesis process, (3) in using the new catalysts to produce ...

### A novel one-pot synthesis of tetragonal sulfated zirconia ...

A new copper-catalyzed one-pot reaction resulted in the practical synthesis of imidazolinones in moderate yields from esters. The use of inexpensive copper iodide as the catalyst, (NH 4) 2 CO 3 as the nitrogen source and readily available starting materials makes this process economically viable. Applying this protocol to the synthesis of GSK2137305, a concise approach was developed to obtain GSK2137305 from the ester in only three steps with an overall yield of 26.9%.

### Novel one-pot synthesis of imidazolinones from esters: a ...

**ABSTRACT. ABSTRACT.** We demonstrated a novel, facile, high-yield, and efficient one-pot approach for the synthesis of symmetrically disubstituted ureas from isocyanates in the presence of trimethylsilanol. This novel protocol boasts the use of inexpensive reagents, operational simplicity, excellent yields of products, environmentally friendly conditions, and easy workup.

### Novel one-pot synthesis of symmetrically substituted ureas ...

The diversity of biological activities and the lack of a mild method of synthesis gave us an impulse to the development of a convenient synthetic route for the thieno[3,2-b]pyridine system. In this context, we have developed a novel one pot method for the first synthesis of 2-aryl-7-methoxy-3-hydroxythieno[3,2-b]pyridines in a domino fashion.

### A novel one-pot synthesis of 7-methoxy-2-arylthieno[3,2-b ...

11-(1H-Pyrrol-1-yl)-11H-indeno[1,2-b]quinoxaline and 3-(1H-pyrrol-1-yl)indolin-2-one derivatives have been synthesized in good yields in a novel, one-pot, and efficient process by condensation of 11H-indeno[1,2-b]quinoxalin-11-one or isatin derivatives with 4-hydroxyproline on solid-support montmorillonite K10 under microwave irradiation.

### A Novel One-Pot Synthesis of Some New Interesting Pyrrole ...

**T1 - Novel one-pot synthesis of thiophenols from related triazenes under mild conditions.** AU - Khazaei, Ardeshir. AU - Kazem-Rostami, Masoud. AU - Moosavi-Zare, Ahmadreza. AU - Bayat, Mohammad. AU - Saednia, Shahnaz. PY - 2012. Y1 - 2012. N2 - In this work, at first, triazenes were synthesized from primary aryl amines.

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A novel one-pot pseudo-five-component synthesis of 4,5,6,7-tetrahydro-1H-1,4-diazepine-5-carboxamide derivatives starting from simple and readily available inputs including 2,3-diaminomaleonitrile, a cyclic or acyclic ketone, an isocyanide, and water in the presence of a catalytic amount of p-toluenesulfonic acid in aqueous medium at ambient temperature in high yields is described.

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Described is a simple one-pot route for the synthesis of hierarchically porous carbon supported palladium (Pd/C) monoliths with a three-dimensional pore network via self-assembly under basic conditions of a resol polymer.

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The third section describes the extension of this methodology for the synthesis of indolines and 2,3-dihydrobenzofurans by intramolecular cross-coupling with pendant N- or O-nucleophiles. In addition to the synthesis of small libraries of heterocycles, this one-pot process was used as the key reaction in the 8-step total synthesis of neolignan natural product, (+)-obtusafuran.

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We here realize a highly efficient synthesis, i.e., one-pot synthesis, of dual supramolecular associative copolymers, by using a novel acrylate monomer (coded as 4PyA) bearing urethane and pendant pyridine groups. In the RAFT copolymerization of 4PyA and ethyl acrylate (EA), the radical reactivity ratios of both 4PyA and EA are analyzed to be close to 1.

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**A Novel and Efficient One-Pot Synthesis of 2-Aminopyrimidinones and Their Self-Assembly** Morteza Bararjanian Peptide Chemistry Research Group, K. N. Toosi University of Technology, P.O. Box 15875-4416 Tehran, Iran (fax: +98-21-22853650)

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Thus, the one pot synthesis of the title compound was achieved via the N-(2-oxo-1,2-disubstituted-ethylidene)-amide intermediate, which was generated in situ by the condensation of amides with 1, 2-dicarbonyl compounds in presence of base.

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A novel ternary Fe3N/Fe2O3/C3N4 photocatalyst was prepared from cheap raw materials. The interfacial Fe3N regions act as electron mediator and bandgap modifier. The mechanism of RhB photodegradation was well discussed based on EPR experiments. The ternary Fe3N/Fe2O3/C3N4 photocatalyst showed efficient photocatalytic CH4 evolution performance.

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A facile and one-pot protocol for the synthesis of 2-alkylthio-1,3,4-oxadiazoles is reported. This green method relies on the reaction of acid hydrazides with CS2 and an alkyl halide. The reaction is carried out under mild and environmentally friendly procedure in water with high to excellent yields. Thirteen different valuable alkylthio-1,3,4-oxadiazoles are synthesized from cheap and easily ...

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