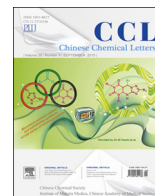




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## Original Articles

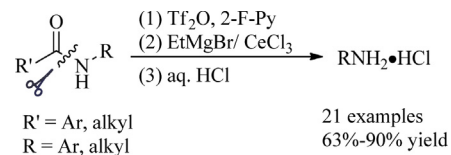
### Mild *N*-deacylation of secondary amides by alkylation with organocerium reagents

Ai-E Wang, Zong Chang, Yong-Peng Liu, Pei-Qiang Huang

Department of Chemistry, College of Chemistry and Chemical Engineering, and Fujian Provincial Key Laboratory of Chemical Biology, Xiamen University, Xiamen 361005, China

Using organocerium reagents as alkylation reagents, the deprotection of secondary amides were achieved under mild conditions to yield the corresponding amine hydrochloride salts in good yields.

Chinese Chemical Letters 26 (2015) 1055



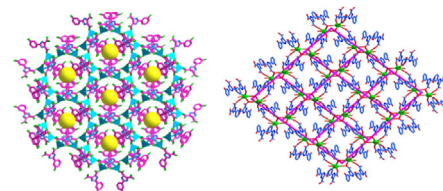
### Preparations and characterizations of two MOFs constructed with hydroxyphenyl imidazole dicarboxylate

Ji-Feng Wang, Bing-Bing Shi, Gang Li

College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou 450001, China

Using the hydrothermal reactions of Mn(II) and Ba(II) salts with 2-(3-hydroxyphenyl)-1*H*-imidazole-4,5-dicarboxylic acid (*m*-OHPh<sub>3</sub>IDC), two novel metal-organic frameworks, have been synthesized and structurally characterized.

Chinese Chemical Letters 26 (2015) 1059



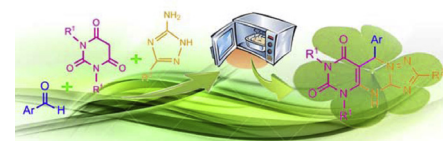
### Improved microwave-assisted catalyst-free synthesis of 9-aryl-5,9-dihydropyrimido[4,5-*d*][1,2,4]triazolo[1,5-*a*]pyrimidine-6,8(4*H*,7*H*)-dione derivatives

Mahnaz Farahi, Bahador Karami, Zohreh Banaki

Department of Chemistry, Yasouj University, Yasouj 75918-74831, Iran

A microwave-assisted regioselective synthesis of 9-aryl-5,9-dihydropyrimido[4,5-*d*][1,2,4]triazolo[1,5-*a*]pyrimidine-6,8(4*H*,7*H*)-diones has been described via the one-pot reaction of 3-amino-1*H*-1,2,4-triazoles, aromatic aldehydes and barbituric acid derivatives under solvent- and catalyst-free conditions.

Chinese Chemical Letters 26 (2015) 1065



## Particulate capillary precolumns with double-end polymer monolithic frits for on-line peptide trapping and preconcentration

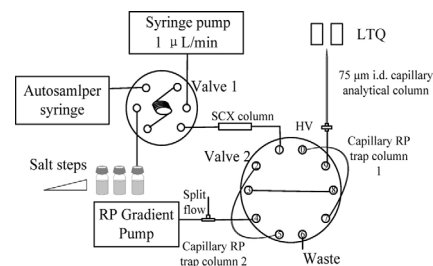
Si-Min Xia<sup>a,b</sup>, Hui-Ming Yuan<sup>b</sup>, Zheng Liang<sup>b</sup>, Li-Hua Zhang<sup>b</sup>, Yu-Kui Zhang<sup>b</sup>

<sup>a</sup>University of Chinese Academy of Science, Beijing 100039, China

<sup>b</sup>National Chromatographic R&A Center, Dalian Institute of Chemical Physics, The Chinese Academy of Sciences, Dalian 116023, China

2D-nano-SCX-dual capillary trap columns-RPLC-MS/MS platform constructed with double-end polymer monolithic frits capillary precolumns.

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## An on-line solid phase extraction-liquid chromatography tandem mass spectrometry method for the determination of perfluoroalkyl substances in the Antarctic ice core samples

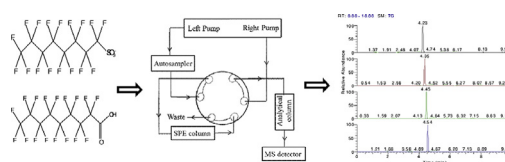
Ya-Li Shi<sup>a</sup>, Yuan-Yuan Pan<sup>b</sup>, Li-Na Liang<sup>b</sup>, Ya-Qi Cai<sup>a</sup>

<sup>a</sup>State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Science, Chinese Academy of Sciences, Beijing 100085, China

<sup>b</sup>Thermo Fisher Scientific (China) Co., Ltd., Beijing 100080, China

An on-line solid phase extraction-high performance liquid chromatography-tandem mass spectrometry method for the analysis of perfluoroalkyl substances (PFASs) was developed, and it is especially suitable for the analysis of trace components in extremely valuable samples in remote areas, such as Antarctic and Arctic areas.

Chinese Chemical Letters 26 (2015) 1073



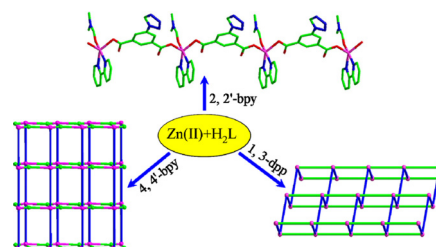
## Zinc(II) coordination architectures based on 5-(1H-tetrazol-1-yl) isophthalic acid: Synthesis, structures and luminescent properties

Shu-Ming Zhang, Gui-Xiang Wang, Peng Guo, Yu-Huan Chen

School of Chemical Engineering and Technology, Hebei University of Technology, Tianjin 300130, China

Three novel Zn(II) complexes based on 5-(1H-tetrazol-1-yl) isophthalic acid ( $H_2L$ ), with pyridine-analogs as auxiliary ligands, possessing diverse structures from one-dimensional (1D) to three-dimensional (3D) supramolecular framework, have been constructed, characterized and their luminescence properties have been investigated.

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## Magnetic CuO nanoparticles supported on graphene oxide as an efficient catalyst for A<sup>3</sup>-coupling synthesis of propargylamines

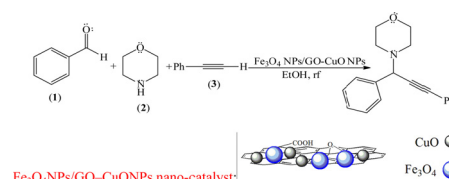
Maryam Mirabedini<sup>a</sup>, Elaheh Motamedi<sup>b</sup>, Mohammad Zaman Kassaei<sup>b</sup>

<sup>a</sup>Department of Chemistry, Tarbiat Modares University, P.O. Box 14155-175, Tehran, Iran

<sup>b</sup>Department of Food Nanotechnology, Research Institute of Food Science and Technology (RIFST), Mashhad 91735-147, Iran

Magnetically separable CuO nanoparticles supported on graphene oxide ( $Fe_3O_4$  NPs/GO-CuO NPs) is synthesized and characterized as an efficient catalyst for the preparation of propargylamines.

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