#### **ARKIVOC Volume 2004**

### Part (ix): Commemorative Issue in Honor of Prof. Chengye Yuan on the occasion of his 80th anniversary

Facilitator: Li Chao-Zhong Scientific Editor: Viktor V. Zhdankin

#### 1. A Tribute to Prof. Chengye Yuan (CY-489LT)

Chaozhong Li

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accepted Nov 21 2003; published Nov 25 2003;

### 2. Solvent-free and aqueous Knoevenagel condensation of aromatic ketones with malononitrile (CY-

1086LP)

Guan-Wu Wang and Bo Cheng

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$$R_1$$
 $R_2$ 
 $CN$ 
 $Solvent-free$ 
 $R_2$ 
 $CN$ 
 $R_2$ 
 $CN$ 
 $R_2$ 
 $CN$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_7$ 
 $CN$ 
 $R_7$ 
 $CN$ 
 $R_8$ 
 $R_9$ 
 $CN$ 
 $R_9$ 
 $R_9$ 
 $CN$ 

1a, 3a:  $R_1$ ,  $R_2$  = Fluorenyl; 1b, 3b:  $R_1$  = Ph,  $R_2$  = CH<sub>3</sub>; 1c, 3c:  $R_1$  =  $R_2$  = Ph

received Feb 28 2004; accepted Apr 26 2004; published May 1 2004;

#### 3. Synthesis and polymerization of perfluoroalkylated 3,4-propylenedioxythiophene (CY-1037LP)

Jian-Hai Dong, Wei-Dong Meng and Feng-Ling Qing

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received Dec 30 2003; accepted Mar 2 2004; published May 14 2004;

#### 4. A convenient synthesis of (E)- $\alpha$ -halo- $\alpha$ , $\beta$ -unsaturated nitriles (CY-1034LP)

Xiaochun Yu and Xian Huang

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$$Ph_{3}P = CHCN \xrightarrow{PhI(OAc)_{2}, HBF_{4}} Ph_{3}P = C \xrightarrow{Ph_{3}P} C \xrightarrow{Ph_{3}P} BF_{4}$$

$$Ph_{3}P = C \xrightarrow{Ph_{3}P} BF_{4} + M^{+}X^{-} + RCHO \xrightarrow{DMF} R.T. \xrightarrow{R.T.} H \xrightarrow{R.T.} CN$$

$$M^{+}X^{-}=R_{4}NX, X=CI, Br, I$$

received Jan 15 2004; accepted May 14 2004; published May 18 2004;

5. Some new observations on an old reaction: disproportionation and the formation of P-O-P intermediates in the Michaelis-Arbuzov reaction of triaryl phosphites with alkyl halides (CY-1133LP)

Harry R. Hudson and Lubomira Powroznyk

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$$(ArO)_{n}PMe_{4-n}\stackrel{-}{X}\longrightarrow (ArO)_{n}P(O)Me_{3-n}$$

$$(ArO)_{3}P + MeX \stackrel{\Delta}{\longrightarrow} (ArO)_{3}P - O - P(OAr)_{2}Me$$

received Feb 23 2004; accepted May 19 2004; published May 21 2004;

6. Further studies on the reductive  $\hat{A}$  – alkylation of chiral *endo*-himimide derived from (R)-phenylglycinol (CY-1121LP)

Jian-Liang Ye, Xu Tang and Pei-Qiang Huang

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received Apr 8 2004; accepted May 27 2004; published Jun 2 2004;

#### 7. One-carbon homologation of aryl and alkyl aldehydes to amides using BtCH<sub>2</sub>P<sup>+</sup>Ph<sub>3</sub>C<sup>-</sup> (CY-1126LP)

Alan R. Katritzky, Rong Jiang, Geoffroy L. Sommen and Sandeep K. Singh

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Bt = benzotriazol-1-yl; 
$$R = R^1 = R^2 = alkyl, aryl$$

received Apr 21 2004; accepted May 28 2004; published Jun 3 2004;

#### 8. Efficient allylation of carbonyl compounds with allyl chlorides in water (CY-1131LP)

Ailing Hui, Xiaolan Xu, Zhenggen Zha, Cunliu Zhou, Zhiyong Wang

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$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_3$ 
 $R_4$ 
 $R_3$ 
 $R_4$ 
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_2$ 
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 $R_8$ 
 $R_8$ 
 $R_8$ 
 $R_8$ 
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 $R_8$ 
 $R_9$ 
 $R_9$ 
 $R_9$ 

received Feb 25 2004; accepted Jun 22 2004; published Jun 23 2004;

#### 9. Trifluoroacetic acid: a unique solvent for atom transfer radical cyclization reactions (CY-1132LP)

Tao Wu, Hui Yu, Chaozhong Li

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pp. 60 - 65

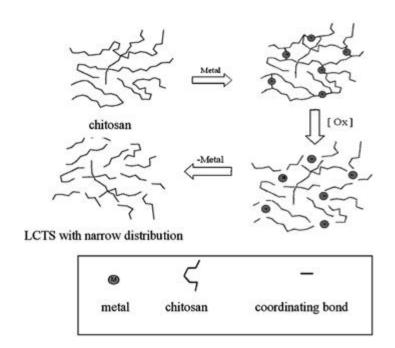
received Apr 30 2004; accepted Jun 30 2004; published Jul 7 2004;

## **10.** Metal-coordinating controlled oxidative degradation of chitosan and antioxidant activity of chitosan-metal complex (CY-1087LP)

Xueqiong Yin, Xiaoli Zhang, Qiang Lin, Yuhong Feng, Wenxia Yu and Qi Zhang

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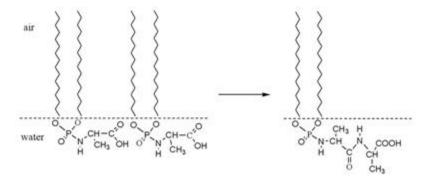
received Feb 29 2004; accepted Jun 20 2004; published Aug 3 2004;

## **11.** Polycondensation of *N*-(*O*,*O*-di-*n*-hexadecyl)phophorylalanine at the air/water interface (CY-1096LP)

Wang Haiyan, Li Yanmei, Xiao Yi, Yu Zhiwu, Zhao Yufen and Wu Lixin

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received Mar 17 2004; accepted Jul 30 2004; published Aug 5 2004;

# 12. EtN=P(NMe<sub>2</sub>)N=P(NMe<sub>2</sub>)<sub>3</sub>: An efficient non-ionic base catalyst for the isomerization of allylic compounds and methylene-interrupted dienes (CY-1148LP)

Wei Wu and John G. Verkade

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received May 27 2004; accepted Sep 3 2004; published Sep 4 2004;

## 13. Density functional theory studies of $\beta$ -substituent effect on conformational preference and anion binding ability of calix[4]pyrroles (CY-1155LP)

Di-Fei Wang and Yun-Dong Wu

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### 14. Cyclopalladated ferrocenylimines: highly active catalysts for Suzuki-Miyaura reaction (CY-1208LP)

Yangjie Wu, Liangru Yang, Jinli Zhang, Min Wang, Liang Zhao, Maoping Song and Junfang Gong Full Text: PDF (64K)

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