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

Full Text: PDF (94K)

pp. 1 - 3

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

Full Text: PDF (91K)

pp. 4 - 8

$$R_1$$
 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 = CH₃; 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

Full Text: PDF (104K)

pp. 9 - 14

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

4. A convenient synthesis of (E)- α -halo- α , β -unsaturated nitriles (CY-1034LP)

Xiaochun Yu and Xian Huang

Full Text: PDF (154K)

pp. 15 - 18

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

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

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

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

Full Text: PDF (162K)

pp. 19 - 33

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

Full Text: PDF (652K)

pp. 34 - 43

a. R=Me; b. R= Et; c. R= n-Bu; d. R=n-C₇H₁₅; e. R=i-Bu; f. R=Ph

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

7. One-carbon homologation of aryl and alkyl aldehydes to amides using BtCH₂P⁺Ph₃C⁻ (CY-1126LP)

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

Full Text: PDF (167K)

pp. 44 - 51

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

Full Text: PDF (112K)

pp. 52 - 59

$$R_1$$
 R_2
 R_3
 Cl
 Cl
 Cl
 Cl
 Cl
 R_1
 R_2
 R_3
 R_4
 R_2
 R_3
 R_4
 R_3
 R_4
 R_3
 R_4
 R_4
 R_3
 R_4
 R_5
 R_5
 R_5
 R_6
 R_7
 R_8
 R_8

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

Full Text: PDF (98K)

pp. 60 - 65

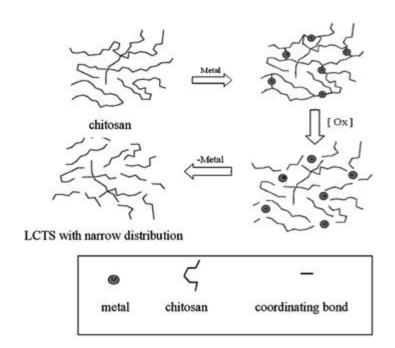
received Apr 30 2004; accepted Jun 30 2004; published Jul 7 2004;

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

Full Text: PDF (338K)

pp. 66 - 78



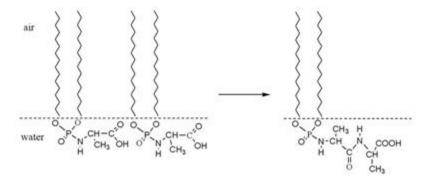
received Feb 29 2004; accepted Jun 20 2004; published Aug 3 2004;

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

Full Text: PDF (153K)

pp. 79 - 87



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

12. EtN=P(NMe₂)N=P(NMe₂)₃: An efficient non-ionic base catalyst for the isomerization of allylic compounds and methylene-interrupted dienes (CY-1148LP)

Wei Wu and John G. Verkade

Full Text: PDF (77K)

pp. 88 - 95

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

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

Di-Fei Wang and Yun-Dong Wu

Full Text: PDF (374K)

pp. 96 - 110

received May 31 2004; accepted Sep 3 2004; published Sep 19 2004;

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)

pp. 111 - 121

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