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Youji Huaxue

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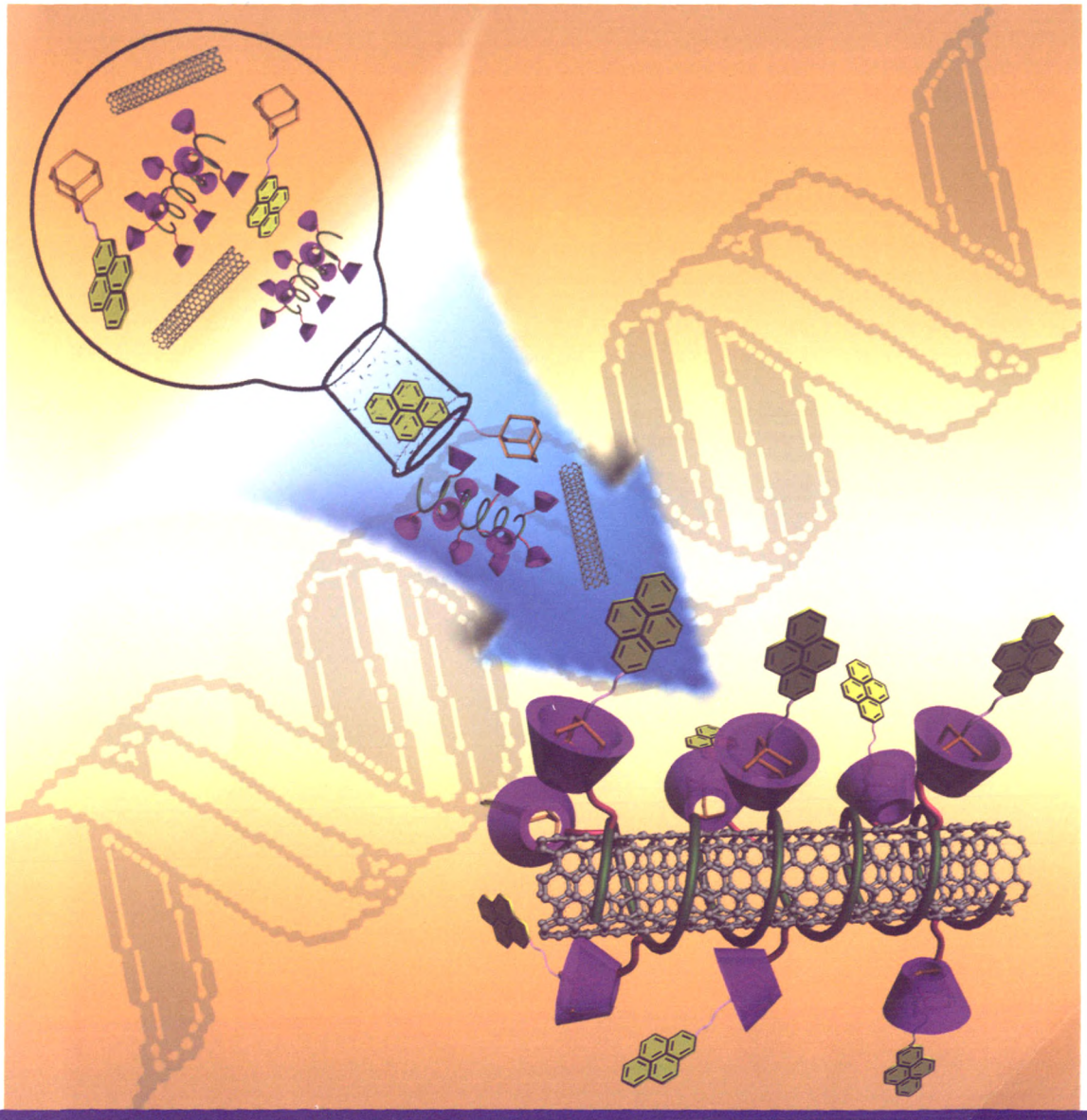

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目 次

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学术动态

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On the Cover

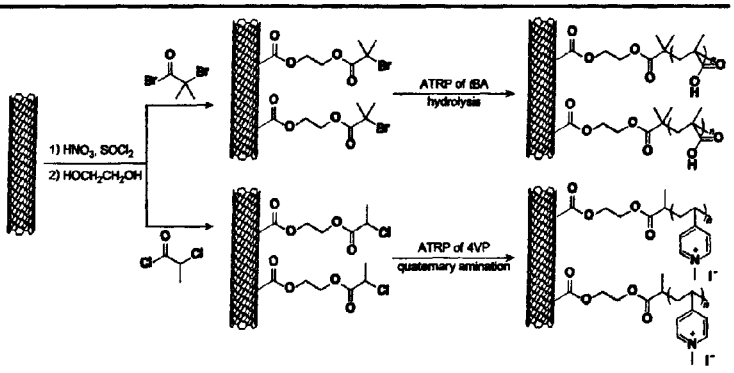
From a series of cyclic oligosaccharides named cyclodextrins, various supramolecular assemblies such as cyclodextrin polypseudorotaxane, cyclodextrin/gold nanoparticle assembly, cyclodextrin/fullerene assembly, cyclodextrin/carbon nanotube assembly, can be constructed through judicious design and exhibit good to excellent activity of interacting with nucleic acids. Chen and Liu summarize their recent endeavors and related works by other investigators on the interactions of cyclodextrin supramolecular assemblies with nucleic acids on page 805.

REVIEWS

CONTENT

ARTICLES

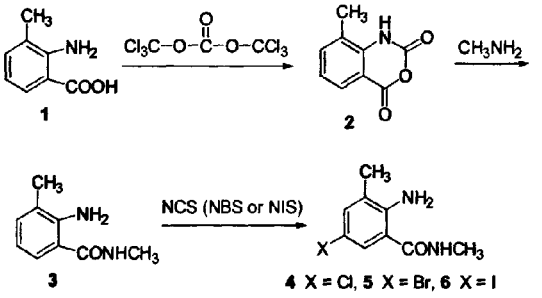
Preparation of Polyelectrolyte Functionalized Multiwalled Carbon Nanotubes via Surface-Initiated ATRP



Different types of polyelectrolyte-functionalized multiwalled carbon nanotubes (MWNT) with good water dispensability were prepared via surface-initiated ATRP of *tert*-butyl acrylate or 4-vinylpyridine onto the surface of MWNT following corresponding hydrolysis (or quaternary amination) of the grafted polymers. The content of the polymer can be tuned through the feed ratio of monomer to the initiating-sites on MWNT.

Sun, Qingwen; Yu, Ying; Zhang, Nan; Zhang, Fayong*
Chin. J. Org. Chem. **2012**, *32*(5), 889

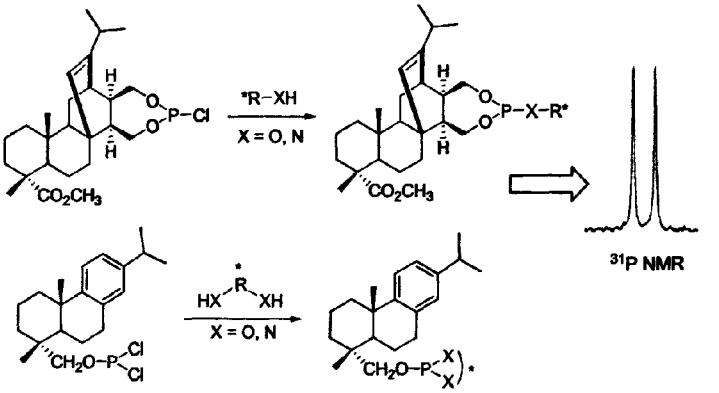
One-Pot Synthesis of 2-Amino-5-halogenated-*N*,3-dimethylbenzamides



The synthetic method of 2-amino-5-halogenated-*N*,3-dimethylbenzamide (**4**~**6**) is reported from 2-amino-3-methylbenzoic acid by three steps in one-pot. This whole process does not need to separate the middle product, and the needlelike crystals of the target product can be directly separated from water after evaporating the organic solvent under reduced pressure. The overall yield was 87%~94%, at least 30% higher than using the substep methods which reported by early literatures.

Qin, Weiyan*; Liu, Bo; You, Jun; Ma, Jing; Li, Xiang; Lü, Chengcheng
Chin. J. Org. Chem. **2012**, *32*(5), 896

Synthesis of Rosin Derived Chiral Derivatizing Agents for ^{31}P NMR Assays of Amine or Alcohol and Amino Alcohol Enantiomers



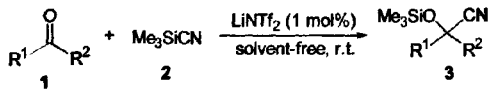
Rosin derived chiral derivatizing agents for *ee* determination.

Wu, Qiang; Yao, Guiyang; Zhu, Yongtao; Wang, Hengshan*; He, Chunhuan; Pan, Yingming*
Chin. J. Org. Chem. **2012**, *32*(5), 900

CONTENT

NOTES

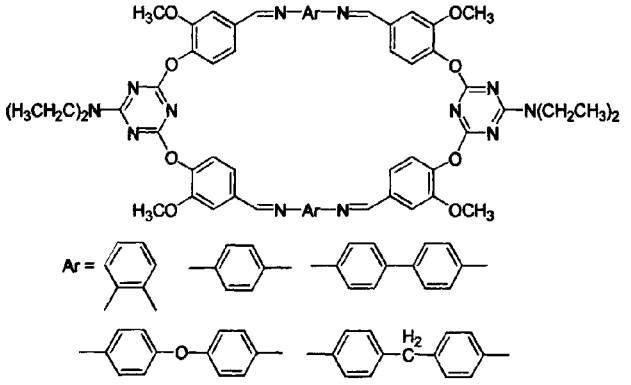
Solvent-Free Achiral Cyanosilylation of Aldehydes and Ketones Catalyzed by $LiNTf_2$



An efficient method for the addition of trimethylsilyl cyanide (TMSCN) to various aldehydes and ketones has been described using $LiNTf_2$ (1 mol%) as a catalyst at room temperature under solvent-free conditions. The advantages of this method are easy work-up, mild reaction conditions, high yields and the catalyst exhibited remarkable reusable activity.

Wang, Hongshe*; Zeng, June
Chin. J. Org. Chem. **2012**, *32*(5), 934

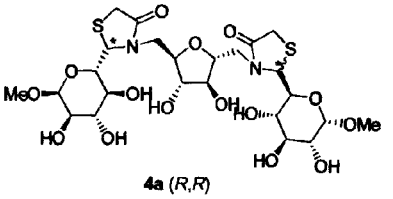
Synthesis and Characterization of Novel Schiff Base Macrocyclic Compounds of 1,3,5-Triazine



Several novel Schiff base macrocyclic compounds of 1,3,5-triazine were synthesized from cyanuric chloride, diethylamine, vanillin, *o*-phenylenediamine, *p*-phenylenediamine, benzidine, 4,4'-diamino-ether, 4,4'-diamino-diphenyl methane by substitution and cyclization. The studies on the UV-Vis absorption spectroscopies show that Schiff base **3b** has a selective recognition for Cu^{2+}, and **3a**, **3c** for Fe^{3+}

Li, Xiaoan; Hua, Chengwen*; Gou, Xiaofeng; Zhao, Junlong; Chen, Bang
Chin. J. Org. Chem. **2012**, *32*(5), 939

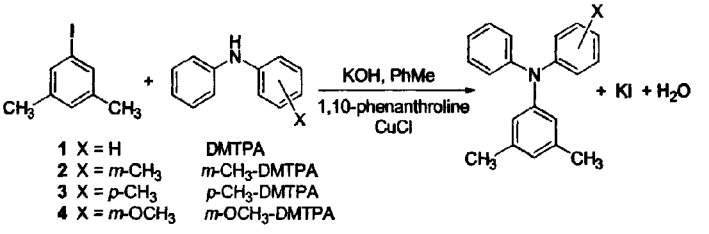
Synthesis and Proliferative Effects on T Lymphocytes of Novel Thiazolidin-4-one Linked Pseudotrisaccharides



Novel thiazolidin-4-one-linked pseudotrisaccharides **4a** and **4b** were synthesized by the one-pot tandem Staudinger/aza-Wittig/cyclization and their effects on T-cell proliferation were evaluated.

Chen, Hua; Gao, Fang; Yin, Qingmei; Li, Chunxiao; Li, Na; Meng, Ming; Li, Xiaoliu*
Chin. J. Org. Chem. **2012**, *32*(5), 943

Synthesis, Characterization and Properties of Some Novel Structural Asymmetric Triarylamines



Four structural asymmetric triarylamines were synthesized by diarylamines and 3,5-dimethyl-iodobenzene as the starting materials using Ullmann reaction. The structures of the target compounds were characterized by IR, ^1H NMR, ^{13}C NMR, HRMS and elemental analysis. The optical, electrochemical, and thermal properties were examined. The results indicated that the synthesized compounds emitted green fluorescence in chloroform, and exhibited a good electrochemical and thermal stability. The synthesized triarylamines are potential hole-transporting materials and green-light-emitting materials.

Li, Yingjun*; Zhao, Nan; Li, Lina; Li, Chunyan; Sun, Shuqin; Zhou, Xiaoxia
Chin. J. Org. Chem. **2012**, *32*(5), 949

CONTENT

REPORT

HIGHLIGHTS