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APPLIED CHEMISTRY

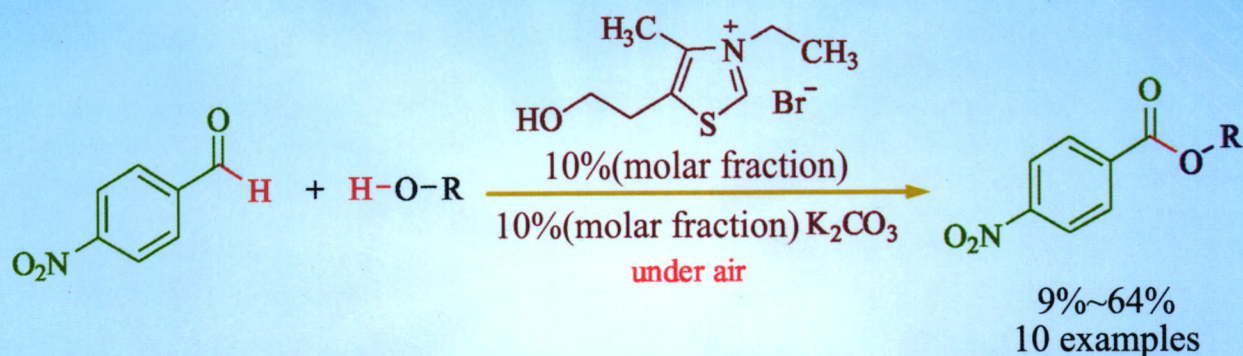
应用化学

Yingyong Huaxue

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p-Nitrobenzaldehyde was oxidized to corresponding *p*-nitrobenzoate catalyzed by *N*-heterocyclic carbene(NHC) using only air as oxidant. Various alcohols, including poor nucleophilic hexafluoroisopropanol and sterically hindered benzhydrol, were investigated stoichiometrically or used as solvent.

应用化学

(Yingyong Huaxue)

第 31 卷 第 2 期 2014 年 2 月



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Research Progress of Nanocomposite Membrane in the Membrane Separation

WANG Xida, WANG Zhining^{*}, GAO Congjie

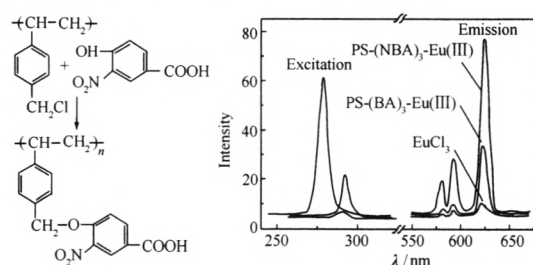
2014,31(2):123-132

Full Papers

Synthesis of Benzoic Acid Derivative-Bonded Polystyrene Ligand and Photoluminescence Properties of Its Complex with Eu(III) Ion

XU Zeqing, GAO Baojiao^{*}, HOU Xiaodong

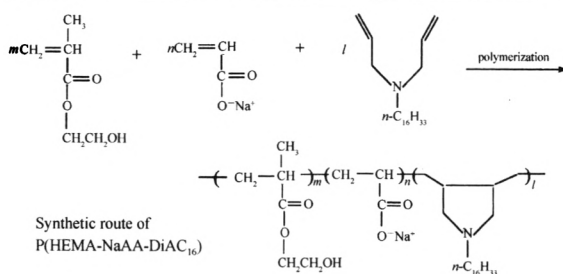
2014,31(2):133-139



Synthesis and Swelling Properties of Hydrophobically Modified pH Sensitive Hydrogels P(HEMA-NaAA-DiAC₁₆)

GENG Tongmou^{*}, ZHANG Xia

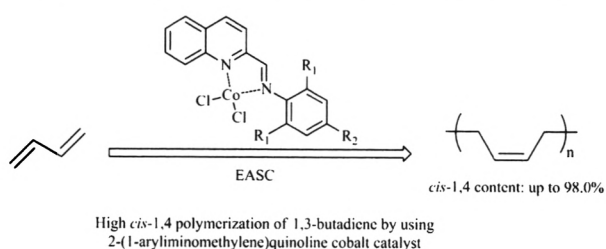
2014,31(2):140-146



Cis-1,4 Selective Polymerization of 1,3-Butadiene Catalyzed by Cobalt Complexes Bearing 2-(1-Aryliminomethylene)quinolines

JIA Xiangyu, LIU Heng, ZHANG Xuequan^{*}

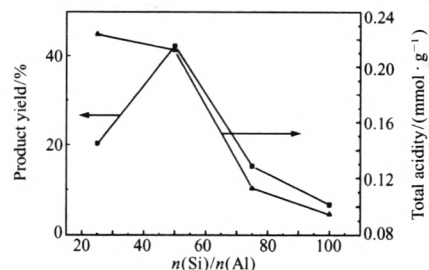
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Synthesis of Bisphenol F Catalyzed by Aluminum-grafted MCM-41 Mesoporous Molecular Sieve

XIE Mingyu, LI Ruofei, JIA Xue, TIAN Lili, XIA Xiannian *

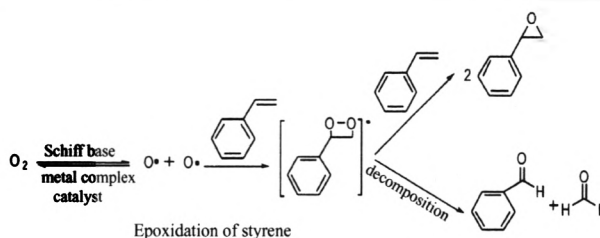
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Catalytic Performance of Cobalt-Schiff Base-Chitosan/attapulgite for Epoxidation of Styrene

FENG Huixia *, GAO Xiaohong, CHEN Nali, DUAN Lingling, ZHANG Juan, LI Hanfeng

2014,31(2):159-164

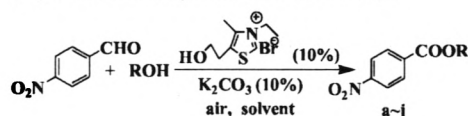


N-Heterocyclic Carbene Catalyzed Oxidative Esterification of para-Nitrobenzaldehyde

SU Ce *, XIA Shujiao, WANG Rui

2014,31(2):165-170

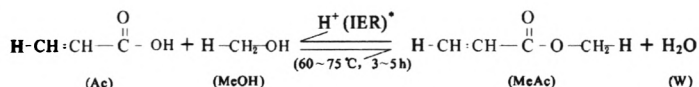
N-heterocyclic carbene catalyzed oxidative esterification of *p*-nitrobenzaldehyde and alcohol in the air.



Kinetic Study of the Esterification of Acrylic Acid with Methanol Catalyzed by Strong-acid Cation Exchange Resin

PAN Jijia, ZHANG Beike *, LU Bingnan

2014,31(2):171-176

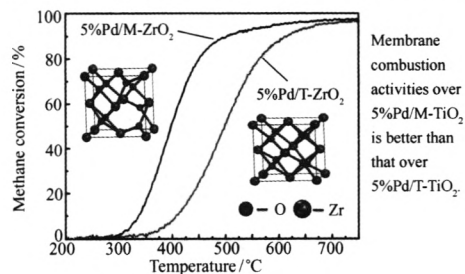


Methyl acrylate was synthesized from acrylic acid and methanol by using strong-acid cation exchange resin, Amberlyst-15, as catalyst and hydroquinone as polymerization inhibitor. This method has been widely applied in industry. Its reaction rate is mainly affected by temperature, acid to methanol ratio and amount of catalyst

Effect of Different Zirconia Phase on Methane Combustion Activity and Stability over Pd/ZrO₂

PAN Xiqiang, YANG Xiangguang *

2014,31(2):177-181

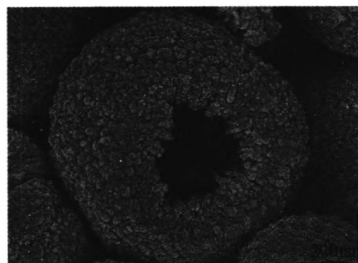


Membrane combustion activities over 5%Pd/M-TiO₂ is better than that over 5%Pd/T-TiO₂.

Preparation and Catalytic Activity of Zinc Oxide Hollow Microspheres

LAI Lifang *, JI Yunzhou, YANG Qian, Li Zhanfeng, RONG Hongren, LIU Qi *

2014,31(2):182-187

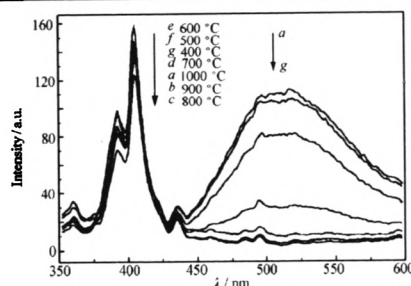


ZnO hollow microspheres with good catalytic activity toward ammonium perchlorate decomposition were synthesized by a facile solvothermal method.

Effects of Calcination Temperature on Crystallization and Optical Properties of ZnO Powder

ZHAO Haigang, LI Caihong*, WANG Hongqiang, LI Ru, ZHANG Guanghui

2014,31(2):188-192

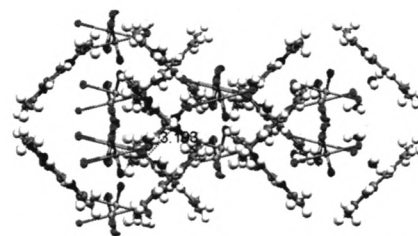


Fluorescence spectra of ZnO powders obtained from different calcination temperature

Synthesis, Structure, Electrochemical, Fluorescent Property and Photocatalytic Activity of Uranium(VI) Hybrid Supramolecules

WANG Juan*, QI Xiaoting, LI Ziyang*, HE Fulan, ZHU Wenhua, GUO Jian

2014,31(2):193-199

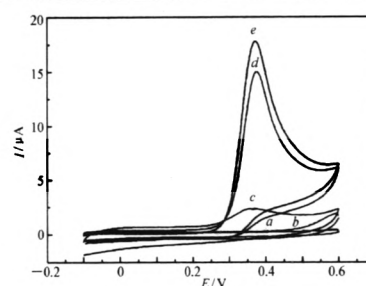


3D structure of uranium(VI) hybrid supramolecules with photocatalytic activity

Electrochemical Activities of 8-Hydroxydeoxyguanosine in Chitosan/Graphene Modified Glassy Carbon Electrode and Detection of DNA Oxidative Damage

AN Lingling, LU Maofeng, DENG Lingling, DU Jiangyan*

2014,31(2):200-205

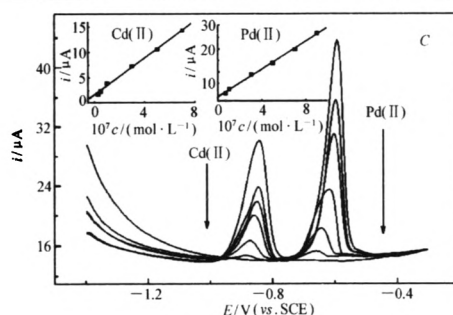


CVs of 8-OHdG show increasing peak current on chitosan/graphene modified GCE.

Determination of Pb(II), Cd(II) with Melamine Chelating Resin/Multi-walled Carbon Nanotubes Composites Modified Waxed Graphite Electrode

XU Siyuan, LEI Ping, JIN Guanping*

2014,31(2):206-211

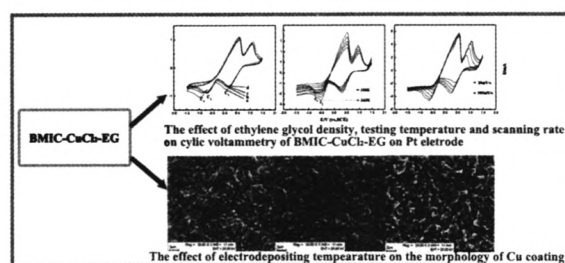


DPSVs of different concentration of Pb(II)-Cd(II) mixture at MFT/MWCNTs/WGE.

Electrodeposition Behaviors of Copper in Ionic Liquid

GAO Wei, LIU Ruiquan*, MI Hongyu

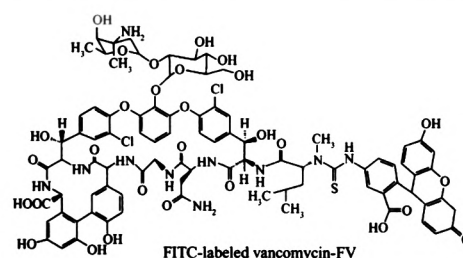
2014,31(2):212-219



Synthesis of Fluorescein Isothiocyanate-labeled Vancomycin and Its Bacterial Detection by Fluorescence

XU Rong, RUAN Lin'gao, GE Mei, ZHANG Yixuan*

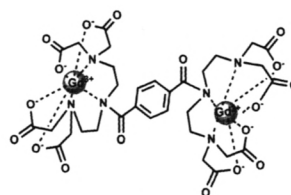
2014,31(2):220-224



Synthesis and Relaxation Properties of a Binuclear Gadolinium (III) Polyaminocarboxylates Magnetic Resonance Imaging Contrast Agent

ZHAO Guiyan, XU Jingwei* , YANG Wei*

2014,31(2) :225-230

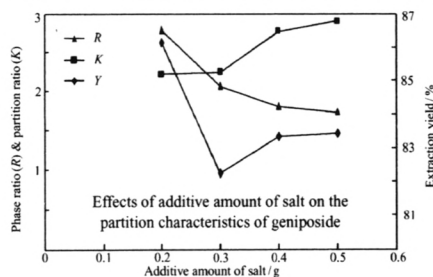


The longitudinal relaxivity of $Gd_2(TP(DTTA))_2$ is 21.7 L/(mmol·s) (20 MHz, 37 °C, pH=7), which is almost twice as high as that of the previously reported dinuclear DTTA-based agents.

Partition Characteristics of Geniposide in Inducing Phase Separation of Acetonitrile Aqueous Solution System

SHENG Bi, CHEN Zhi, LI Hongzhou, CHEN Bo*

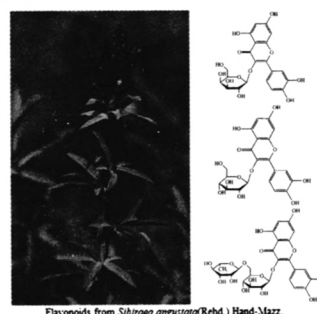
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Determination of the Chemical Constituents in Aqueous Alcohol Extract of *Sibiraea Angustata* (Rehd.) Leaf Hand-Mazz.

YAN Zhihui, CHEN Lishu, ZHU Tongfei* , JIANG Ke* , CHEN Zhu, YANG Yongjian, WANG Dacheng

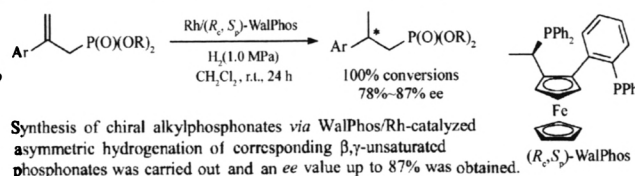
2014,31(2) :237-241



Communications

Rh-catalyzed Asymmetric Hydrogenation of β,γ -Unsaturated Phosphonates with WalPhos Ligands

DUAN Zhengchao* , WANG Lianzhi, ZUO Xiaoyu, QU Taoli, HU Xiangping* , ZHENG Zhuo



2014,31(2) :242-244

* To whom correspondence should be addressed

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