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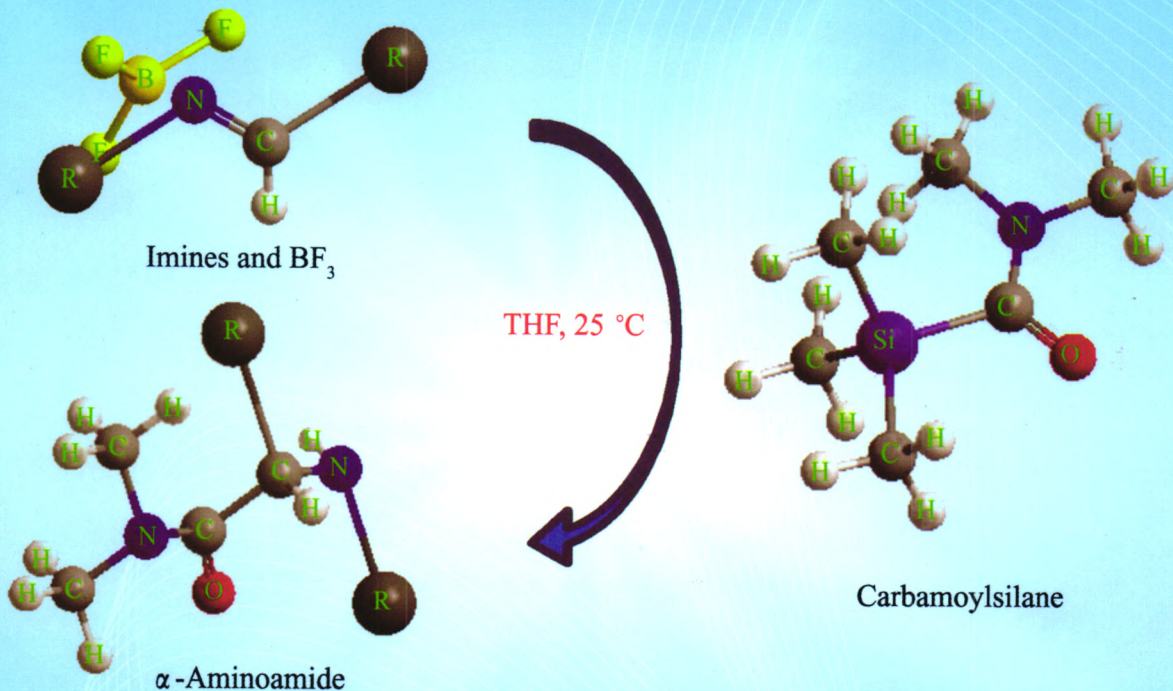
应用化学

Yingyong Huaxue

2013

Volume 30 Issue 10

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A new reaction type, the reaction of aldehyde imines with a carbamoylsilane in the presence of BF_3 etherate affords α -aminoamide



万方数据

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应用化学

(Yingyong Huaxue)

第 30 卷 第 10 期 2013 年 10 月



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* 通讯联系人.

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GUO Wenyan, CHEN Jianxin*

A new reaction type, the reaction of aldehyde imines with a carbamoylsilane in the presence of BF_3 etherate affords α -aminoamide.

For details see pp1114-1119

Review

Novel Polyurethane Materials and Their Applications in Warship

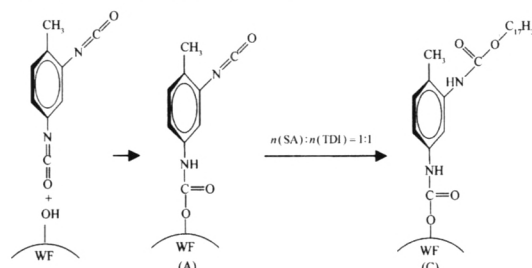
BAO Haige, HUAN Yan, LIU Jia, WANG Jie*, YANG Xiaoniu*

2013, 30(10):1099-1106

Full Papers

Effects of the Molar Ratios of Stearic Acid/Isocyanate on the Properties of Polypropylene/Wood Flour Composites

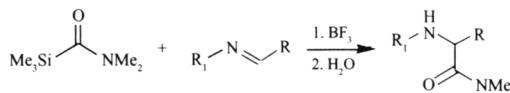
ZHU Deqin, SHENG Yu*, SU Xiaofen, ZOU Yinjiang



2013, 30(10):1107-1113

A New Method for Synthesizing α -Aminoamide Compounds

GUO Wenyan, CHEN Jianxin*

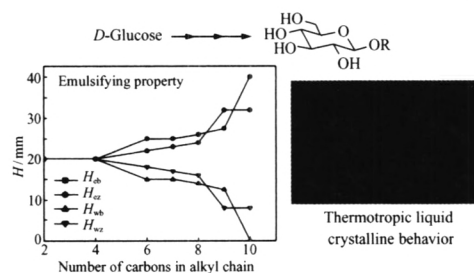


Carbamoylsilane can react with imines catalyzed via boron trifluoride etherate of form α -aminoamides. The stereoselective product was obtained by connecting chiral alkyl both on the *N*-terminus of the iminium structure and on the *N*-terminus of carbamoylsilane.

2013, 30(10):1114-1119

Syntheses and Properties of Alkyl β -D-Glucopyranosides

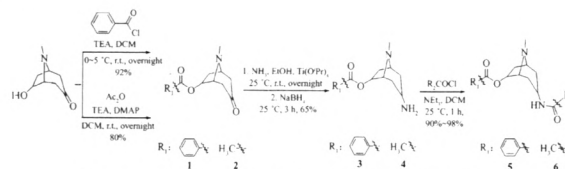
LIU Dengfeng, CHEN Langqiu*, LI Hongwei, ZENG Sen, KUANG Na, TIAN Jing



2013, 30(10):1120-1126

Synthesis and Antidiabetic Activity of Tropinone Derivatives

XIE Zhaoyang, LI Zhiwei, BAO Zhichao,
WANG Jiangnan, YIN Peng, HE Kan,
YAN Fei, ZHENG Qunyi*

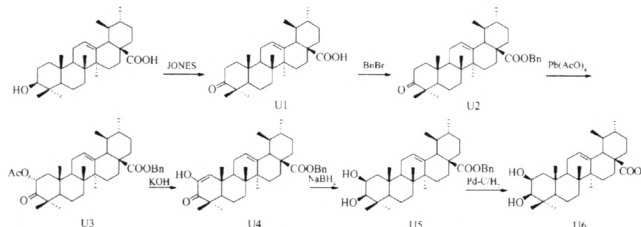


A series of tropinone derivatives has been synthesized and two compounds showed potential antidiabetic activity.

2013, **30**(10) :1127-1132

Synthesis and Antitumor Activity of 2 β -Hydroxyursolic Acid

HUANG Lirong, CHEN Lei, YANG Xiaosheng*,
MA Lin, ZHANG Jianxin, WANG Daoping

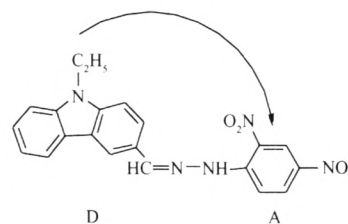


Using ursolic acid as the precursor, 2 β -hydroxyursolic acid with overall yield of 60.1% was synthesized by 6-step successive reactions including oxidation, benzylation, acetylation, hydrolysis, reduction, and group deprotection reactions.

2013, **30**(10) :1133-1138

Synthesis and Luminescence Behavior of a Novel Charge Transfer Compound Containing Carbazole Phenylhydrazone

LI Junfen, LI Jinzeng, ZHANG Caihong, HAN Yuying,
QIN Xi, DONG Chuan*

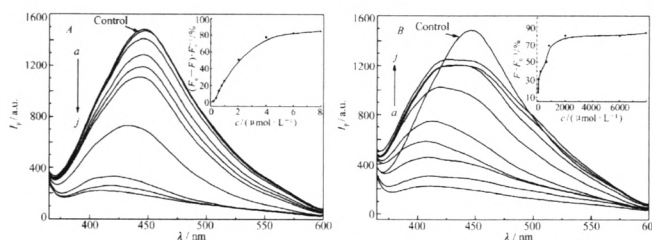


Intramolecular charge transfer of carbazole phenyl hydrazone compound

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Interaction Between Aluminium(III) Cation and Hydroxyl Functionalized Fluorescent Carbon Dots

FANG Jingmei, LIU Liqin, ZHAO Xijuan,
LI Yuanfang*

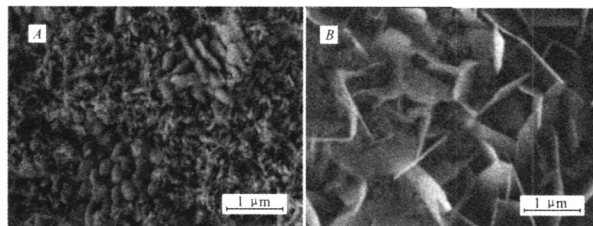


The fluorescence spectra of CDs in the range of low(A) and high(B) concentrations of Al³⁺.

2013, **30**(10) :1144-1148

Preparation and Bioactivity for Inducing Bone Growth of Hydroxyapatite/Fe₂O₃ Composite Coating

LI Longzhu, HUANG Ziyang*, LIN Yan,
CAO Mei, LIN Jianqun

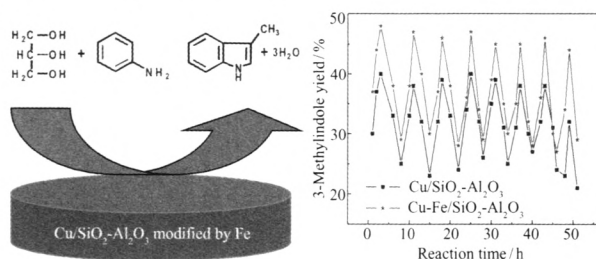


Surface morphologies of HA/Fe₂O₃ composite coating after immersion in 1.5SBF for 7 d(A) and 14 d(B)

2013, **30**(10) :1149-1155

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BAO Zhuoran, HUO Xiaomin, SUN Lidong,
SUN Qi, SHI Lei*

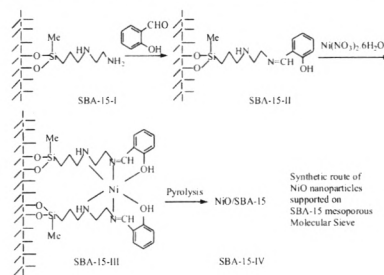


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YU Longbao*, XU Hu, SHI Yayu, ZHANG Wenpeng, YIN Hengbo, ZHANG Xiongfei

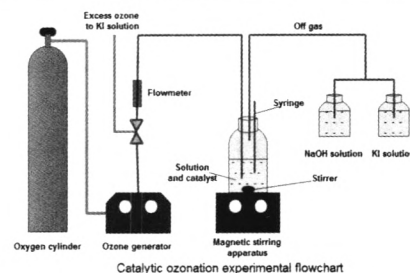
2013, 30(10):1163-1168



Catalytic Ozonation of Textile Dyeing Sludge with Heterogeneous Catalysts of Carbon-supported Transition Metal Compounds

FU Zhenyu, LI Zhiguang, GUO Kai, XIA Xingliang, PENG Haijun, HE Chunlian*

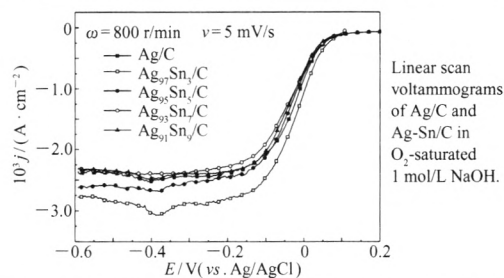
2013, 30(10):1169-1175



Synthesis and Electrocatalysis Activity of Silver-Tin Bimetallic Catalysts for Oxygen Reduction Reaction

TANG Meixiang, YI Qingfeng*

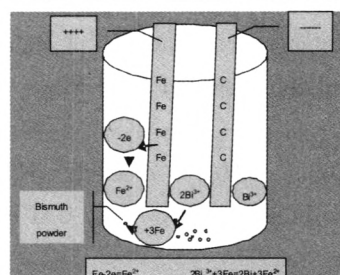
2013, 30(10):1176-1181



Replacement of Sponge Powder Bismuth with Iron Plates Under Micro-current

HE Jing*, GUO Rui, LAN Mingyan, WANG Can, TANG Motang, YANG Jianguang, YANG Shenghai, TANG Chaobo, LU Junle

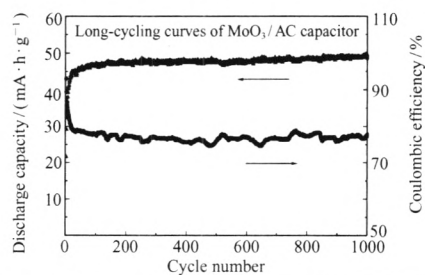
2013, 30(10):1182-1188



Molybdenum Trioxide/Activated Carbon Sodium-ion Electrochemical Capacitors

ZHAO Liping, QI Li, WANG Hongyu*

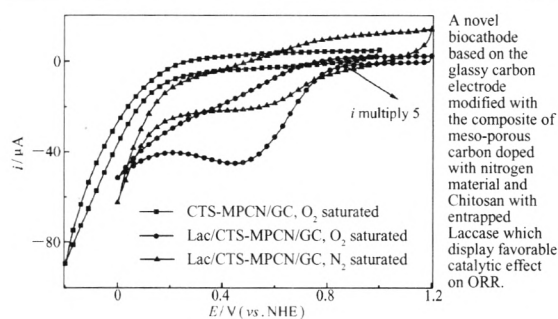
2013, 30(10):1189-1193



Direct Electrochemical Behavior and Sensing Performance of Nitrogen-Doped Meso-Porous Carbon and Chitosan Composite Immobilized with Laccase Modified Electrode

KULISONG Hayierbiek, ZENG Han*

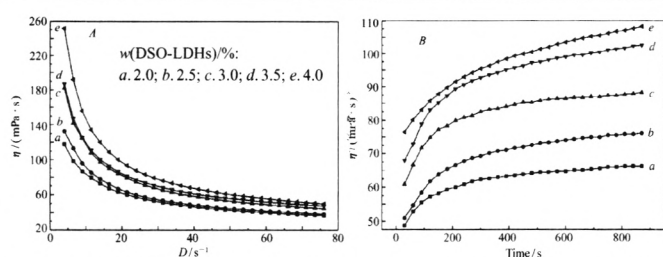
2013, 30(10):1194-1201



Preparation of Dodecyl Sulfonate-Layered Double Hydroxides and Influence on Nicosulfuron Oil Flowable Concentrate Rheological Property

ZHAI Lili, LU Fusui*, XIA Hui, LIAO Kechao

2013, **30**(10) : 1202-1207

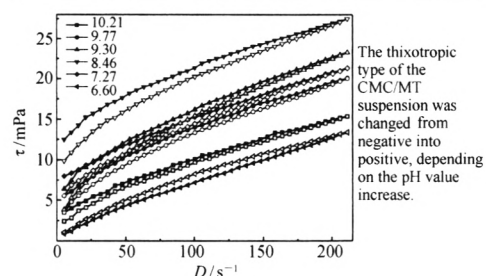


Shear viscosity(A) and thixotropy(B) of 4% nicosulfuron oil flowable concentrate with different mass fraction (w) of DSO-LDHs

Rheologic Property and Influencing Factors of Sodium Carboxymethyl Cellulose/Montmorillonite Suspension

LIAN Yinghui, LI Lifang*, ZHAO Fan, ZHAO Wenjie

2013, **30**(10) : 1208-1214

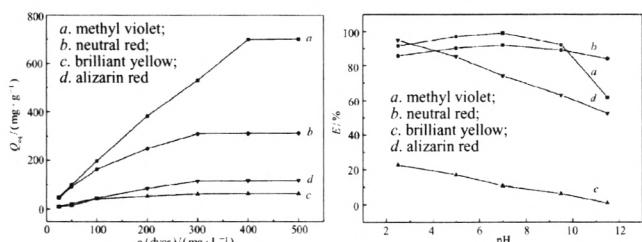


The thixotropic type of the CMC/MT suspension was changed from negative into positive, depending on the pH value increase.

Adsorption-decolorization of Four Ionic Dyes by Carboxylated Graphene

LV Shasha, WEI Jing, JIANG Feng, WANG Sui*

2013, **30**(10) : 1215-1221

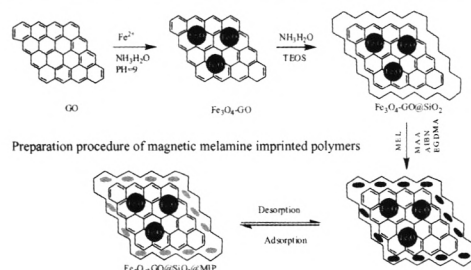


The adsorption characters of carboxyl graphene of four ionic dyes.

Preparation and Application of Melamine Magnetic Molecularly Imprinted Solid Phase Extraction Material

LIU Yunan, ZHANG Zhaohui*, CHEN Xing, CHEN Hongjun, RAO Wei, CAI Rong

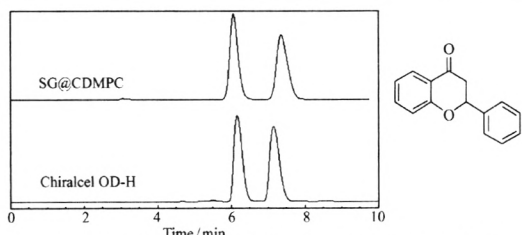
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Preparation and Evaluation of Several Cellulose Ester-Coated Chiral Stationary Phases with Different Supports

GUO Danli, ZHANG Hua, HU Qiuyun, CAI Sanyan, CHEN Ziyun, WENG Wen*

2013, **30**(10) : 1231-1236



Comparison of enantioseparation ability between the homemade CDMPC-coated CSPs and commercial available Chiralcel OD-H columns.

* To whom correspondence should be addressed