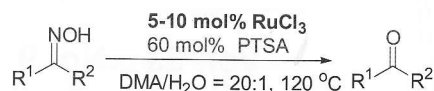


COMMUNICATIONS

1011

**Ruthenium Trichloride Catalyzed Highly Efficient Deoxygenation of Oximes to the Carbonyl Compounds and Nitriles without Acceptors**

Yuxiao Liu, Na Yang, Changhu Chu, Renhua Liu\*

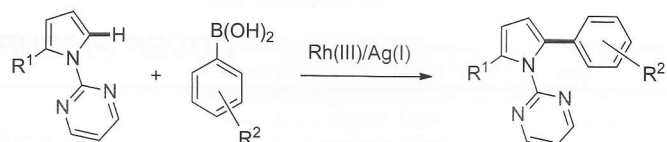


An acceptor-free catalysis protocol for the deoxygenation of ketoximes and aldoximes using RuCl<sub>3</sub> as the catalyst has been developed. Under the optimized conditions, various oximes were converted to ketones and nitriles with excellent isolated yields.

1015

**Highly Efficient Synthesis of Arylpyrrole Derivatives via Rh(III)-Catalyzed Direct C—H Arylation with Aryl Boronic Acids**

Liang Wang,\* Zhan Li, Xing Qu, Wangming Peng\*



- Wide substrates scope
- High efficiency and selectivity
- Mild reaction condition

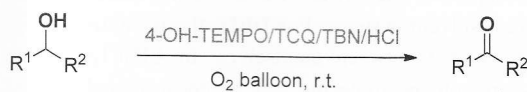
20 examples up to 98% yield

A highly efficient Rh(III)-catalyzed direct C—H arylation of pyrrole derivatives with aryl boronic acids under mild conditions has been developed. The methodology features wide substrate scope and excellent functional group compatibility (20 examples, up to 98% yield).

1019

**4-OH-TEMPO/TCQ/TBN/HCl: A Metal-Free Catalytic System for Aerobic Oxidation of Alcohols under Mild Conditions**

Yanli Dong, Xiaomei Zhao, Renhua Liu\*



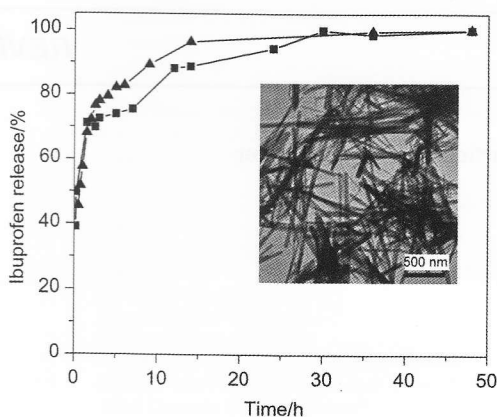
A green and economical catalyst system, 4-OH-TEMPO/TCQ/TBN/HCl, for the aerobic oxidation of a broad range of primary and secondary alcohols to the corresponding carbonyl compounds has been developed. These reactions proceed without transition-metals under mild conditions with excellent yields.

FULL PAPERS

1024

**Synthesis of Hydroxyapatite Nanorods under Mild Conditions and Their Drug Release Properties**

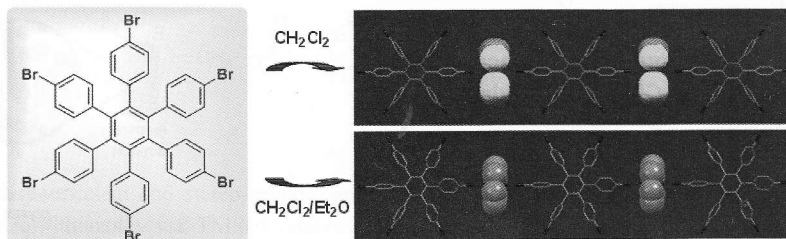
Deyan Kong, Xinli Xiao, Xueying Qiu, Wenbo Zhang, Yulin Yang\*



Hydroxyapatite (HAp) nanorods with high aspect ratio have been successfully synthesized via the hydrolysis of the precursor CaHPO<sub>4</sub> at 60 °C at atmospheric pressure. The as-prepared CaHPO<sub>4</sub> sample using CTAB as surfactant is well crystallized at the first precipitation step. At the second hydrolysis step, the CTA<sup>+</sup> and OH<sup>-</sup> act to control the formation and growth of HAp nanorods. The HAp nanorods modified with suitable surfactants are of great potential applications in drug delivery system.

1031

**Bromine Bonding Induced Selective Recognition of Different Guests for Hexaphenylbenzene Bromides in the Solid State**

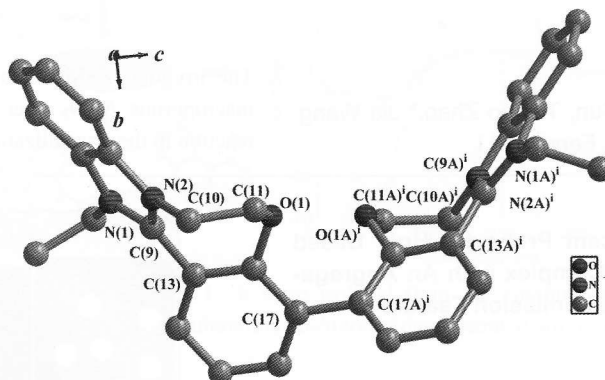


Lianhui Peng, Pengcheng Zhu, Xianggao Meng,\* Chun Zhang\*

Selective recognition of different guests for hexaphenylbenzene bromides in the solid state.

1037

**Preparation and Intramolecular C—C Coupling Reaction for Bis-benzimidazolium Salt**

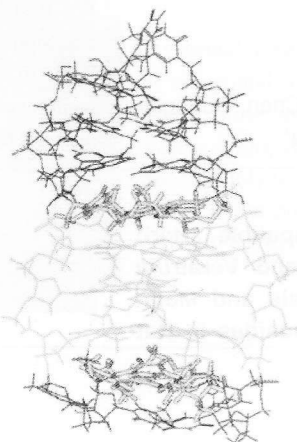


Rui Liu, Ran Huo, Yue Bi, Zhixiang Zhao, Qingxiang Liu\*

One new compound **2** containing two boat-like seven-membered rings was prepared through intramolecular C—C coupling reaction under the catalysis of  $\text{Pd}(\text{OAc})_2$ .

1041

**Non-Flat Bisbenzylisoquinoline Alkaloid Fangchinoline As a Class of Potent G-Quadruplex Stabilizer with Anti-cancer Activity**

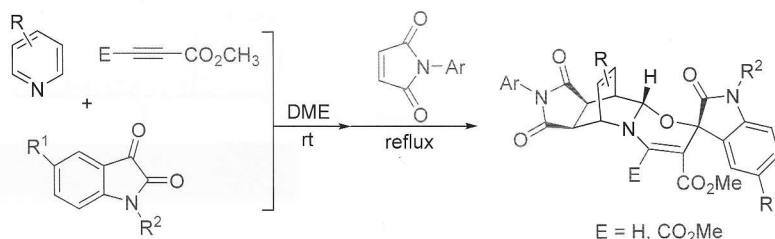


Qian Li, Junfeng Xiang, Yalin Tang\*

Novel non-flat G-quadruplex ligands exhibit good stabilization to G-quadruplex structure. The ligand and the G-quadruplex form a 2 : 1 complex.

1049

**One-pot Two-Step Cycloaddition Reaction for Convenient Synthesis of Polycyclic Spirooxindole-fused [1,3]-Oxazines**



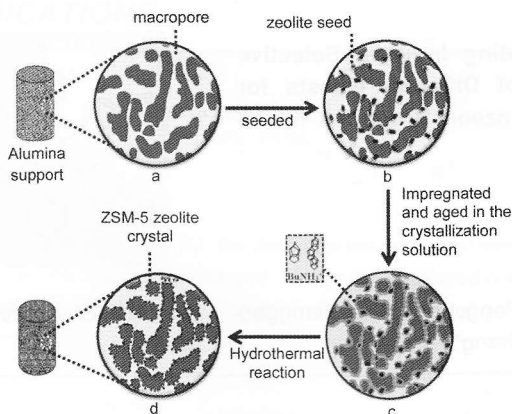
Three-component reactions of substituted pyridines, isatins with methyl propiolate, or dimethyl acetylenedicarboxylate afforded spiro[3*H*-indole-3,2'-[2*H*,9*aH*-pyrido[2,1-*b*]-[1,3]oxazines], which in turn reacted with *N*-arylmaleamide to give novel spirooxindole fused [1,3]oxazines in good yields.

Jing Sun, Hui Gong, Chaoguo Yan\*

# CONTENT

1057

## Preparation of ZSM-5 Coated on Monolithic Interconnected Macroporous $\text{Al}_2\text{O}_3$ Using Cheap *n*-Butylamine as Template

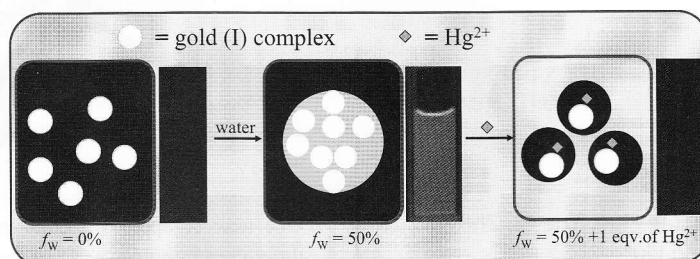


The irregular ZSM-5 zeolites were formed and coated on monolithic interconnected macroporous  $\text{Al}_2\text{O}_3$  after seeding progress and impregnated, aged and hydrothermal reaction in the crystallization solution using *n*-butylamine as template.

Mingliang Sun, Tianbo Zhao,\* Jia Wang, Zhaofei Ma, Fengyan Li

1064

## A Fluorescent Probe for $\text{Hg}^{2+}$ Based on Gold(I) Complex with An Aggregation-Induced Emission Feature

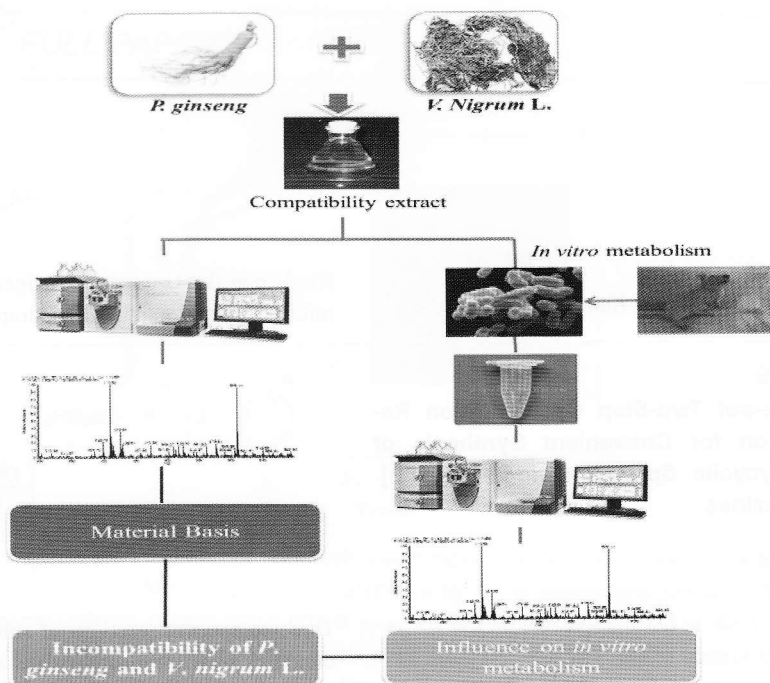


We designed and synthesized a gold(I) complex that exhibited aggregation-induced emission in acetonitrile-water mixtures. It showed high selectivity and sensitivity for  $\text{Hg}^{2+}$  in acetonitrile-water (1 : 1, *V* : *V*) solution. Dynamic light scattering measurements were conducted to verify that the addition of  $\text{Hg}^{2+}$  changed the particle size and induced fluorescence quenching.

Xie Han, Xiaoyi Lü, Zhao Chen, Guangao Yu, Jun Yin, Shenghua Liu\*

1069

## Mechanism of Incompatible Herb Pairs, *Panax ginseng* and *Veratrum nigrum* L.: Material Basis and Metabolic Profiles of Ginsenosides in Rat Intestinal Bacteria

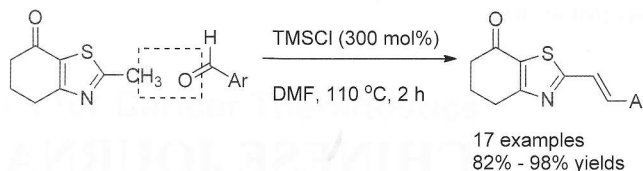


Xiudong Yang, Xue Li, Ying Xu, Zifeng Pi, Na Lin, Zhiqiang Liu, Fengrui Song\*

The mechanism of incompatibility of *P. ginseng* and *V. nigrum* L. was studied from the aspects of substance basis and metabolic profiles using ESI-MS and UPLC-MS<sup>n</sup>.

1077

### TMSCl Promoted Direct $sp^3$ C-H Alkenylation to Construct (*E*)-2-Styryl-tetrahydrobenzo[*d*]thiazoles

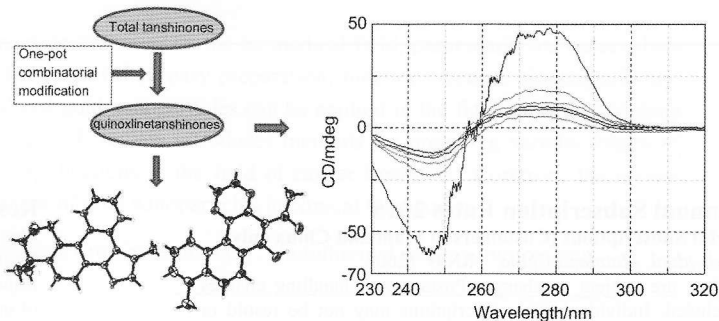


Chengqiao Cao, Wenbin Wang, Fan Zhang, Nianyu Huang,\* Kun Zou

A high-efficient and stereo-specific approach for synthesizing (*E*)-2-styryl-tetrahydrobenzo[*d*]thiazoles via TMSCl-catalyzed direct  $sp^3$  C-H alkenylation of 2-methyl-5,6-dihydrobenzo[*d*]thiazol-7(4*H*)-one under metal-free conditions has been developed.

1084

### Enhancing the Structural Diversity and Bioactivity of Natural Products by Combinatorial Modification Exemplified by Total Tanshinones



Yafang Tan, Xiaohui Sun, Fuyue Dong, Haiyan Tian,\* Renwang Jiang\*

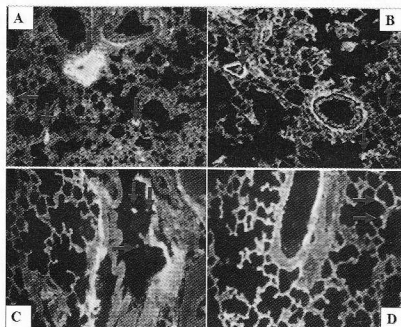
Six new quinoxinetanshinones **1–6** were isolated from the combinatorial modified semi-synthetic mixture. These quinoxinetanshinones demonstrated strong DNA binding properties.

## NOTE

1089

### Identification and Fibrinolytic Evaluation of an Isoindolone Derivative Isolated from a Rare Marine Fungus *Stachybotrys longispora* FG216

Ge Wang, Wenhui Wu, Quangang Zhu, Shiqing Fu, Xiaoyu Wang, Shaotong Hong, Ruihua Guo,\* Bin Bao\*



An isoindolone derivative, Fungi fibrinolytic compound (FGFC1), was isolated from a rare marine microorganism strain *Stachybotrys longispora* FG216 and also evaluated for fibrinolytic activity *in vitro* and *in vivo*. FGFC1 is a potential thrombolytic activity agent in the future.