Chinese Chemical Letters 25 (2014) iii–xii

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Chinese Chemical Letters

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Graphical Abstracts/Chin Chem Lett 25 (2014) iii-xii

Original articles

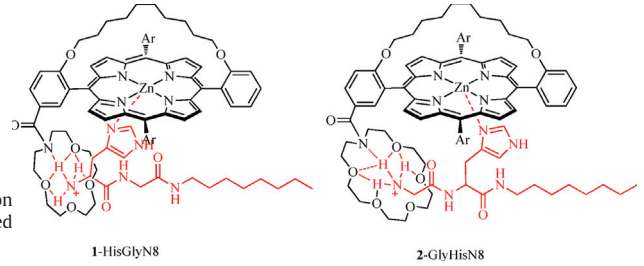
Metalloporphyrin receptors for histidine-containing peptides

Chinese Chemical Letters 25 (2014) 659

Hui Liu[a], Zhan-Ting Li[b]

[a]*Key Laboratory for Green Chemical Process of Ministry of Education, School of Chemical Engineering & Pharmacy, Wuhan Institute of Technology, Wuhan 430073, China*
[b]*State Key Laboratory of Bio-Organic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, China*

Two new ditopic metalloporphyrin receptors, which were constructed by the combination of metalloporphyrin and crown ethers, have been prepared and characterized. They showed length- and sequence-selectivity toward histidine-containing peptides.



Pollution characteristics of ambient $PM_{2.5}$-bound PAHs and NPAHs in a typical winter time period in Taiyuan

Chinese Chemical Letters 25 (2014) 663

Rui-Jin Li[a], Xiao-Jing Kou[a], Hong Geng[a], Chuan Dong[a], Zong-Wei Cai[b]

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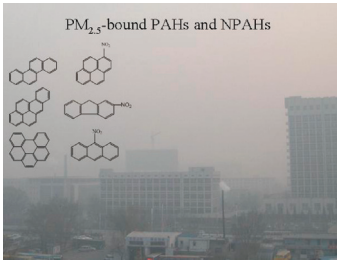
The main source of serious $PM_{2.5}$ pollution in a typical Taiyuan's winter time period was coal combustion. PAHs and NPAHs on the $PM_{2.5}$ may have a significant impact on human health and cancer risk.



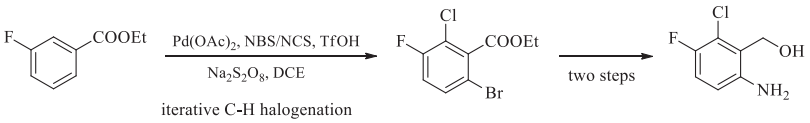
A gram-scale synthesis of multi-substituted arenes *via* palladium catalyzed C—H halogenation

Chinese Chemical Letters 25 (2014) 667

Xiu-Yun Sun, Yong-Hui Sun, Yu Rao

MOE Key Laboratory of Protein Sciences, Department of Pharmacology and Pharmaceutical Sciences, School of Medicine and School of Life Sciences, Tsinghua University, Beijing 100084, China

(6-Amino-2-chloro-3-fluorophenyl)methanol is prepared through both traditional methods and palladium catalyzed iterative C–H halogenation reactions. In comparison to traditional approach, a few advantages of the C–H activation strategy have been summarized.



doi:10.1016/S1001-8417(14)00176-4

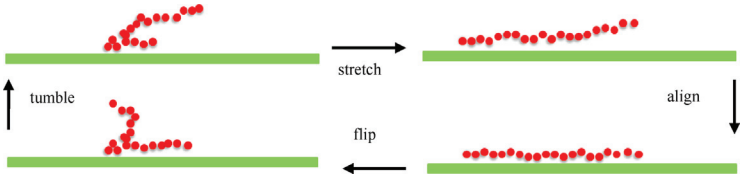
Chinese Chemical Letters 25 (2014) 670

Tumbling dynamics of individual absorbed polymer chains in shear flow

Li-Jun Liu, Wen-Duo Chen, Ji-Zhong Chen, Li-Jia An

State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

Individual absorbed polymers exhibit a tumbling motion in shear flow.



Chinese Chemical Letters 25 (2014) 673

Discovery of dipeptidyl peptidase IV (DPP4) inhibitors based on a novel indole scaffold

Peng-Fei Xiao[a,b], Rui Guo[c], Shao-Qiang Huang[b], Heng-Jun Cui[c], Sheng Ye[c], Zhiyuan Zhang[b]

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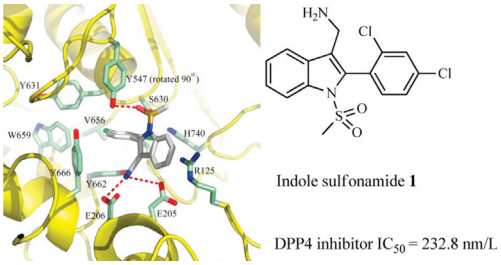
[b]*National Institute of Biological Sciences (NIBS), Beijing 102206, China*
[c]*Life Sciences Institute, Zhejiang University, Hangzhou 310058, China*

The story of our effort in the *de novo* design and development of a series of potent and selective DPP4 inhibitors based on an indole scaffold utilizing structure-based drug design (SBDD) technology.



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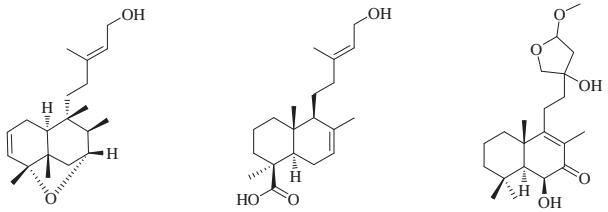
Three new diterpenoids from *Leonurus japonicus*

Zhi-Ke Liu[a,c], Da-Rong Wu[b], Yi-Ming Shi[a,c], Ting Zeng[d], Shao-Hua Liu[b], Xue Du[a], Yong-Jun Dang[d], Wei-Lie Xiao[a], Han-Dong Sun[a]

[a]*State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, China*
[b]*Chengdu No. 1 Pharmaceutical Group Co., Ltd., Chengdu 610031, China*
[c]*University of Chinese Academy of Sciences, Beijing 100049, China*
[d]*Key Laboratory of Molecular Medicine, Ministry of Education, and Department of Biochemistry and Molecular Biology, Fudan University Shanghai Medical College, Shanghai 200032, China*

One unusual clerodane diterpenoid and two new labdane diterpenoids were isolated from the aerial parts of *Leonurus japonicus*.



1 2 3

Chinese Chemical Letters 25 (2014) 680

Fluorescent and thermal properties of siloxane-polyurethanes based on 1,8-naphthalimide

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A series of fluorescent siloxane-polyurethanes containing an amino-functionalized 1,8-naphthalimide fluorescent monomer as a chain extender were synthesized. The incorporation of the novel fluorescent monomer produced substantial changes in the fluorescent and thermal properties of siloxane-polyurethanes.