



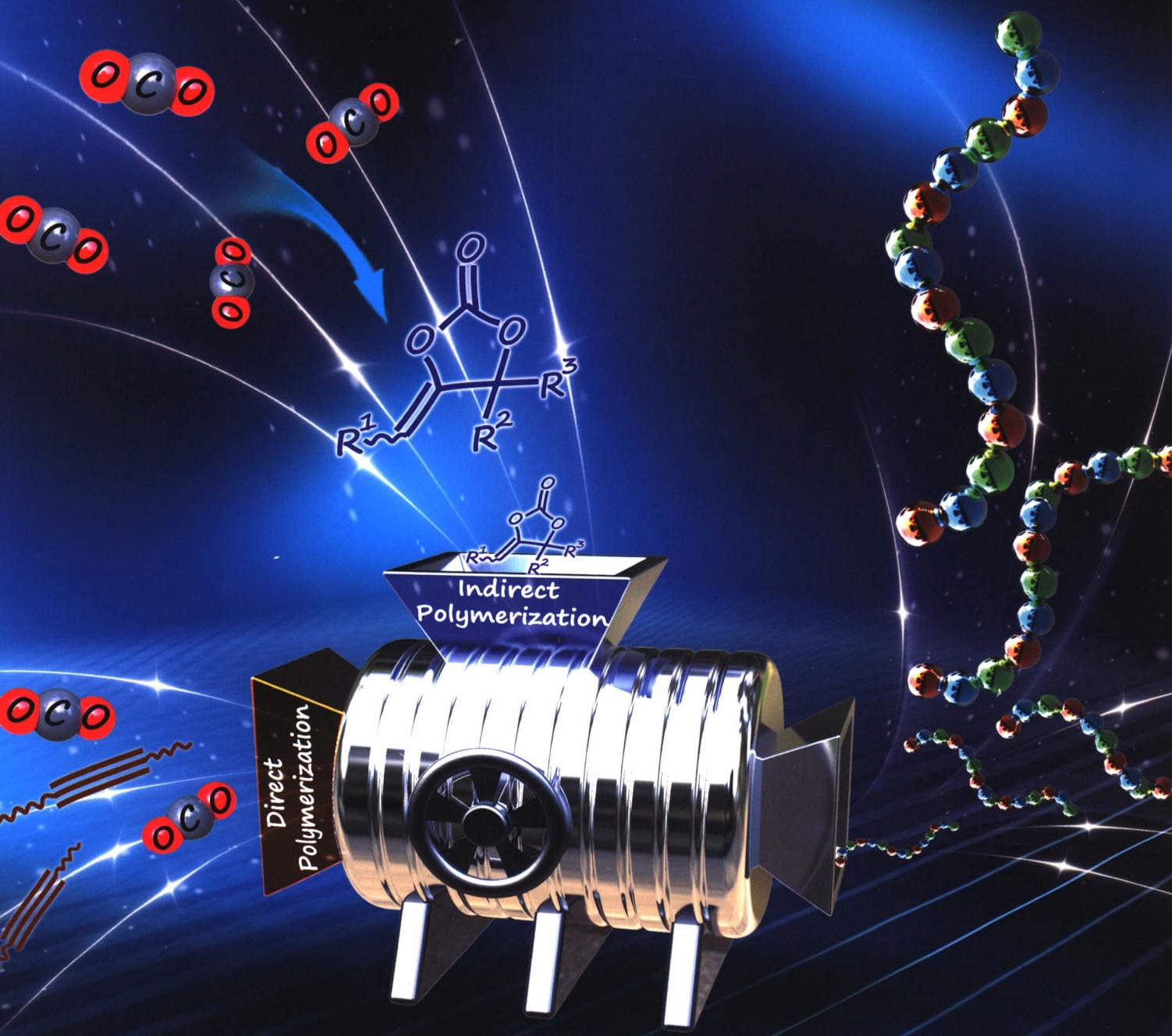
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ACTA CHIMICA SINICA

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主办

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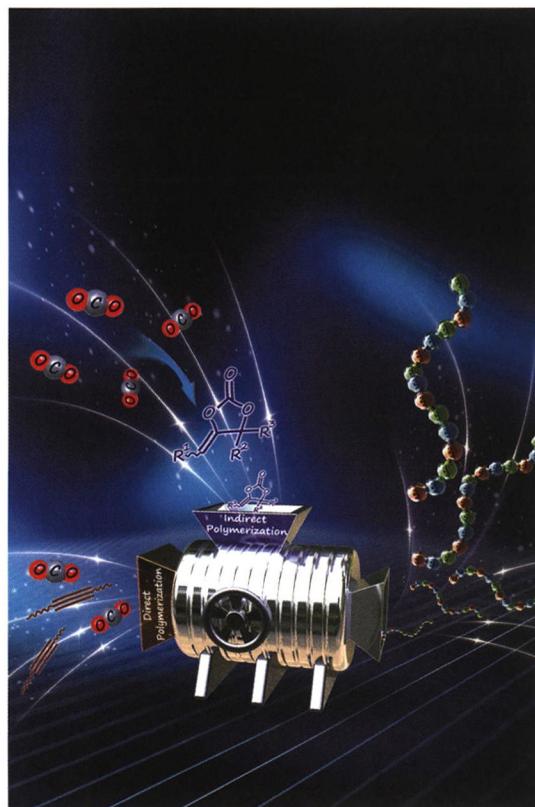
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- 快速合成 Bi@ZIF-8 复合纳米材料用于近红外二区光热治疗以及可控药物释放
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* 通信联系人。

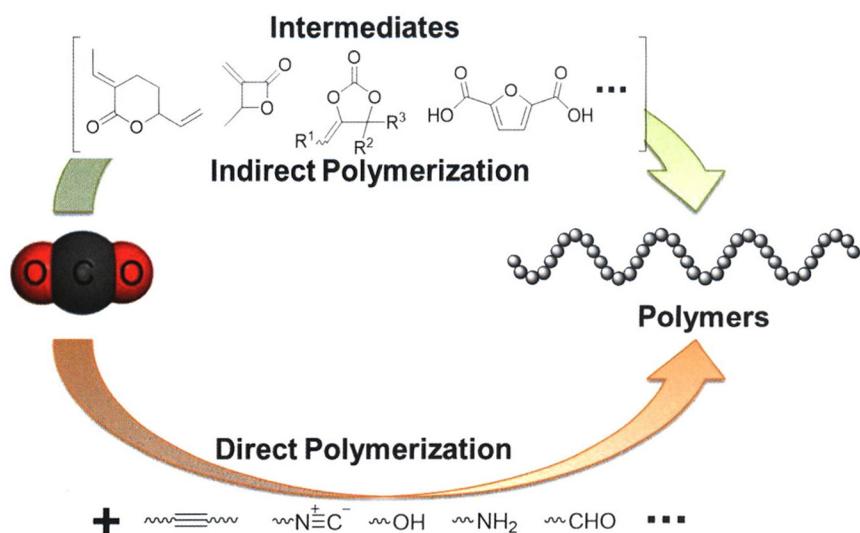
Contents

On the cover: Using the green monomer of CO₂ to prepare polymeric materials has attracted more attention. This review summarizes the advances in converting CO₂ into polymeric materials during the past few years, and discusses the perspective in this area. [Tang, Ben Zhong *et al.* on page 9-22.]



Review

New Polymerizations Based on Green Monomer of Carbon Dioxide

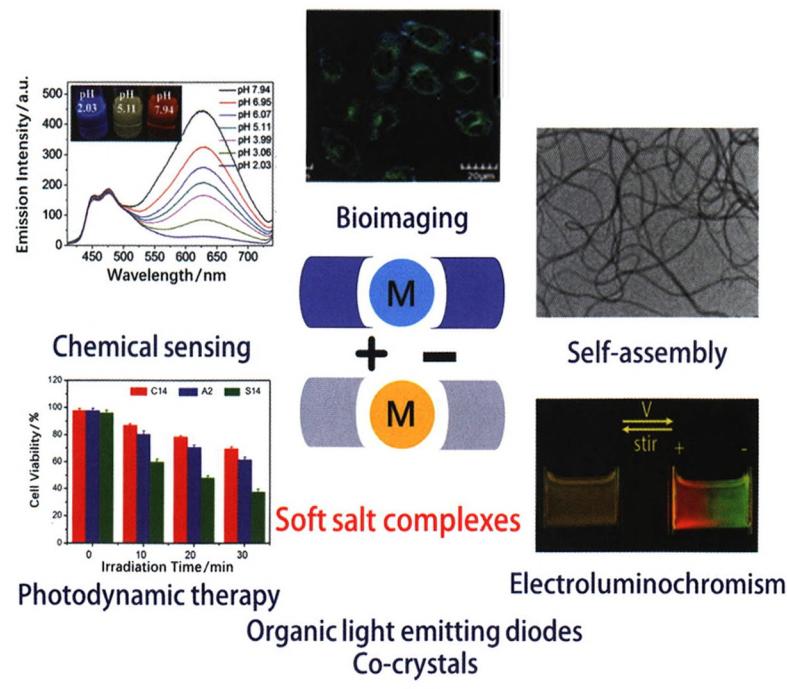


Song, Bo; Qin, Anjun*; Tang, Ben Zhong*

Acta Chim. Sinica 2020, 78(1), 9-22

The recent progress in the polymerizations based on the green monomer of carbon dioxide is summarized in this review, and the perspective in this area is discussed.

Phosphorescent Soft Salt Complexes for Optoelectronic Applications



Ma, Yun; Chen, Kexin; Guo, Zeling; Liu, Shujuan; Zhao, Qiang*; Wong, Wai-Yeung*

Acta Chim. Sinica 2020, 78(1), 23-33

Recently, phosphorescent soft salt complexes have gained an increasing attention and this review aims to summarize the synthesis and photophysical properties of those complexes, and recent advances of them in different optoelectronic applications, including organic light emitting diodes, bioimaging, photodynamic therapy, electrochromic luminescence devices, etc.

Cyclic Lanthanide-based Molecular Clusters: Assembly and Single Molecule Magnet Behavior

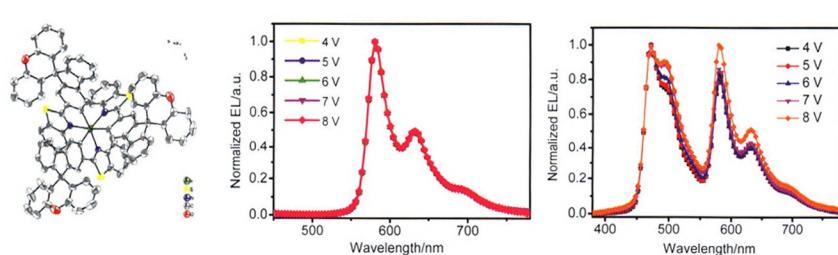


Tian, Haiquan; Zheng, Li-Min*

Acta Chim. Sinica 2020, 78(1), 34-55

Article

Conjugated Regulation of Phosphorescent Iridium (III) Complex Constructed from Spiro Ligand and Its Electroluminescent Performances

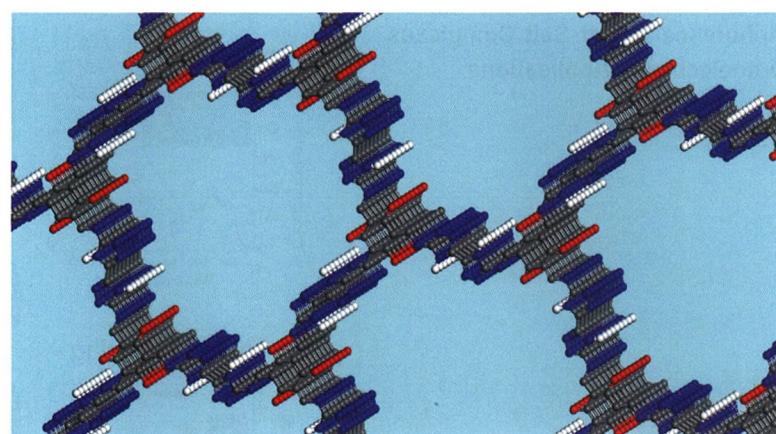


Ren, Bao-Yi; Yi, Jian-Cheng; Zhong, Dao-Kun; Zhao, Yu-Zhi; Guo, Run-Da*; Sheng, Yong-Gang; Sun, Ya-Guang*; Xie, Ling-Hai; Huang, Wei

Acta Chim. Sinica 2020, 78(1), 56-62

A new iridium(III) complex containing spiro ligand is designed and synthesized, and the results of device performances indicate that the complex is a potential phosphor for efficient orange and white organic light-emitting diodes, possessing the advantages of low-cost, suitable doping in high concentration, and stabilized color coordinates.

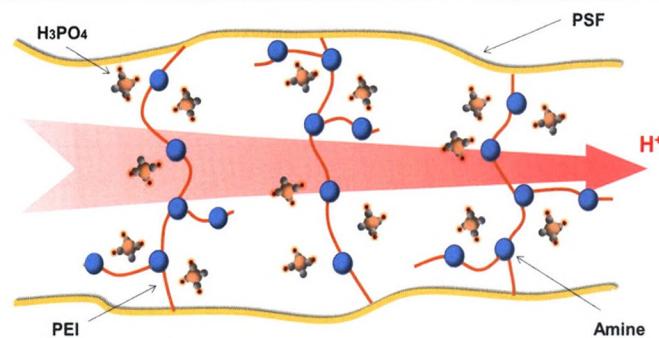
Synthesis of a Two-dimensional Covalent Organic Framework with the Ability of Conducting Proton along Skeleton



Wang, Zhitao; Li, Hui; Yan, Shichen; Fang, Qianrong*

Acta Chim. Sinica 2020, 78(1), 63-68

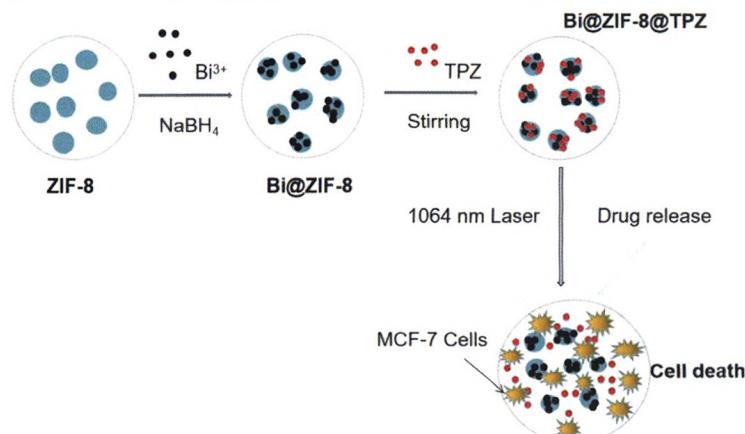
Self-crosslinked Polyethyleneimine-polysulfone Membrane for High Temperature Proton Exchange Membrane



Zhao, Weichen; Xu, Xin; Bai, Huijuan; Zhang, Jin*; Lu, Shanfu*; Xiang, Yan

Acta Chim. Sinica 2020, 78(1), 69-75

Rapid Synthesis of Bi@ZIF-8 Composite Nanomaterials for the Second Near-infrared Window Photothermal Therapy and Controlled Drug Release

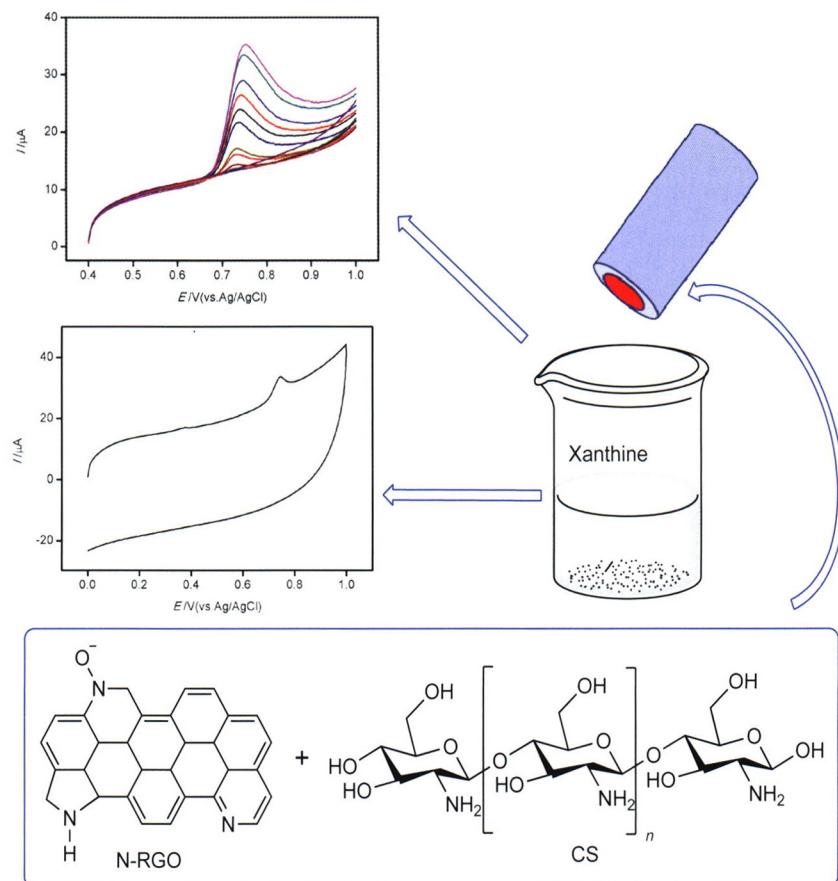


Wang, Yingmei; Zhu, Daoming; Yang, Yang; Zhang, Ke; Zhang, Xiuke; Lv, Mingshan; Hu, Li; Ding, Shuaijie; Wang, Liang*

Acta Chim. Sinica 2020, 78(1), 76-81

The nanomaterial Bi@ZIF-8 which Bi nanoparticles embedded in ZIF-8, was efficiently loaded with the anticancer drug tirapazamine (TPZ) to form a composite nanomaterial Bi@ZIF-8@TPZ. Under acidic and near-infrared two-zone (NIR-II) lighting conditions, controllable release of the drug can be achieved, and good therapeutic effects are approached.

Electrochemical Detection of Xanthine and Study for the Inhibition of Uric Acid Based on Chitosan/Nitrogen Doped Reduced Graphene Oxide Modified Electrode



Song, Guangjie; Wu, Tiaodi; Liu, Fuxin;
Zhang, Binyan; Liu, Xiuhui*

Acta Chim. Sinica **2020**, 78(1), 82-88

A sensitive sensor for xanthine detection is constructed based on chitosan/nitrogen doped reduced graphene oxide (CS/N-RGO). The inhibition for the formation of uric acid by febuxostat and allopurinol was researched by the electrochemical method.

Author Guide *Acta Chim. Sinica* **2020**, 78(1), 89-94

“《化学学报》2018年度最有影响力论文奖”揭晓

为推动促进国内外化学期刊发展、加强化学工作者交流，根据《化学学报》编委会决议，设立“《化学学报》XX 年度最有影响力论文奖”。该奖对获奖人的国籍、居住地、单位、年龄等没有任何限制，由《化学学报》编委会根据文章年度 SCI 引用情况评出（参考影响因子计算规则，兼顾当年发表当年引用情况，按第 n-2 年至第 n 年发表的文章在第 n 年引用情况排序），奖励通信作者荣誉证书、文章第一作者荣誉证书和奖金 1000 元。奖励 10 篇左右。已获奖的论文次年不再重复奖励。

“《化学学报》2018 年度最有影响力论文奖”获奖列表：

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吴文挺，张立明，游书力
DOI: 10.6023/A17020049
金催化去芳构化反应研究进展
化学学报 2017 Vol. 75 (5): 419-438

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贾涛，郑楠楠，蔡万清，应磊，黄飞
DOI: 10.6023/A17030114
基于萘并二酰亚胺的胺基功能化聚合物的三组分一锅法合成及其在聚合物太阳电池中的应用
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DOI: 10.6023/A17050202
直接三氟甲硫基化试剂及方法的研究进展
化学学报 2017 Vol. 75 (8): 744-769

12 次：

余晓叶，周帆，陈加荣，肖文精
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化学学报 2017 Vol. 75 (1): 86-91

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DOI: 10.6023/A17040181
手性磷-烯配体在不对称催化领域的研究进展
化学学报 2017 Vol. 75 (7): 655-670

汤淏淏，霍小红，孟庆华，张万斌
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钯催化的烯丙位 C—H 键官能团化：新催化体系的发展
化学学报 2016 Vol. 74 (3): 219-233

10 次：

钟建基，孟庆元，陈彬，佟振合，吴骊珠
DOI: 10.6023/A16090491
可见光催化的交叉偶联放氢反应
化学学报 2017 Vol. 75 (1): 34-40

竹芯，朱凯，孙邦锦，樊健，周祎，宋波
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9 次：

王少静，李长伟，李锦，陈邦，郭媛
DOI: 10.6023/A17010029
新型香豆素类氟离子荧光探针的合成及细胞成像研究
化学学报 2017 Vol. 75 (4): 383-390

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锂硫电池先进功能隔膜的研究进展
化学学报 2017 Vol. 75 (2): 173-188

王其，程明，曹逸涵，强琚莉，王乐勇

DOI: 10.6023/A15090585
基于双间苯-32-冠-10 空穴超分子组装体的设计与构筑
化学学报 2016 Vol. 74 (1): 9-16