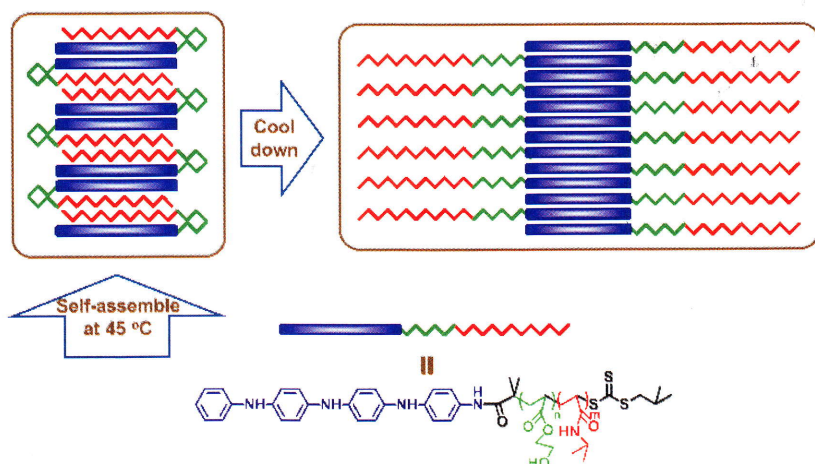


1338

Temperature-induced Transformation from Large Compound Vesicles to Worm-like Aggregates by ABC Triblock Copolymer

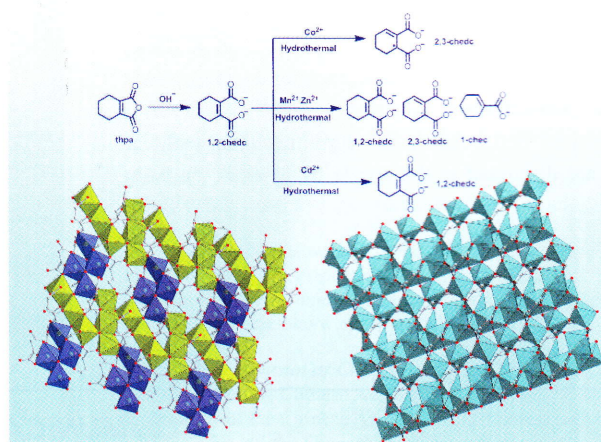


Yupeng Wu, Yangchun Tao, Kuan Cai, Siwei Liu,* Yi Zhang, Zhenguo Chi, Jiarui Xu, Yen Wei

Two triblock polymers, TA-*b*-PNIPAM-*b*-PHEA and TA-*b*-PHEA-*b*-PNIPAM, were synthesized with identical chemical compositions but different connection order. Both of their aggregates have spherical shape assembled at 45 °C. However, when their aggregate dispersion was cooled down to 20 °C, only TA-*b*-PHEA-*b*-PNIPAM's morphology changed, forming worm-like aggregates with the diameter of about 100–200 nm.

1347

Influence of the Metal Ions on the Allylic Rearrangement Reaction of 3,4,5,6-Tetrahydrophthalic Anhydride

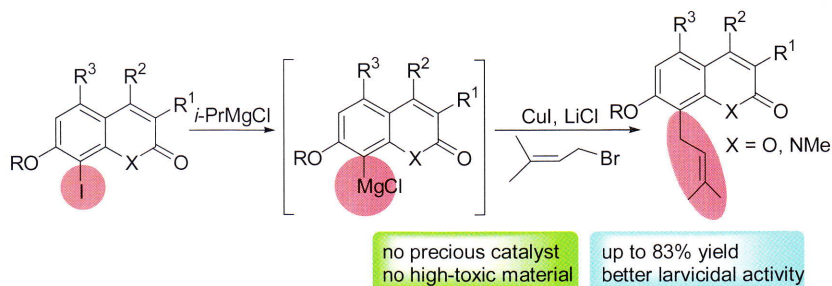


Yuanchao Pang, Yanzhen Zheng*

Metal-dependent hydrothermal reaction products of 3,4,5,6-tetrahydrophthalic anhydride have been reported.

1353

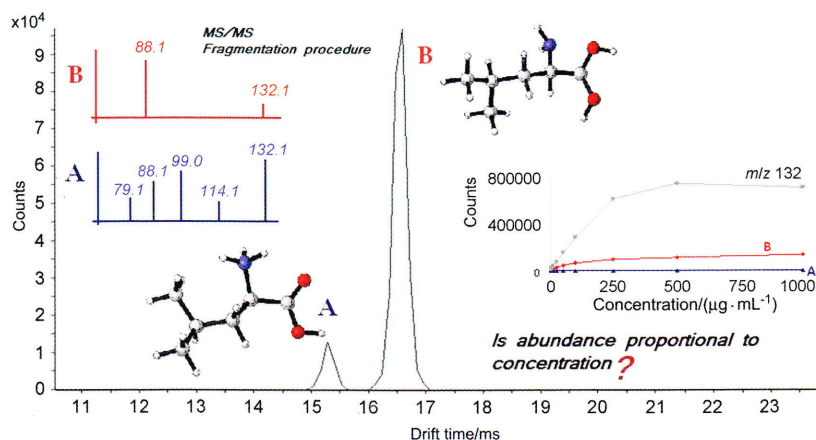
Synthesis of Osthole Derivatives with Grignard Reagents and Their Larvicidal Activities on Mosquitoes



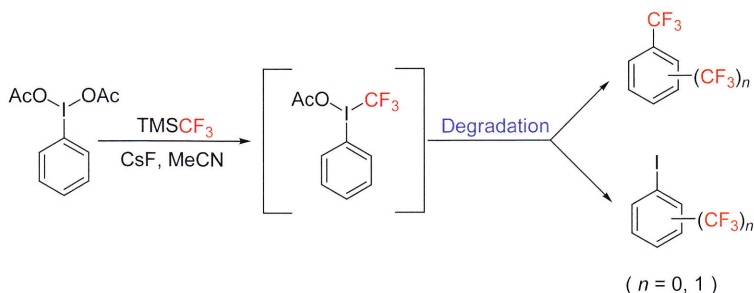
Ming Liu, Yang Liu, Xuewen Hua, Changchun Wu, Sha Zhou, Baolei Wang, Zhengming Li*

CuI and LiCl promoted efficient synthesis of osthole derivatives with Grignard reagents has been developed. Bio-activity evaluation showed that several products exhibited far better larvicidal activities against mosquitoes than osthole.

1359

Behaviors of Leucine and Isoleucine
in Ion Mobility-Quadrupole Time of
Flight Mass SpectrometrySu Guo, Fang Zhang,* Haoyang Wang,
Manyu Zhang, Zhixu Zhang, Xiang
Zhang, Yinlong Guo*

1365

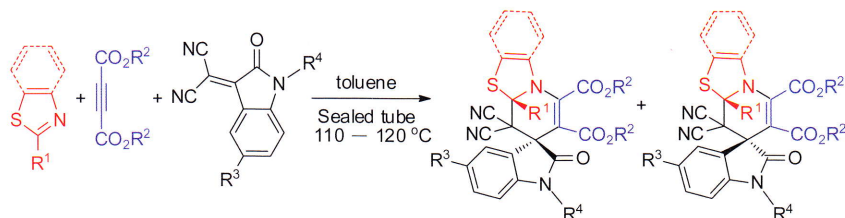
Study on the Degradation of the
Highly Reactive Hypervalent Trifluoro-
methylation Iodine Reagent $\text{PhI}(\text{OAc})\text{-(CF}_3\text{)}$ Hui Zhu, Shusheng Zhang, Haoyang
Wang, Bin Xu,* Yinlong Guo*

Degradation of the highly reactive hypervalent trifluoromethylation iodine reagent $\text{PhI}(\text{OAc})(\text{CF}_3)$, which can only be generated *in situ* with mixing $\text{PhI}(\text{OAc})_2$ and TMSCF_3 in the presence of CsF , was studied by ESI-MS and GC-MS combined with ^{19}F -NMR. The important transient intermediate PhICF_3^+ was determined by ESI-MS, and the major volatile products containing CF_3 were identified with the authentic compounds by using GC-MS, such as trifluoromethylbenzene, 2-iodobenzotrifluoride, 3-iodobenzotrifluoride, 4-iodobenzotrifluoride. Meanwhile, more evidences obtained with ^{19}F -NMR were given for such degradation reaction. A possible rapid CF_3 radical transfer reaction pathway was proposed to clarify such degradation progress based on the experimental results. Therefore, this study may be helpful in elucidating the intrinsic reactivity of $\text{PhI}(\text{OAc})(\text{CF}_3)$ and the possible competing side reactions caused by such self-degradation pathway.

1371

Three-Component Reaction for Con-
struction of Spiro[indoline-3,7'-thia-
zolo[3,2-a]pyridines] and Spiro[benzo-
[4,5]thiazolo[3,2-a]pyridine-3,3'-indol-
ines]

Fan Yang, Jing Sun, Chaoguo Yan*

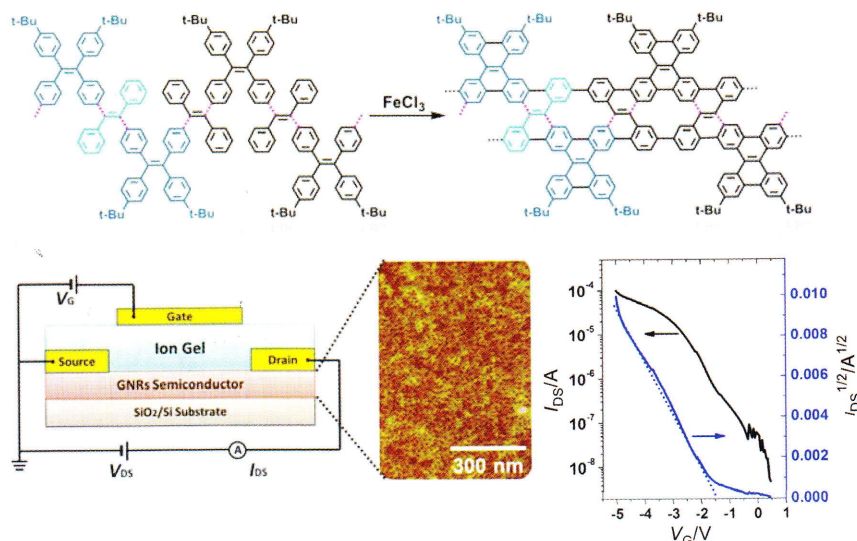


The three-component reaction of thiazole (benzothiazole), dialkyl but-2-ynedioate, and isatinylidene malononitrile afforded diastereoisomeric spiro[indoline-3,7'-thiazolo[3,2-a]pyridines] and spiro[benzo[4,5]thiazolo[3,2-a]pyridine-3,3'-indolines].

1380

Graphene Nanoribbons from Tetraphenylethene-Based Polymeric Precursor: Chemical Synthesis and Application in Thin-Film Field-Effect Transistor

Ji Ma, Haoyun Zhu, Wei Huang, Tingting Lin, Xiaoyong Pan, Weizhi Wang*

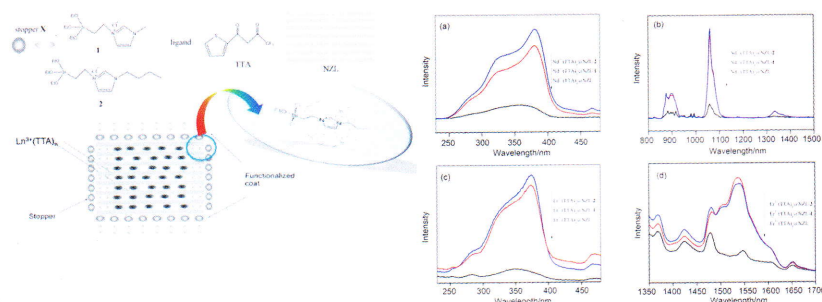


Graphene nanoribbons were synthesized by the intramolecular cyclodehydrogenation of tetraphenylethene polymer precursors and successfully used in thin-film FETs, which provides a new type of method to controllably fabricate GNRs and represents a significant step to diversify the geometries of GNRs.

1389

Enhanced NIR Luminescence of Nanozeolite L Loading Lanthanide β -Diketonate Complexes

Dong Liang, Zhiqiang Li, Peng Li, Yuhuan Chen, Shuming Zhang, Yige Wang*



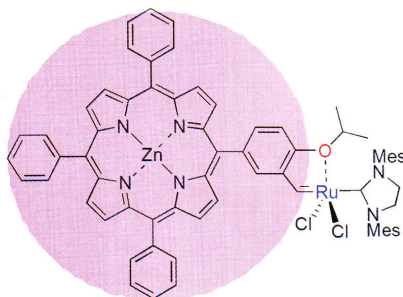
In the study, we present the preparation of zeolite NIR luminescence materials with a remarkable increase of luminescence intensity by attaching stopper molecule (an imidazolium salt) to the channel entrances of zeolite L loading with NIR lanthanide (Er^{3+} or Nd^{3+}) β -diketonate complexes.

NOTE

1393

Synthesis and Catalytic Study of Ruthenium Carbene Catalyst Containing a Zn-Porphyrin Ligand

Ying Xu, Huizhu Zhang, Xinyuan Wang, Guiyan Liu *



A ruthenium carbene complex containing a Zn-porphyrin ligand was synthesized. It was characterized by ^1H NMR, IR, HRMS and elemental analysis. The activity of the complex for ring-closing metathesis and cross-metathesis reactions was investigated. The complex exhibited high catalytic activity for many different olefin substrates.

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