



Contents lists available at ScienceDirect

Chinese Chemical Letters

journal homepage: www.elsevier.com/locate/cclet

Graphical Abstracts/Chin Chem Lett 26 (2015) iii-x

News & views

Self-assembling metal-organic coordinated fractal crystals

Chinese Chemical Letters 26 (2015) 1197

Wen-De Xiao

Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China

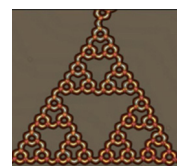
Original Articles

Sierpiński-triangle fractal crystals with the C_{3v} point group

Chinese Chemical Letters 26 (2015) 1198

Na Li^a, Xue Zhang^a, Gao-Chen Gu^a, Hao Wang^a, Damian Niecekarz^b, Paweł Szabelski^b, Yang He^a, Yu Wang^a, Jing-Tao Lü^{c,d}, Hao Tang^f, Lian-Mao Peng^a, Shi-Min Hou^a, Kai Wu^e, Yong-Feng Wang^{a,d}^aKey Laboratory for the Physics and Chemistry of Nanodevices, Department of Electronics, Peking University, Beijing 100871, China^bDepartment of Theoretical Chemistry, Maria-Curie-Skłodowska University, PL. M. C. Skłodowskiej 3, 20-031, Lublin, Poland^cSchool of Physics, Huazhong University of Science and Technology, Wuhan 430074, China^dBeida Information Research (BIR), Tianjin 300457, China^eBNLMS, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China^fGroupe Matériaux Crystallins sous Contrainte, CEMES-CNRS, Boîte Postale 94347, 31055 Toulouse, France

Self-similar fractals are of importance in both science and engineering. Such fractals are constructed in this study by using 120° V-shaped 4,4'-dicyano-1,1':3',1''-terphenyl molecules and Fe atoms on Au(1 1 1), and studied in detail by low-temperature scanning tunneling microscopy.

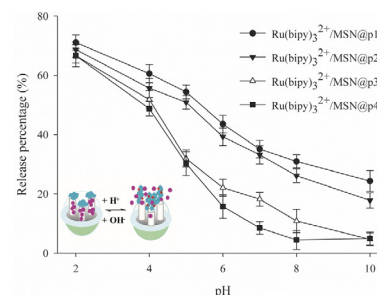


P(VPBA-DMAEA) as a pH-sensitive nanovalve for mesoporous silica nanoparticles based controlled release

Chinese Chemical Letters 26 (2015) 1203

Yu-Jie Chang, Xi-Zhen Liu, Qing Zhao, Xiao-Hai Yang, Ke-Min Wang, Qing Wang, Min Lin, Meng Yang

State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Key Laboratory for Bio-Nanotechnology and Molecular Engineering of Hunan Province, Hunan University, Changsha 410082, China

For pH-sensitive MSNs, the release percentage of $\text{Ru}(\text{bipy})_3^{2+}$ could be adjusted by changing the mole ratio of VPBA and DMAEA.

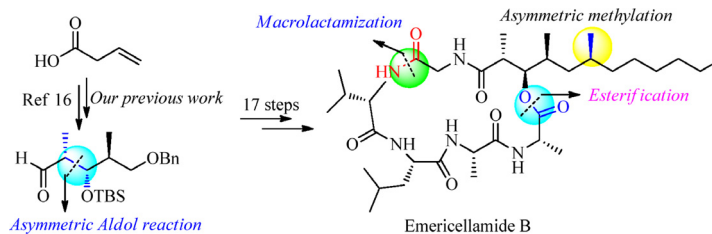
Asymmetric synthesis of emericellamide B

Rong-Guo Ren^a, Jing-Yi Ma^a, Zhuo-Ya Mao^a, Yi-Wen Liu^a,
Bang-Guo Wei^{a,b}

^aDepartment of Chemistry and Institutes of Biomedical Sciences,
Fudan University, Shanghai 200433, China

^bSchool of Pharmacy, Fudan University, Shanghai 200433, China

The emericellamide B was asymmetrically synthesized in 9.4% overall yield. In this synthetic method, the highly methylated (2*R*,3*R*,4*S*,6*S*)-3-hydroxy-2,4,6-trimethyldodecanoic acid (HTMD) unit was effectively prepared through the asymmetric methylation, Wittig and Horner-Wadsworth-Emmons reaction.



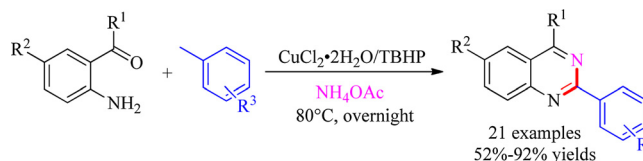
Chinese Chemical Letters 26 (2015) 1209

Efficient synthesis of 2-arylquinazolines via copper-catalyzed dual oxidative benzylic C–H aminations of methylarenes

Li-Yan Liu, Yi-Zhe Yan, Ya-Jie Bao, Zhi-Yong Wang

Hefei National Laboratory for Physical Sciences at Microscale, CAS Key Laboratory of Soft Matter Chemistry & Collaborative Innovation Center of Suzhou Nano Science and Technology, University of Science and Technology of China, Hefei 230026, China

A novel copper-catalyzed dual oxidative benzylic C–H amination of methylarenes with 2-aminobenzoketones in the presence of ammonium acetate was developed. This reaction represents a new avenue for 2-arylquinazolines with good yields.



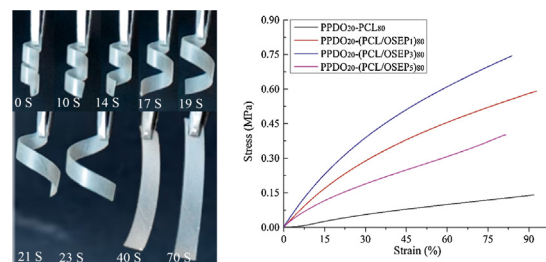
Chinese Chemical Letters 26 (2015) 1216

Shape-memory poly(*p*-dioxanone)–poly(ε-caprolactone)/sepiolite nanocomposites with enhanced recovery stress

Mi-Qin Zhan, Ke-Ke Yang, Yu-Zhong Wang

Center for Degradable and Flame-Retardant Polymeric Materials (ERCEPM-MOE), National Engineering Laboratory of Eco-Friendly Polymeric Materials (Sichuan), State Key Laboratory of Polymer Materials Engineering, College of Chemistry, Sichuan University, Chengdu 610064, China

A series of shape-memory poly(*p*-dioxanone)–poly(ε-caprolactone)/sepiolite (PPDO–PCL/OSEP) nanocomposites with different OSEP nanofiber loading were fabricated by chain-extending PPDO-diol and PCL/OSEP precursors. The OSEP dispersed in PCL soft segment serves as netpoint of shape-memory composite as well as the reinforce filler, which evokes an effective improvement in shape-memory recovery stress.



Chinese Chemical Letters 26 (2015) 1221

Development of LC–MS method for analysis of paclitaxel-inhibited growth and enhanced therapeutic response in human glioblastoma cells

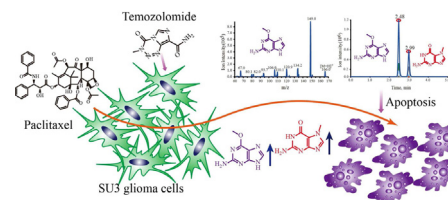
Cai-Hou Lin^a, Xue-Xia Lin^b, Ling Lin^{b,c}, Jun-Ming Wang^b, Zhi-Xiong Lin^a, Jin-Ming Lin^b

^aDepartment of Neurosurgery, The First Affiliated Hospital of Fujian Medical University, Fuzhou 350005, China

^bBeijing Key Laboratory of Microanalytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China

^cDepartment of Bioengineering, School of Engineering, The University of Tokyo, Tokyo 113-8656, Japan

Paclitaxel usually binds to microtubules of SU3 glioma cells, and thus enhanced the cytotoxic response of SU3 glioma cells to temozolomide. This study developed a LC–MS platform to reveal the molecular mechanism of paclitaxel-inhibited growth and enhanced therapeutic response in the chemotherapy for glioma multiforme.



Chinese Chemical Letters 26 (2015) 1225

Download English Version:

<https://daneshyari.com/en/article/1257086>

Download Persian Version:

<https://daneshyari.com/article/1257086>

[Daneshyari.com](https://daneshyari.com)