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ISSN print edition: 1674-7291

ISSN electronic edition: 1869-1870

Volume 55 (12 issues) will appear in 2012

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Printed in the People's Republic of China

Jointly Published by Science China Press and Springer

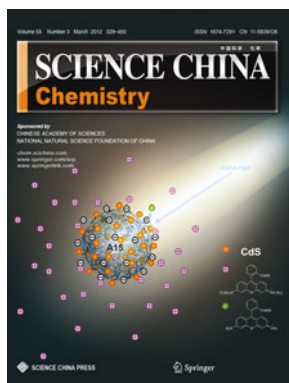
Supervised by Chinese Academy of Sciences

Sponsored by Chinese Academy of Sciences and National Natural Science Foundation of China

Printed by Beijing Zhongke Printing Co., Ltd., Building 101, Songzhuang Industry Zone, Tongzhou District, Beijing 101118, China

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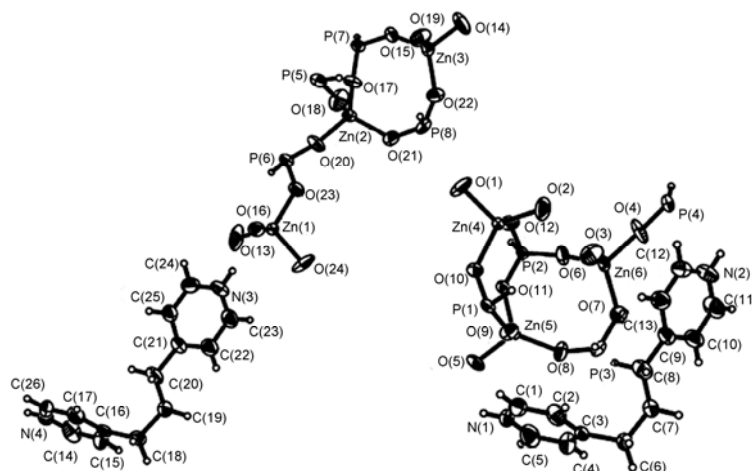
COVER A nanocomposite photocatalyst, A15-CdS, was fabricated for photodegradation of cationic dyes by inner-surface deposition of CdS nanoparticles within a porous polymeric cation exchanger A15. The sulfonic groups bound to the polymeric matrix would result in preconcentration of Rhodamine B (RhB) prior to photodegradation, because RhB is positively charged and could be preferably sequestered by a cation exchanger. CdS nanoparticles immobilized on A15 are expected to decompose RhB under visible light illumination. The ethyl groups of RhB were removed gradually, accompanied by color changes from initially pink to light yellow-green. As a result of the big size of the nanocomposite photocatalyst, the used A15-CdS could be easily separated from solutions for reuse. (see the article by XIE YingMei, LV Lu, LI MingHui, PAN BingCai, CHEN Qun, ZHANG WeiMing, ZHANG QuanXing on page 409–415)

ARTICLES

Synthesis and characterization of a new open-framework zinc phosphite $(4,4'-(C_5H_4N)_2(CH_2)_3)[Zn_3(HPO_3)_4]$

WANG Lei, XUE RuiFeng, CHEN RuiXin, LU XiFeng, LI GuangHua & TAO XuTang

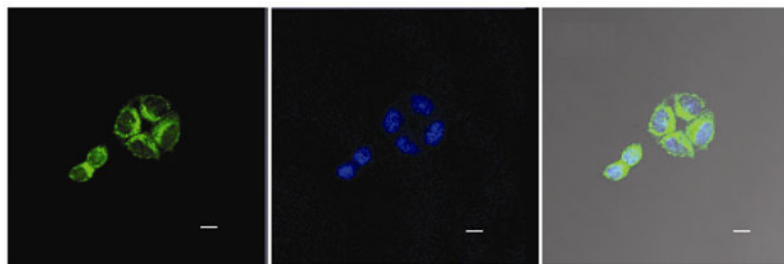
Sci China Chem, 2012, 55(3): 329–333



Metal complexes of a novel bis- β -diketone-type ligand and its copper(II) complexes of two-photon biological imaging

ZHOU ShuangSheng, XUE Xuan, JIANG Bo & TIAN YuPeng

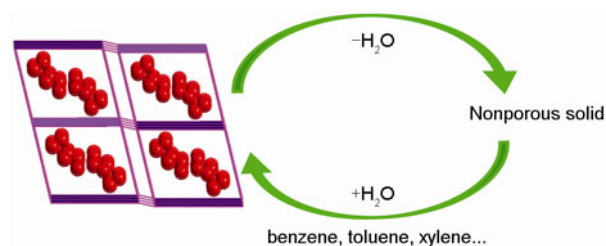
Sci China Chem, 2012, 55(3): 334–340



Flexible 3D porous metal–organic framework exhibiting selective adsorption for H₂O over organic solvents

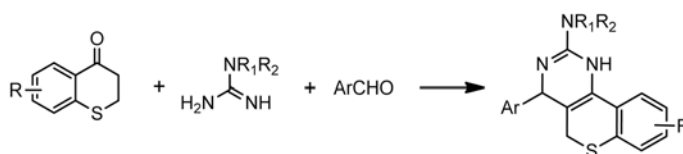
LIU Bo, REN Chen, WANG YaoYu, HOU Lei,
LIU RuiTing & SHI QiZhen

Sci China Chem, 2012, 55(3): 341–346

**Synthesis and antitumor activities of a new series of 4,5-dihydro-1*H*-thiochromeno[4,3-*d*]pyrimidine derivatives**

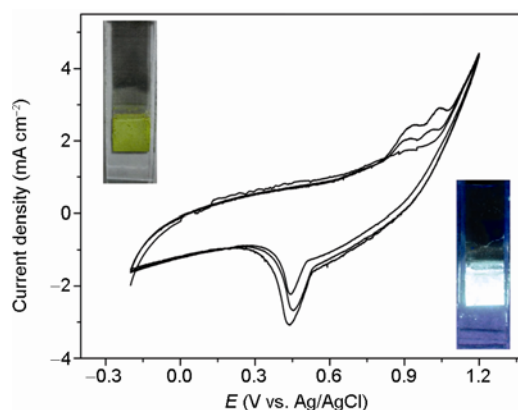
GUO DeXiang, LIU YaJing, LI Ting, WANG Nan,
ZHAI Xin, HU Chun & GONG Ping

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**Capacitive properties of low potential electro-polymerized polyfluorene and activated carbon composite electrode**

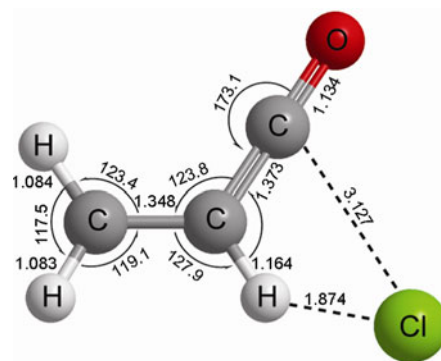
LIU Wei, SUN MingLiang, WANG Wei, SONG LingXia, GE HongLun,
SUN Miao & ZHANG QingJie

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**Photodissociation of acryloyl chloride in the gas phase**

YANG ChunFan, WU WeiQiang, LIU KunHui, WANG Huan & SU HongMei

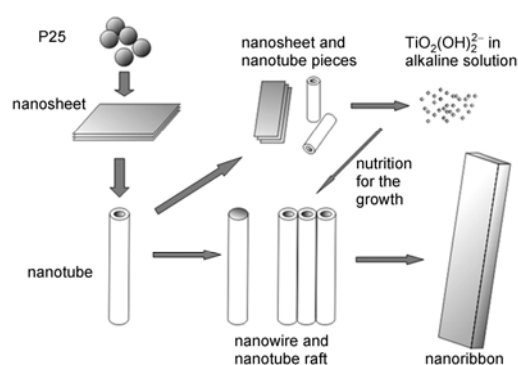
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A multistep attachment process: Transformation of titanate nanotubes into nanoribbons

SHENG Jiang, HU LinHua, MO Li'E, LI WenXin,
TIAN HuaJun & DAI SongYuan

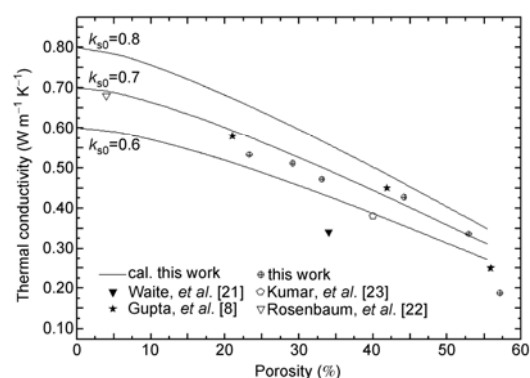
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LI DongLiang, DU JianWei, HE Song, LIANG DeQing,
ZHAO XiangYong & YANG XiangYang

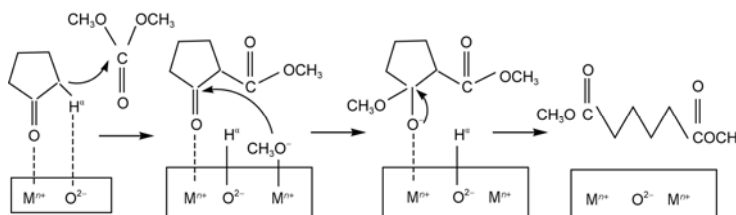
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Synthesis of dimethyl adipate from cyclopentanone and dimethyl carbonate over solid base catalysts

WU DuDu, CHEN Zhi, JIA ZhenBin & SHUAI Li

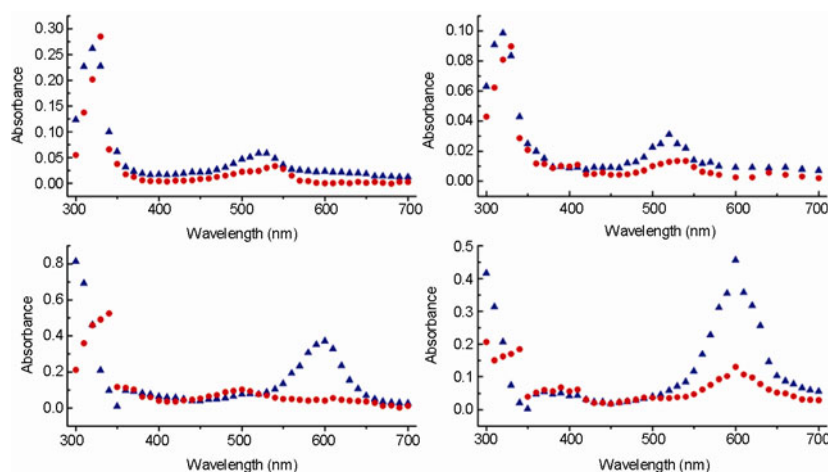
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Photosensitized oxidation of tryptophan and tyrosine by aromatic ketones: A laser flash photolysis study

TANG RuiZhi, ZHANG Peng, LI HaiXia, LIU YanCheng & WANG WenFeng

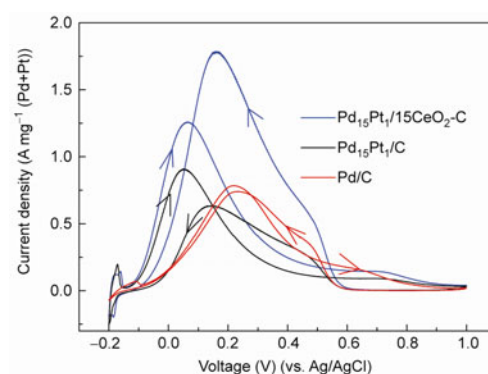
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Enhanced electro-oxidation of formic acid by a PdPt bimetallic catalyst on a CeO₂-modified carbon support

YANG LiJun, SU HuaNeng, SHU Ting & LIAO ShiJun

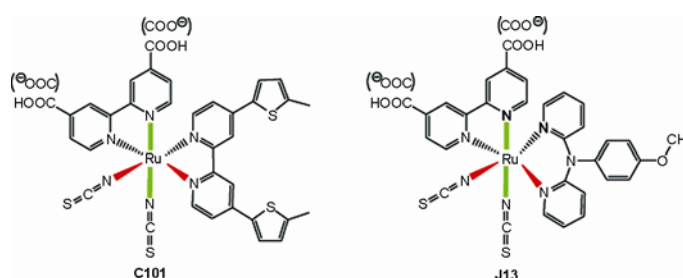
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Theoretical studies of the structures and spectroscopic properties of the photoelectrochemical cell ruthenium sensitizers, C101 and J13

CHEN Jie, BAI FuQuan, WANG Jian, SUN Lei, PAN QingJiang & ZHANG HongXing

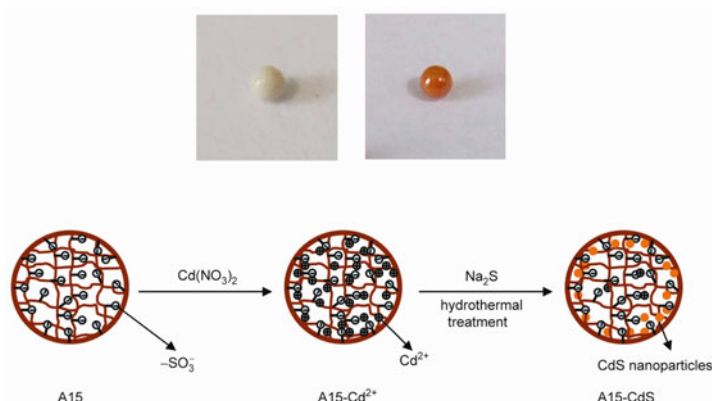
Sci China Chem, 2012, 55(3): 398–408



Development of cation exchanger-based nano-CdS hybrid catalyst for visible-light photodegradation of rhodamine B from water

XIE YingMei, LV Lu, LI MingHui, PAN BingCai, CHEN Qun, ZHANG WeiMing & ZHANG QuanXing

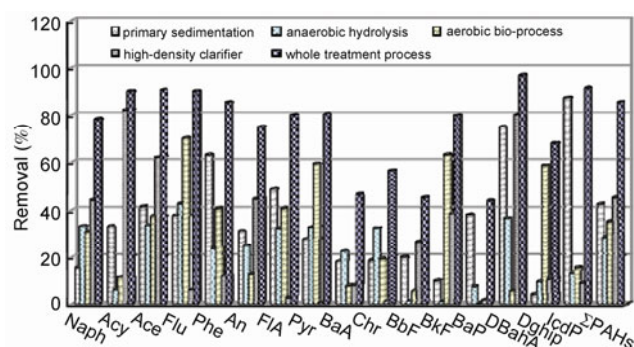
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Polycyclic aromatic hydrocarbons in the centralized wastewater treatment plant of a chemical industry zone: Removal, mass balance and source analysis

YAO Min, ZHANG XingWang & LEI LeCheng

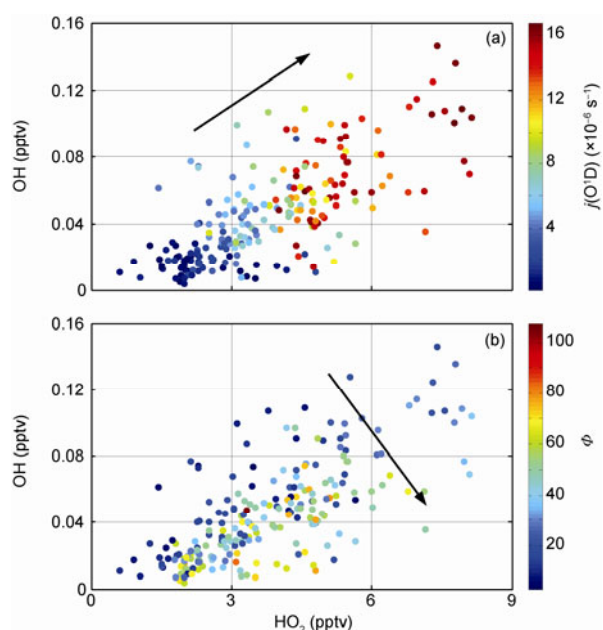
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Chemistry of daytime HO_x radicals in marine boundary layer in the sea of Japan: Based on the ratio between the reactivity of HC and NO_x

WANG ZhuQing, ZHENG Yi, YANG Bing, CHEN YaShao & QI Bin

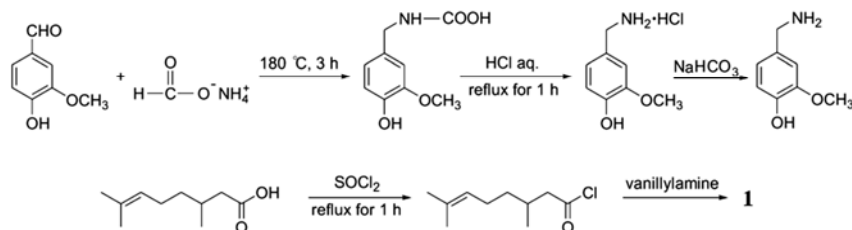
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Studies on the synthesis, pungency and anti-biofouling performance of capsaicin analogues

Peng BiXian, Wang JunLian, Peng ZhengHong, Zhou ShengZe, Wang FengQi, Ji YongLiang, Ye ZhangJi, Zhou XiangFeng, Lin Tong & Zhang XiaoBin

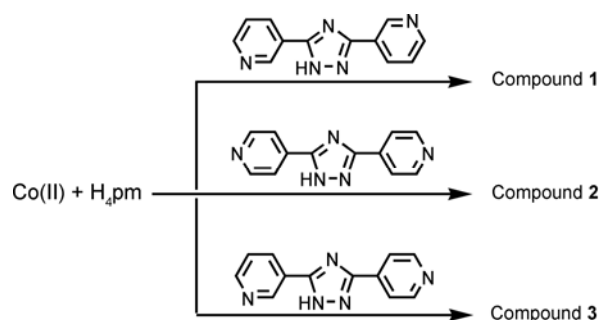
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Cobalt(II) coordination polymers built on isomeric dipyridyl triazole ligands with pyromellitic acid: Synthesis, characterization and their effects on the thermal decomposition of ammonium perchlorate

XIE Gang, LI Bing, CHEN SanPing, YANG Qi, WEI Wei & GAO ShengLi

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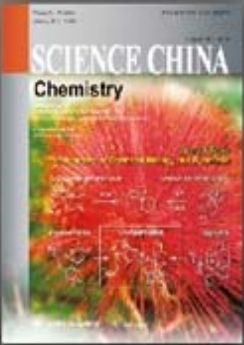
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