

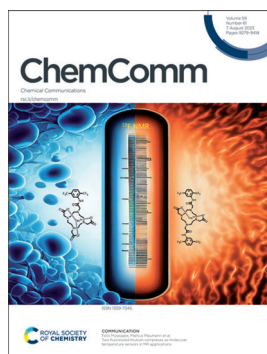
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ISSN 1359-7345 CODEN CHCOFS 59(61) 9279-9414 (2023)



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See Saikat Das, Song Wang, Yuichi Negishi *et al.*, pp. 9336-9339. Image reproduced by permission of Yuichi Negishi from *Chem. Commun.*, 2023, 59, 9336.



Inside cover

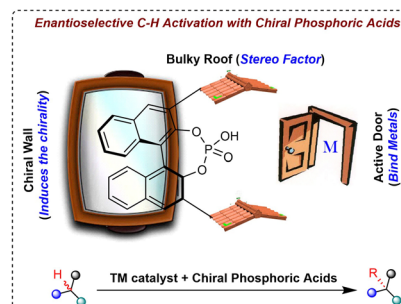
See Felix Mysegaes, Markus Plaumann *et al.*, pp. 9340-9343. Image reproduced by permission of Markus Plaumann from *Chem. Commun.*, 2023, 59, 9340.

HIGHLIGHT

9288

Chiral phosphoric acids: a chiral lobby for enantioselective C-H activation

Sumit, Devesh Chandra and Upendra Sharma*

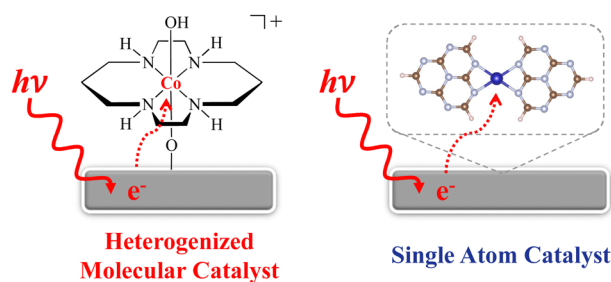


FEATURE ARTICLES

9301

Well-defined surface catalytic sites for solar CO₂ reduction: heterogenized molecular catalysts and single atom catalysts

Peipei Huang, Ehab Shaaban, Esraa Ahmad, Allison St. John, Tianqi Jin and Gonghu Li*



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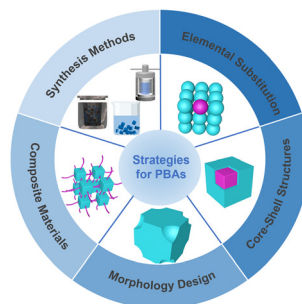


FEATURE ARTICLES

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Low-cost Prussian blue analogues for sodium-ion batteries and other metal-ion batteries

Jia-Qi Huang, Rui Du, Hang Zhang, Yang Liu,*
Jian Chen, Yi-Jie Liu, Li Li, Jian Peng,* Yun Qiao* and
Shu-Lei Chou*

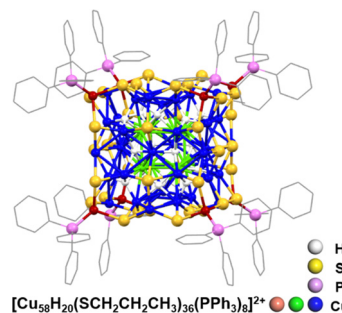


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Nested Keplerian architecture of $[\text{Cu}_{58}\text{H}_{20}(\text{SPr})_{36}(\text{PPh}_3)_8]^{2+}$ nanoclusters

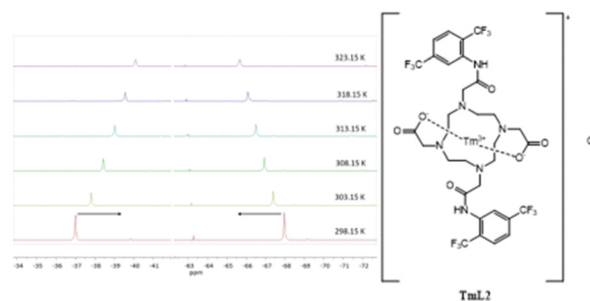
Sourav Biswas, Sakiat Hossian, Taiga Kosaka, Jin Sakai,
Daichi Arima, Yoshiki Niihori, Masaaki Mitsui,
De-en Jiang, Saikat Das,* Song Wang* and
Yuichi Negishi*



9340

Two fluorinated thulium complexes as molecular temperature sensors in MR applications

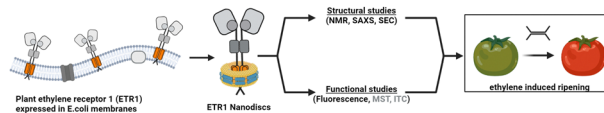
Felix Mysegaes,* Pauline Voigt, Peter Spiteller,
Isabell Prediger, Johannes Bernarding and
Markus Plaumann*



9344

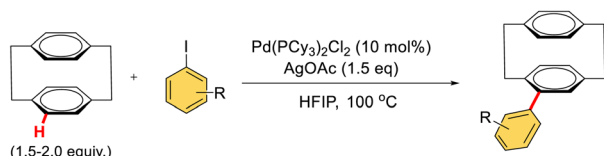
Functional reconstitution and structural characterization of the plant hormone receptor ETR1 in lipid nanodiscs

Moritz Lemke, Jens Reiners, Sander H. J. Smits,
Nils Lakomek and Georg Groth*



COMMUNICATIONS

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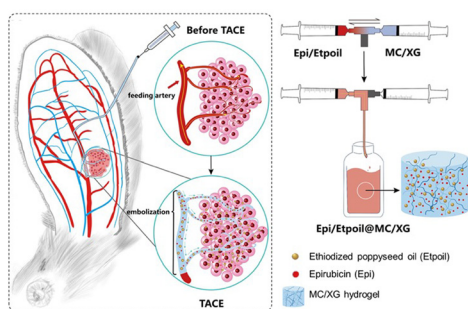
✓ Non-directed C-H arylation;

✓ Broad substrate scope;

Non-directed Pd-catalysed C–H arylation of [2.2]paracyclophane

Jun Pu, Lei Chen, Rui-Rui Wu, Peng Ye, Huan-Le Li, Shuang Wang, Zhen-Yuan Xu, Shao-Jie Lou* and Dan-Qian Xu*

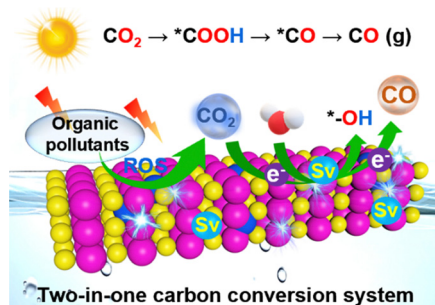
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Thermoresponsive hydrogel for transcatheter arterial chemoembolization of hepatocellular carcinoma

Wei Zhao, Jiabin Xu, Yuanyuan You, Zhenhu Guo, Yun Xiang, Kenan Hao, Xiaofeng He* and Peng Zhao*

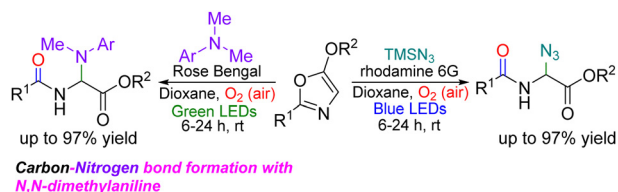
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Boosting mineralized organic pollutants by using a sulfur-vacancy CdS photocatalyst

Huijie Wang, Yang Wan, Shikang Yin, Mengyang Xu, Xiaoxue Zhao, Xin Liu, Xianghai Song, Huiqin Wang, Chen Zhu* and Pengwei Huo*

9360



Visible light-mediated ring-ablative functionalization of oxazoles: oxidative azidation and demethylative amination

Parul Garg, Tavinder Singh and Anand Singh*

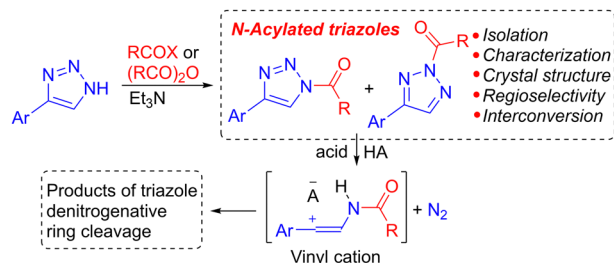


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N-Acyl-1,2,3-triazoles – key intermediates in denitrogenative transformations

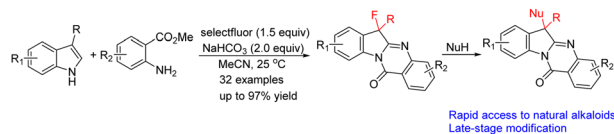
Vladimir Motornov,* Radek Pohl, Blanka Klepetářová and Petr Beier*



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An efficient Selectfluor-mediated condensation of indoles and anthranilates for the synthesis of indoloquinazolinones

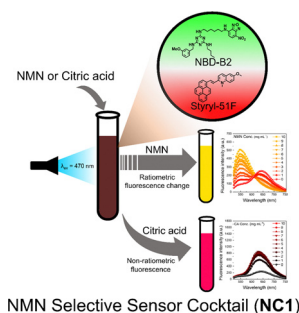
Xinzhe Wang, Zhipeng Wu, Guogang Tu, Yuanyue Zhao and Xiaodong Xiong*



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NMN sensor cocktail: selective sensing of nicotinamide mononucleotide over citric acid

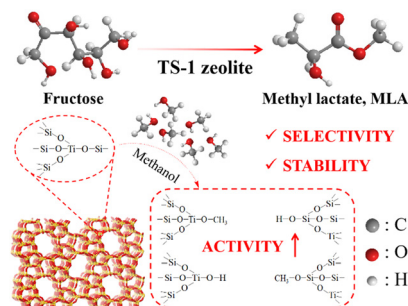
Hong-Guen Lee, Na-Kyeong Hong and Young-Tae Chang*



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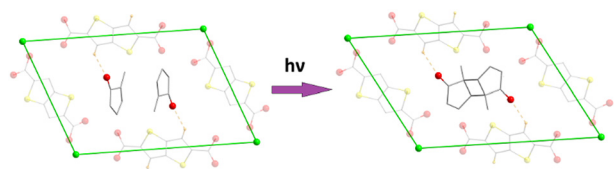
Reaction induced thermally stabilized TS-1 zeolite as a novel long-lasting catalyst for methyl lactate production

Yuxi Jiang, Xilei Lyu,* Xiwen Wei, Aotian Ren, Hao Chen* and Xiuyang Lu*



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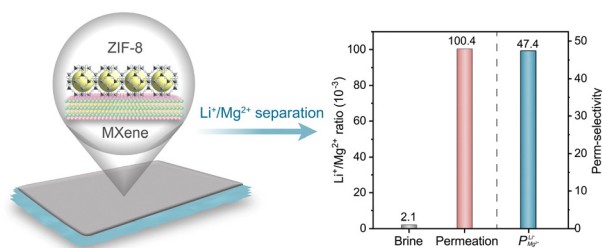
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Diastereoselective guest-shape dependent [2+2]-photodimerization of 2-cyclopenten-1-one trapped within a metal-organic framework

Pavel A. Demakov,* Danil N. Dybtsev and Vladimir P. Fedin*

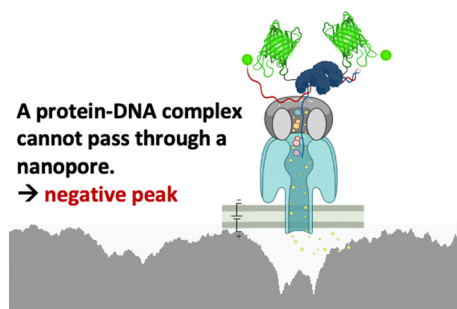
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Construction of a hierarchical membrane with angstrom-scale ion channels for enhanced $\text{Li}^+/\text{Mg}^{2+}$ separation

Lin Fu, Qingchen Wang, Yuhao Hu, Yongchao Qian, Weiwen Xin, Shengyang Zhou, Xiang-Yu Kong* and Liping Wen*

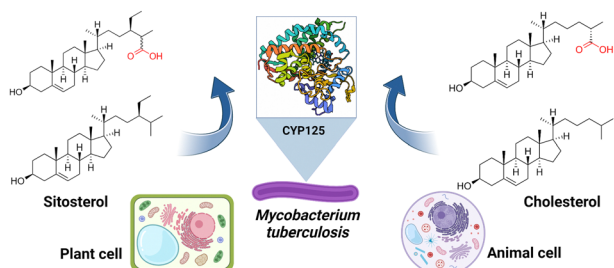
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Negative nanopore sequencing for mapping biochemical processes on DNA molecules

YoonYi Kim, Chanyoung Noh, Myungheon Yu, Minji Bae and Kyubong Jo*

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The bacterial cytochrome P450 (CYP) CYP125 enzymes can competitively oxidise sitosterol in the presence of cholesterol

Daniel Z. Doherty,* Amna Ghith, Ava Ho, James J. De Voss and Stephen G. Bell*

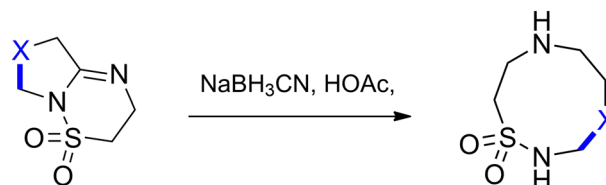


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Reductive cleavage of annulated 5,6-dihydro-2*H*-1,2,4-thiadiazine-1,1-dioxides: medium sized ring azasultams

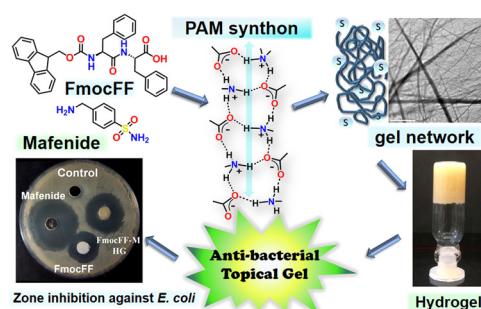
Viacheslav Lysenko, Kostiantyn Nazarenko, Svitlana Shishkina and Aleksandr Kostyuk*



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Designing a vehicle-free anti-bacterial topical hydrogel from Fmoc-diphenylalanine

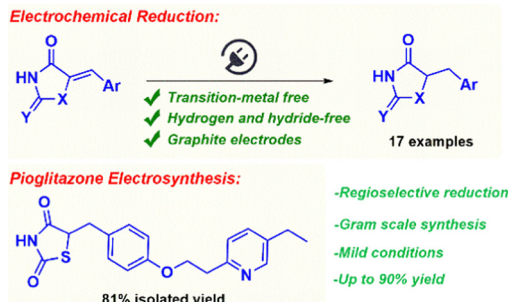
Nabanita Roy, Hemanta Kumar Datta, Rajdip Roy and Parthasarathi Dastidar*



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Electrochemical reduction of 5-benzylidene thiazolidine-2,4-diones: a greener approach to the preparation of glitazone APIs

Pedro P. de Castro,* Guilherme M. Martins, Ronewalber B. Gomes, Guilherme B. Simoso, Giovanni W. Amarante, Timothy J. Brocksom and Kleber T. de Oliveira*



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Stable glycosylamines at the reducing ends of cellulose nanocrystals

Jingwen Xia, Tetyana Koso, Katja Heise, Lukas Fliri, Emilie Ressouche, Johanna Majoinen, Mauri A. Kostianen, Sami Hietala, Michael Hummel, Vladimir Aseyev,* Ilkka Kilpeläinen* and Alistair W.T. King*

