

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

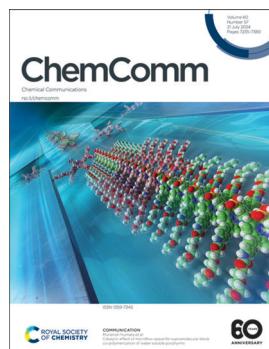
IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS 60(57) 7235–7380 (2024)



Cover

See S. Hohloch et al., pp. 7299–7302.
Image reproduced by permission of Stephan Hohloch and Anna Pavun from *Chem. Commun.*, 2024, **60**, 7299.



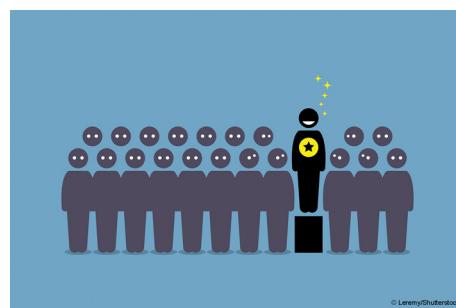
Inside cover

See Munenori Numata et al., pp. 7303–7306.
Image reproduced by permission of Munenori Numata from *Chem. Commun.*, 2024, **60**, 7303.

EDITORIAL

7245

Outstanding Reviewers for *ChemComm* in 2023

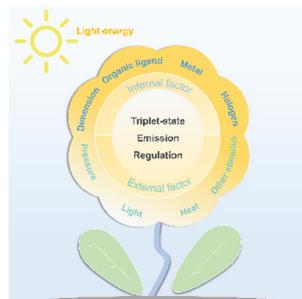


HIGHLIGHT

7246

Recent strategies for triplet-state emission regulation toward non-lead organic–inorganic metal halides

Zhaorui Hua, Lingyi Wang, Shuyan Gong, Yang Tian* and Hongbing Fu*



ChemComm

Uncover new possibilities
with outstanding
preliminary research

Original discoveries, fuelling
every step of scientific progress

rsc.li/chemcomm

Fundamental questions
Elemental answers

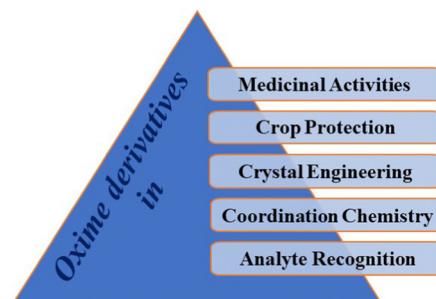
Published on 7/19/2025 9:01:49 AM
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

FEATURE ARTICLES

7266

A review on oxime functionality: an ordinary functional group with significant impacts in supramolecular chemistry

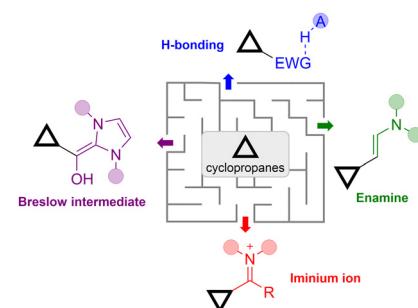
Arup Tarai* and Bhaskar Nath*



7288

Organocatalysis as an enabling tool for enantioselective ring-opening reactions of cyclopropanes

Efraim Reyes, Uxue Urias, Liher Prieto, Luisa Carrillo and Jose L. Vicario*

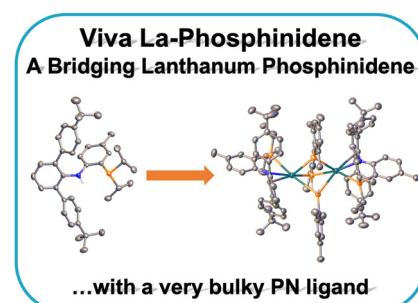


COMMUNICATIONS

7299

A bridging bis-phosphanido-phosphinidene complex of lanthanum supported by a sterically encumbering PN ligand

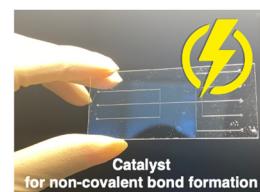
B. Wittwer, F. Heim, K. Wurst and S. Hohloch*



7303

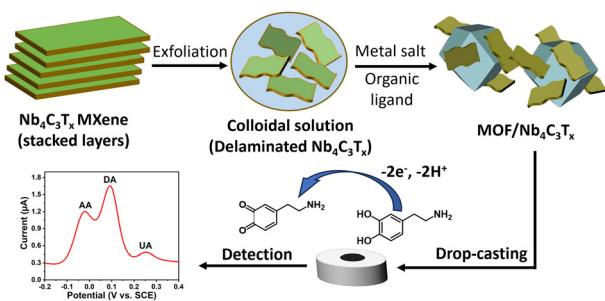
Catalytic effect of microflow space for supramolecular block co-polymerization of water-soluble porphyrins

Haruna Takemori, Chisako Kanzaki, Shota Nomura, Takato Maeda and Munenori Numata*



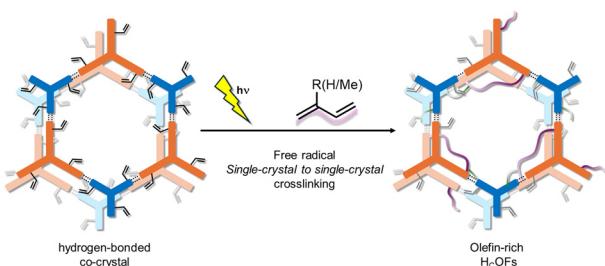
COMMUNICATIONS

7307

**Metal–organic framework/Nb₄C₃T_x MXene composites for ultrasensitive detection of dopamine**

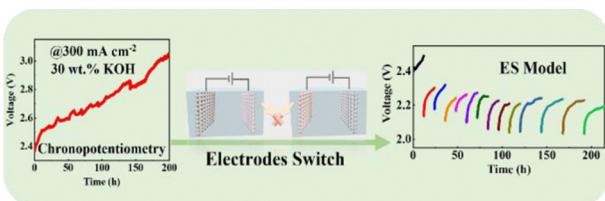
Purna K. Boruah, Nidhi Sharma, Manash R. Das, Ryo Ohtani, Benjamin Le Ouay* and Masaaki Ohba*

7311

**Porous organic crystals crosslinked by free-radical reactions**

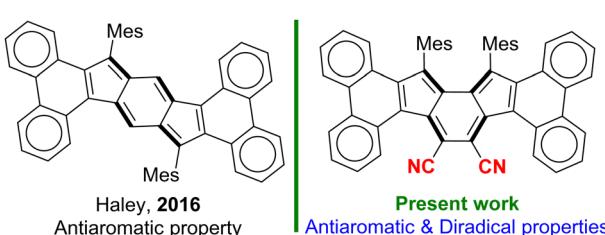
Krishanu Samanta, Jiashan Mi, Albert D. Chen, Fangzhou Li, Richard J. Staples, Aaron J. Rossini and Chenfeng Ke*

7315

**Electrode switch—an efficient induced approach for self-activation of an electrode toward water splitting**

Jin Kong, Zhihong Wang,* Chaoyue Liu, Shuo Wang, Yingshuang Guo, Honglei Chen, Jiepeng Wang and Zhe Lü

7319

**Cyano disubstituted tetrabenzoindeno[2,1-a]-fluorene: open-shell or closed-shell?**

Priyank Kumar Sharma, Palash Jana, Subhajit Bandyopadhyay and Soumyajit Das*

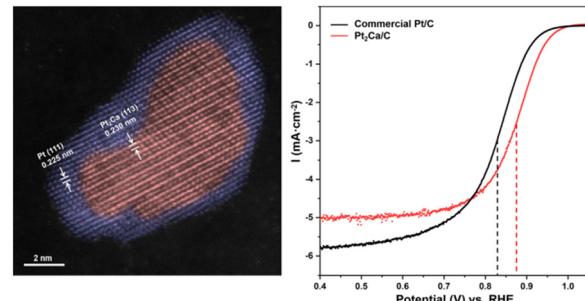


COMMUNICATIONS

7323

Solid state preparation of carbon-supported Pt₂Ca nanoparticles for the oxygen reduction reaction

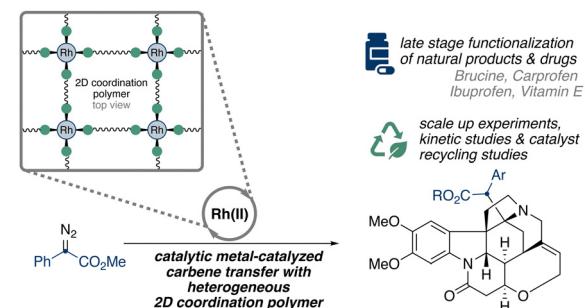
Rumei Jin, Zewei Xie, Kuerbangnisha Kadeer, Xingguo Li, Yawen Zhang* and Jie Zheng*



7327

Unlocking catalytic potential: a rhodium(II)-based coordination polymer for efficient carbene transfer reactions with donor/acceptor diazoalkanes

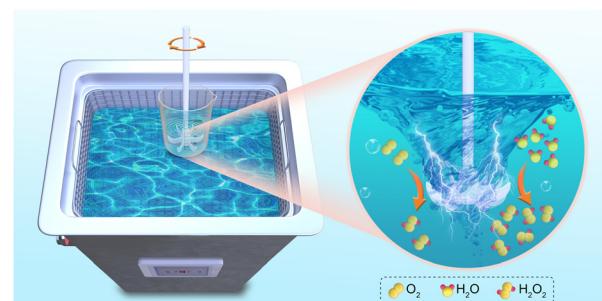
Claire Empel, Marcus N. A. Fetzer, Suman Sasmal, Till Strothmann, Christoph Janiak and Rene M. Koenigs*



7331

Catalyst-free contact-electro-catalytic H₂O₂ synthesis via simple combination of a poly(tetrafluoroethylene) stir bar and ultrasound

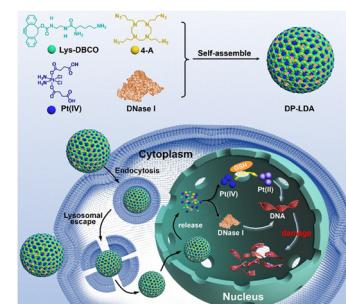
Yao Wang, Yanfeng Wang,* Baowei Hu, Muqing Qiu, Guandao Gao and Peiyun Wei*



7335

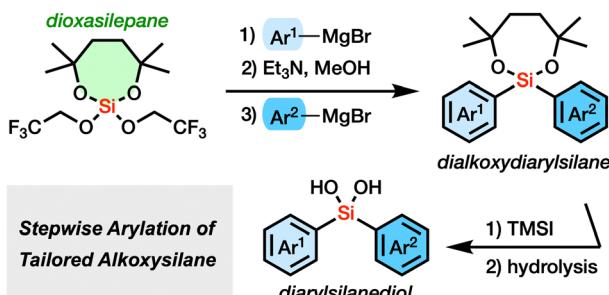
Self-assembly of enzymes and prodrugs with clickable amino acids for nucleus-targeted cancer therapy

Ye Liu, Rumeng Cao, Jieyu Yang, Hui Chen, Jiumeng Zhang* and Xuli Feng*



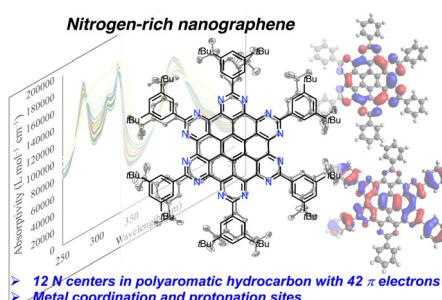
COMMUNICATIONS

7339

**Synthesis of unsymmetrical dialkoxy diarylsilanes and diarylsilanediols from tetraalkoxysilane having a dioxasilepane unit**

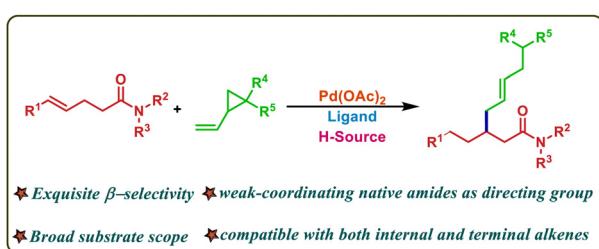
Kenshiro Hitoshio, Hiroki Maeda, Kento Teranishi, Jun Shimokawa* and Hideki Yorimitsu*

7343

**Synthesis and electronic properties of nitrogen-rich nanographene**

Gavin P. Heim, Masanari Hirahara, Vidhya M. Dev and Theodor Agapie*

7347

**Palladium-catalyzed site-selective functionalization of unactivated alkenes with vinylcyclopropanes aided by weakly coordinating native amides**

Meledath Sudhakaran Keerthana and Masilamani Jeganmohan*

7351

**Electrochemical synthesis of phosphorylated azaspiro[4.5]di/trienones through dearomatic spirocyclization**

Xiaocong Zhou, Jian Wang, Dumei Ma,* Yirui Shen, Yufen Zhao and Ju Wu*

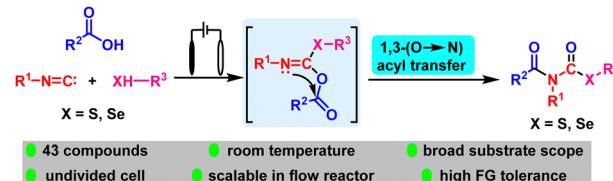


COMMUNICATIONS

7355

Electrochemically-driven difunctionalization of the isocyanide and Mumm rearrangement cascade: expeditious synthesis of *N*-acyl-*N*-alkyl S-thiocarbamates

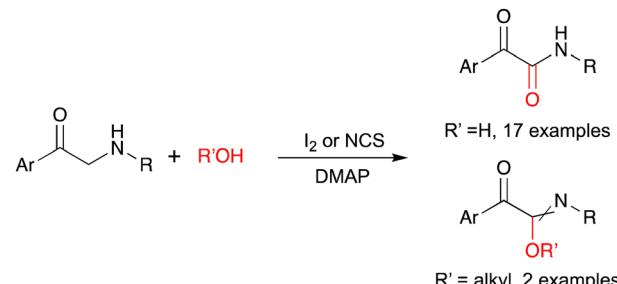
Kuldeep Singh Bhati and Siddharth Sharma*



7359

DMAP-promoted oxidative functionalization of α -amino ketones *via* oxygen delivery from water/alcohols

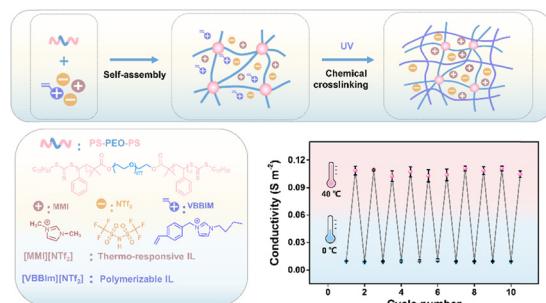
Ying-Wei Wang,* Xiao-Nan Liu, Jia Zheng, Jian Su, Qi-Jun Li, Xian-Rong Cai, Qiang Wang and Xing-Yong Liang*



7363

A processable ionogel with thermo-switchable conductivity

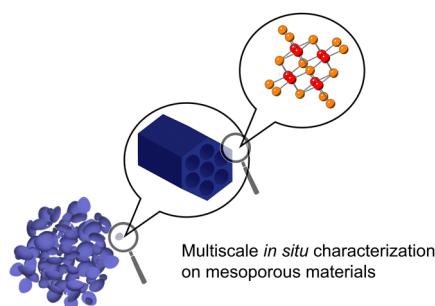
Shoujie Shen,* Jia Li, Qiyu Wu, Xingchao Chen, Chuao Ma, Chan Liu and Hongliang Liu*



7366

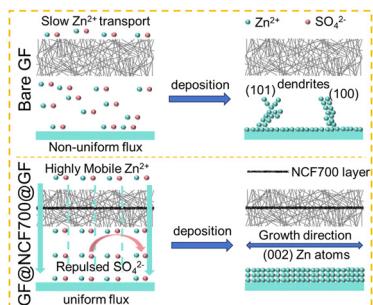
Multiscale characterizations of structural evolution in mesoporous CeO_2

Tianyu Li and Efrain E. Rodriguez*



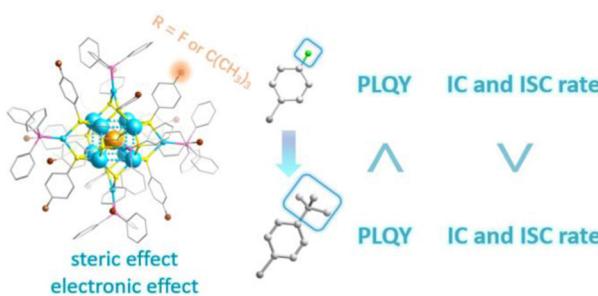
COMMUNICATIONS

7370

**A nitrogen-doped carbon fiber coating embedded in the separator for stable zinc batteries**

Dingzhong Luo, Jiae Wu, Wentao Deng, Guoqiang Zou, Hongshuai Hou* and Xiaobo Ji

7374

**Influence of the substituents of the thiol ligand on the optical properties of $AuCu_{14}$**

Yu-Jing Zhao, Jin-Sen Yang, Jing Li, Yu-Bing Si, Lu-Yao Xiao, Zhao-Yang Wang, Jia-Hua Hu,* Xi-Yan Dong and Shuang-Quan Zang