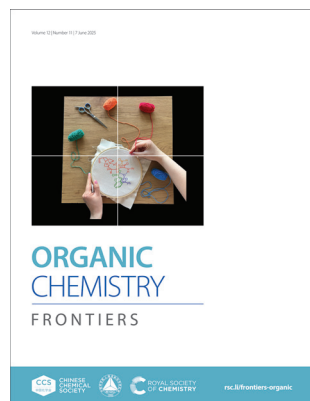


IN THIS ISSUE

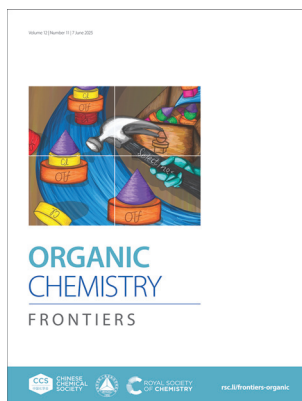
ISSN 2052-4129 CODEN OCFRA8 12(11) 3315–3536 (2025)

**Cover**

See Anna Skrzyńska, Łukasz Albrecht *et al.*, pp. 3324–3329.

Image reproduced by permission of Aleksandra Topolska from *Org. Chem. Front.*, 2025, **12**, 3324.

Photo taken by Aleksandra Topolska.

**Inside cover**

See Chau Ming So *et al.*, pp. 3330–3335.

Image reproduced by permission of Chau Ming So from *Org. Chem. Front.*, 2025, **12**, 3330.

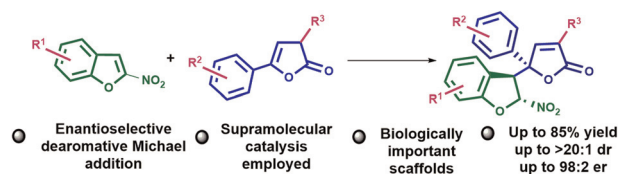
Image created by Ng Shan Shan.

RESEARCH ARTICLES

3324

Supramolecular catalysis in the dearomative Michael addition involving nitro-group-activated benzofurans

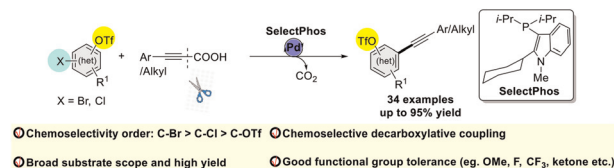
Aleksandra Topolska, Artur Przydacz, Anna Skrzyńska* and Łukasz Albrecht*



3330

Palladium-catalyzed chemoselective decarboxylative coupling of alkynyl carboxylic acids with halogenated aryl triflates

Miao Wang, On Ying Yuen, Shan Shan Ng and Chau Ming So*



Environmental Science: Atmospheres

GOLD
OPEN
ACCESS

Connecting communities
and inspiring new ideas

rsc.li/submittoEA

Fundamental questions
Elemental answers

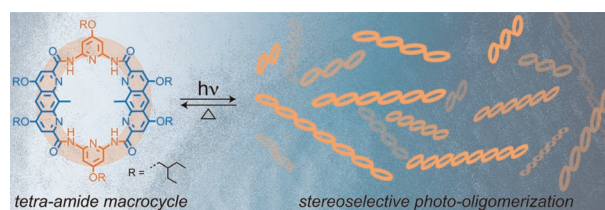


RESEARCH ARTICLES

3336

Unveiling stereoselective ladders via photo-oligomerization of a diazaanthracene macrocycle

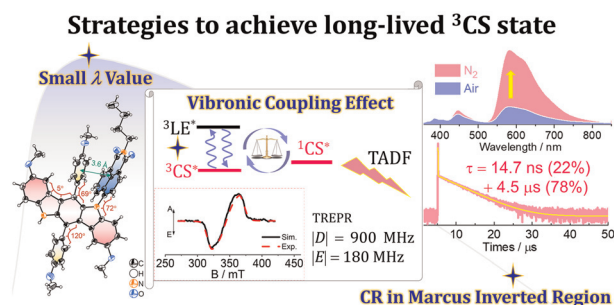
Jinti Moni Kumar, Ivan Huc, Yann Ferrand and Bappaditya Gole*



3344

Charge separation and intersystem crossing in compact, orthogonal and sterically encumbered 6,12-diphenyl indolo[3,2-*b*]carbazole-naphthalimide electron donor–acceptor dyad

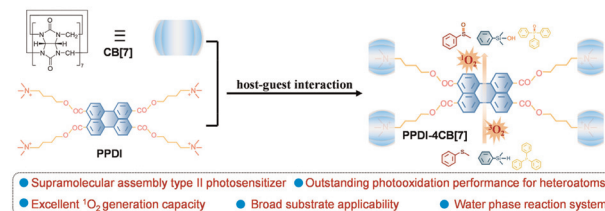
Xue Zhang, Ziqian Xu, Andrey A. Sukhanov, Xichuan Yang, Ayhan Elmali, Jianzhang Zhao,* Bernhard Dick,* Ahmet Karatay* and Violeta K. Voronkova*



3363

Construction of perylene supramolecular assemblies with enhanced singlet oxygen generation for heteroatom photooxidation

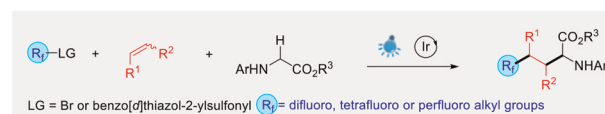
Yu-Song Bi, Rong-Zhen Zhang, Kai-Kai Niu, Hui Liu and Ling-Bao Xing*



3373

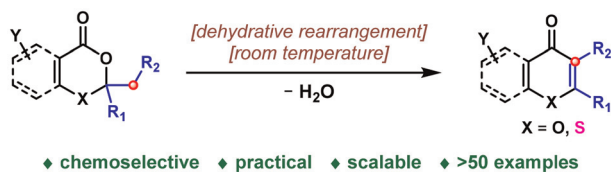
Stabilized carbon radical-mediated three-component polyfluoroalkylation of amino acid derivatives

Meizhong Tang, Ye Wang, Shenlin Huang* and Lan-Gui Xie*



RESEARCH ARTICLES

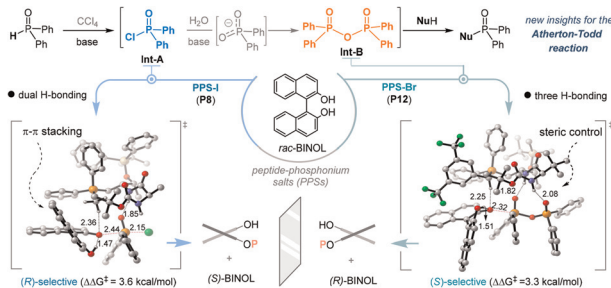
3380



A unified protocol for the synthesis of chromones, thiochromones and γ -pyrones via a dehydrative rearrangement reaction at room temperature

Yue-Qi Wang, Wei-Li Jin, Hui-Qing Chen, Jin-Xin Zhou, Hong-Yan Shen and Jie Wang*

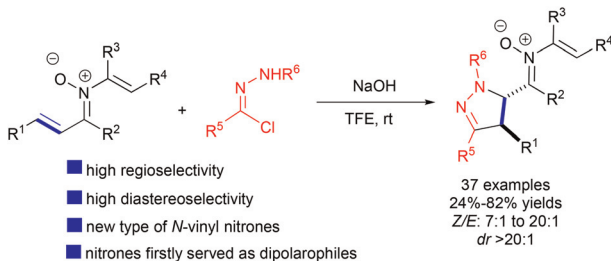
3389



Mechanistic study on the enantiodivergent kinetic resolution of axial chiral binaphthol via the peptide-phosphonium salt-catalyzed Atherton–Todd reaction

Jiajia He, Xingjie Luo, Siqiang Fang, Zhishan Su,* Changwei Hu and Tianli Wang*

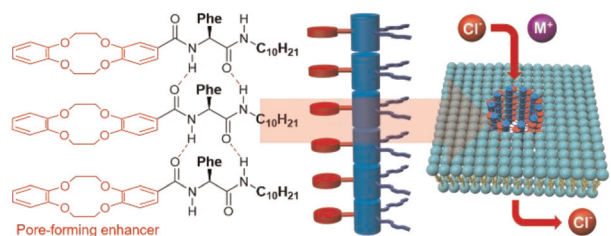
3403



Synthesis of pyrazoline-derived N-vinyl nitrones through an unexpected selective [3 + 2] cycloaddition

Pei-Wen Qiu, Li-Bing Yan, Li-Fen Ning, Chun-Hua Chen,* Hong-Yan Bi* and Dong-Liang Mo*

3409



Dibenzo-12-crown-4 group as a pore-forming enhancer for anion transport

Jisen Fan, Yingxue Xu, Jie Shen, Wenju Chang* and Huaqiang Zeng*

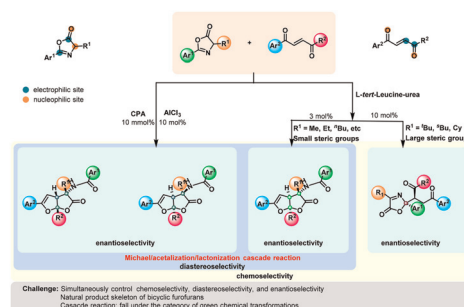


RESEARCH ARTICLES

3417

Switchable divergent organocatalytic asymmetric reactions of azlactones with 1,4-enediones

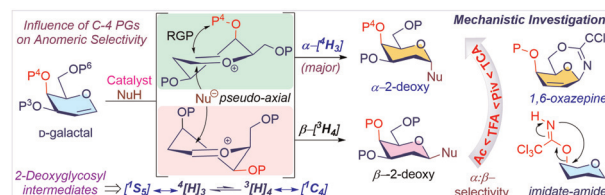
Luyao Li, Dandan Pan, Gongming Zhu, Chenhe Su* and Bo Zhu*



3426

Investigating the stereo-directing effect of remote participating groups on selectivity in the 2-deoxyglycosylation of galactal

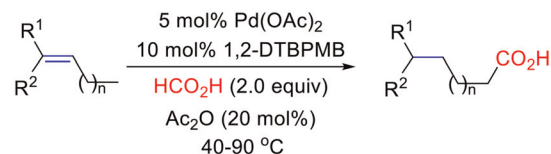
Nitin Kumar, Ankit Yadav and Sudhir Kashyap*



3438

Pd-catalyzed highly regioselective olefin isomerization–hydrocarboxylation with formic acid: a facile approach to synthesize linear carboxylic acids from internal olefins

Junhua Li, Tianci Shen, Yahui Zhuang, Fengyin Wang, Tao Zhu, Yu Fu, Yaqian Min and Yian Shi*

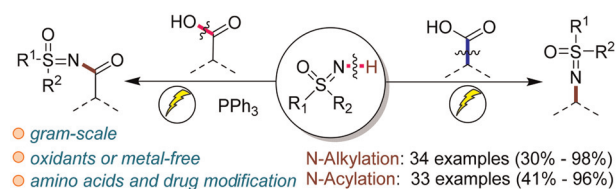


Hydrocarboxylation of internal olefins
up to 98% yield, > 20:1 l/b
Compatible with various functional groups
Mild reaction conditions, operationally simple
No handling of toxic CO gas

3445

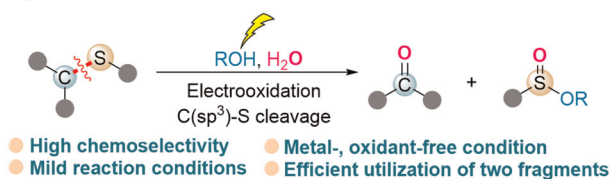
Electrochemical strategies for *N*-alkylation and *N*-acylation of NH-sulfoximines via the decarboxylation and deoxygenation of carboxylic acids

Xiaoman Li, Jiawei Huang, Ji-Xing Zhao, Liang Xu, Ping Liu,* Jichang Liu* and Yu Wei*



RESEARCH ARTICLES

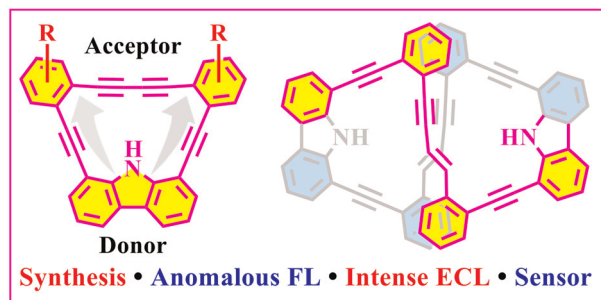
3454



Electrochemical C(sp³)-S bond cleavage of thioethers: an approach for simultaneous utilization of carbon- and sulfur-fragments

Jiawei Huang, Xiaoman Li, Liang Xu* and Yu Wei*

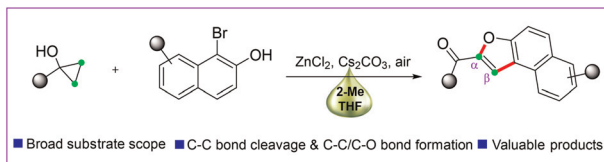
3462



Luminescent carbazole-based electron donor-acceptor rings: synthesis, structure, and application

Peng Xu, Ningwen Sun, Huabi Xie, Yulan Zuo, Xuan Cao, Hongxing Jia, Qiang Huang, Jinjin Ding and Jinling Zhang*

3469

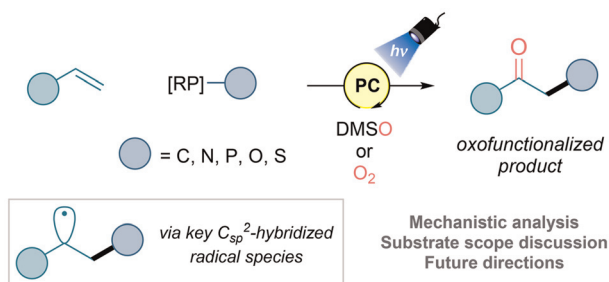


Strain-release driven α,β-difunctionalization of cyclopropanols with bromonaphthols

Feng-Cheng Jia,* Lei-Xiao Luo, Yao-Hui Chen, Qian Xiang, Xiao-Qiang Hu* and Shuang-Xi Gu*

REVIEWS

3475



Recent developments in alkene oxo-functionalization reactions governed by photoredox methods

Pau Sarró, Yingmin Ji, Albert Gallego-Gamo, Carolina Gimbert-Suriñach, Adelina Vallribera* and Albert Granados*

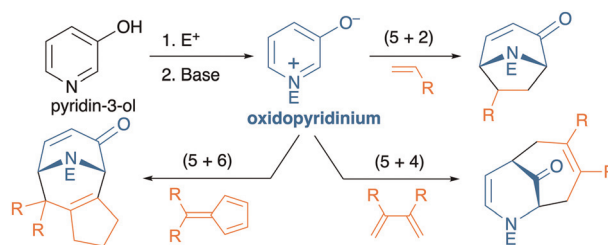


REVIEWS

3493

Update for oxidopyridinium cycloadditions and their synthetic applications: advances after Katritzky's pioneering studies

Yoshihiko Yamamoto



Dearomative transformation of pyridin-3-ol into bridged N-heterocycles.

3521

Single-atom editing for the construction of boron-containing heterocycles

Xue Li, Yi-Ming Chen and Zhi-Gang Xu*

