

Organic & Biomolecular Chemistry

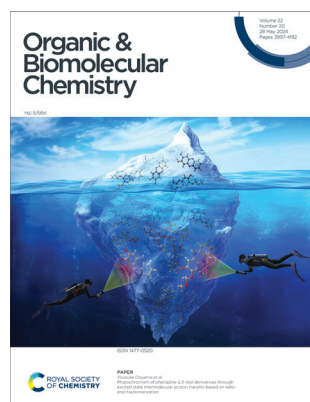
An international journal of synthetic, physical and biomolecular organic chemistry

rsc.li/obc

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 1477-0520 CODEN OBCRAK 22(20) 3997–4192 (2024)



Cover

See Yousuke Ooyama *et al.*,
pp. 4077–4088.

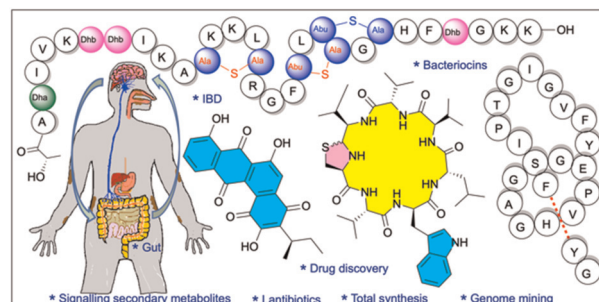
Image reproduced by
permission of
Yousuke Ooyama from
Org. Biomol. Chem., 2024,
22, 4077.

REVIEW

4006

Natural products from the human microbiome: an emergent frontier in organic synthesis and drug discovery

Saumitra Sengupta,* Srihari Pabbaraja* and
Goverdhan Mehta*



COMMUNICATIONS

4031

Me₃SiBr-promoted cascade electrophilic thiocyanation/cyclization of *ortho*-alkynylanilines to synthesize indole derivatives

Qing Wang, Chukai Shao, Ruirui Hua, Hongquan Yin
and Fu-Xue Chen*



Environmental Science: Atmospheres

GOLD
OPEN
ACCESS

Connecting communities
and inspiring new ideas

rsc.li/submittoEA

Fundamental questions
Elemental answers

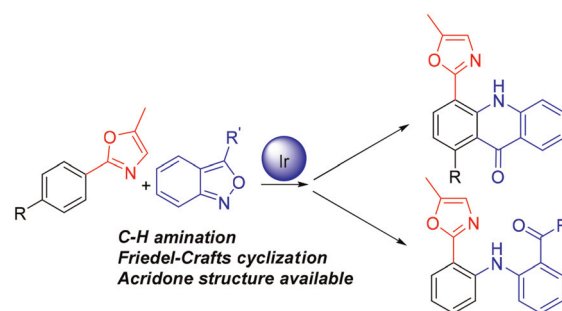


COMMUNICATIONS

4036

Synthesis of acridones via Ir(III)-catalyzed amination annulation of oxazoles with anthranils

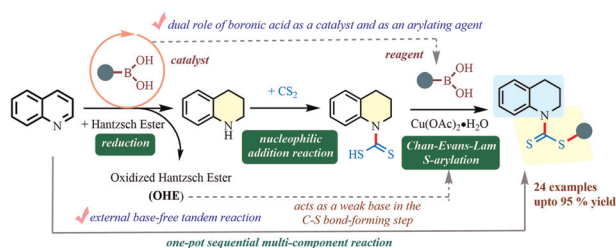
Han-Yi Zhou and Lin Dong*



4041

Facile synthesis of tetrahydroquinoline containing dithiocarbamate derivatives via one-pot sequential multicomponent reaction

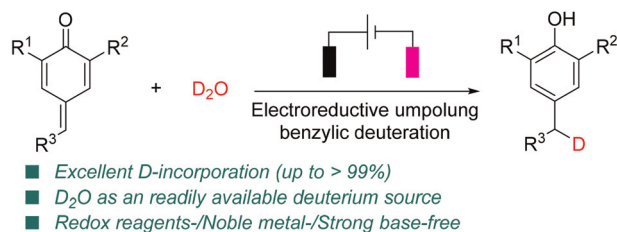
Siddhartha Kumar Senapati, Anit Pal and Animesh Das*



4047

Electrochemical benzylic deuteration of *p*-QMs enabling the synthesis of benzylic deuterated diarylmethanes

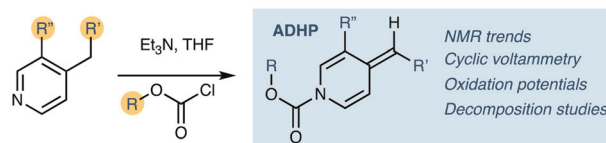
Yunying Yan, Jianjun Hao, Yulin Peng, Mengyun Yin,* Linhai Jing* and Pan Han*



4052

Stability and reactivity of alkylidene dihydropyridines

Matthew Puzhistky, Ekadashi Pradhan, Andrei Nikolaev, Tao Zeng, Dan Fishlock and Arturo Orellana*

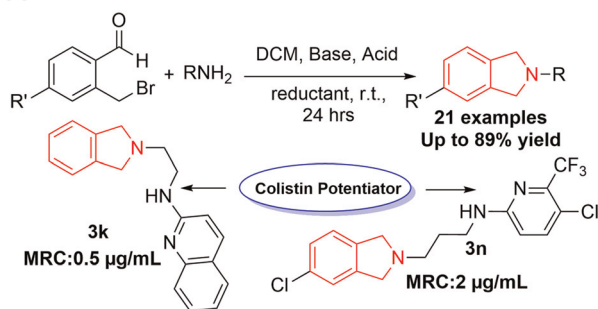


effect of chloroformate and pyridine structure on reactivity and stability of ADHPs



COMMUNICATIONS

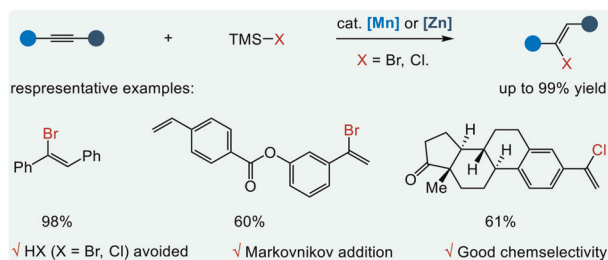
4057



Practical synthesis of isoindolines yields potent colistin potentiators for multidrug-resistant *Acinetobacter baumannii*

Somnath Dutta, Samantha Eyolfson, Yuhang Zhu, Yuefeng Gao and Xiang Wang*

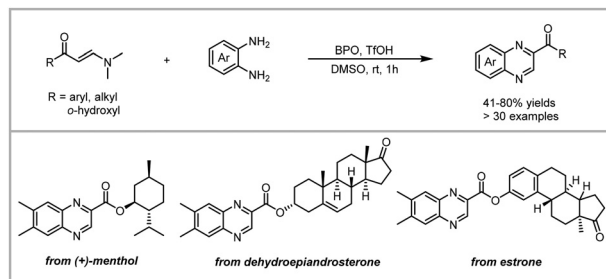
4062



Lewis acid catalyzed Markovnikov hydrobromination and hydrochlorination of alkynes using TMSX (X = Br, Cl)

Dalong Shen, Dehai Cao, Ruizeng Zhang, Peiyuan Bai and Zhenxing Liu*

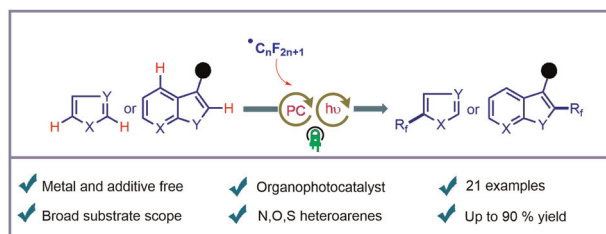
4067



BPO-promoted [4 + 2] cyclization of enaminones and o-phenylenediamines to 2-acyl quinoxalines via a cascade transamination and C–H amination

Heng Feng, Jie Huo, Xiaonan Mu, Renhua Zheng,* Xiao Geng* and Lei Wang

4072



Photoinduced metal-free trifluoro/perfluoroalkylation of heteroarenes

Shashank Singh and Ravi P. Singh*

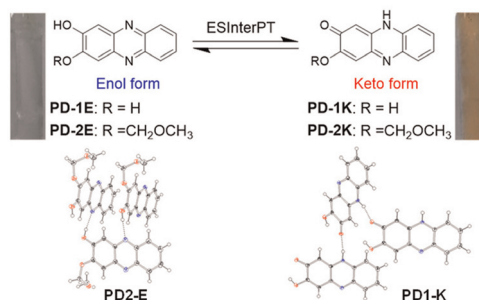


PAPERS

4077

Photochromism of phenazine-2,3-diol derivatives through excited state intermolecular proton transfer based on keto–enol tautomerization

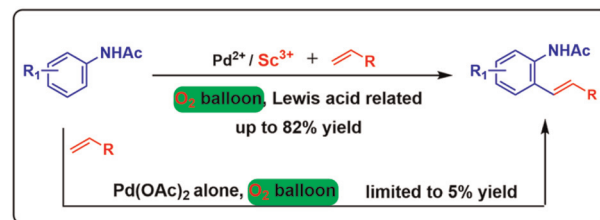
Kazuki Ohira, Kumpei Kozuka, Naoki Kaneda, Masahiro Yamamoto, Keiichi Imato and Yousuke Ooyama*



4089

Pd(II)/LA-catalyzed acetanilide olefination with dioxygen

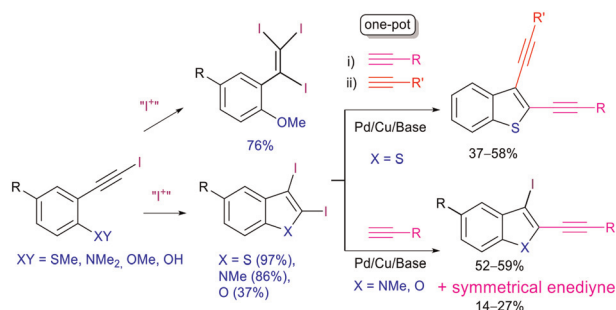
Kaiwen Li, Shuangfeng Dong, Shuang-Long Li, Zhuqi Chen and Guochuan Yin*



4096

Facile synthesis of diiodoheteroindenes and understanding their Sonogashira cross-coupling selectivity for the construction of unsymmetrical enediynes

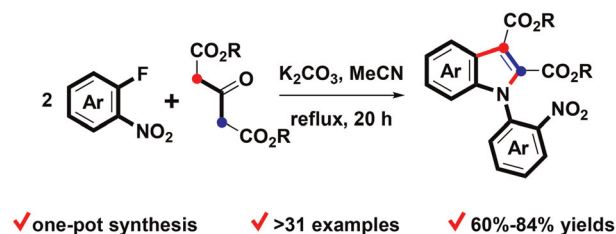
Alexander V. Ponomarev, Natalia A. Danilkina, Julia S. Okuneva, Aleksandra A. Vidyakina, Ekaterina A. Khmelevskaya, Alexander S. Bunev, Andrey M. Rumyantsev, Anastasia I. Govdi, Thomas Suarez, Igor V. Alabugin* and Irina A. Balova*



4108

K₂CO₃-mediated annulation of 1,3-acetonedicarboxylates with 2-fluoro-1-nitroarenes: synthesis of indoles

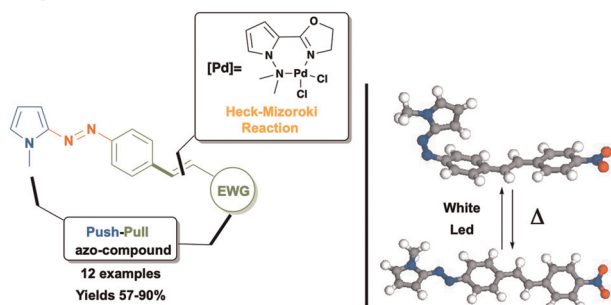
Meng-Yang Chang,* Chin-Huey Ho and Hsing-Yin Chen*



✓ one-pot synthesis ✓ >31 examples ✓ 60%–84% yields



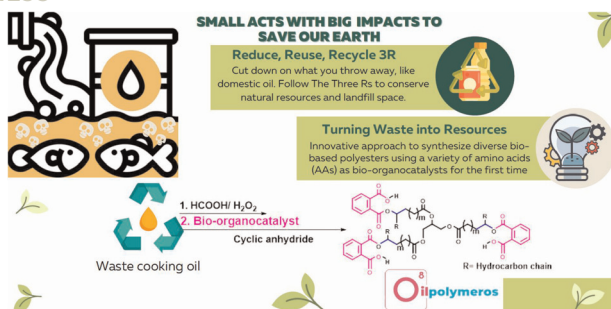
4123



Structure and isomerization behavior relationships of new push–pull azo-pyrrole photoswitches

D. Gallardo-Rosas, J. M. Guevara-Vela, T. Rocha-Rinza, R. A. Toscano, J. G. López-Cortés and M. C. Ortega-Alfaro*

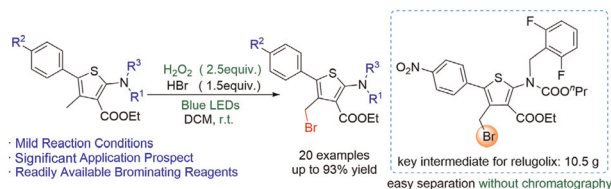
4135



Amino acids as bio-organocatalysts in ring-opening copolymerization for eco-friendly synthesis of biobased oligomers from vegetable oils

Francisca Werlinger, Monserrat Beroiza-Duhart, Oscar A. Douglas-Gallardo, Silvia Oyarzo-Aro, Maria Luisa Valenzuela, Oleksandra S. Trofymchuk,* Mario E. Flores* and Javier Martínez*

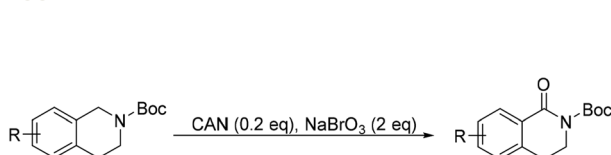
4145



Visible-light-induced C(sp³)–H bromination of 4-methylthiophene derivatives with HBr/H₂O₂

Wenbo Song, Ming Ma, Wenjing Zhang, Ranran Feng, Congcong Lu, Hong-Yu Zhang,* Yuecheng Zhang* and Jiquan Zhao

4153



Efficient and scalable synthesis of 3,4-dihydroisoquinolin-1(2H)-ones by benzylic oxidation of tetrahydroisoquinoline derivatives using cerium ammonium nitrate (CAN)

Jiajun Luo, Zhilong Li, Jiaxin He, Tong Li, Daochen Wu, Yang Lai and Haiying Sun*

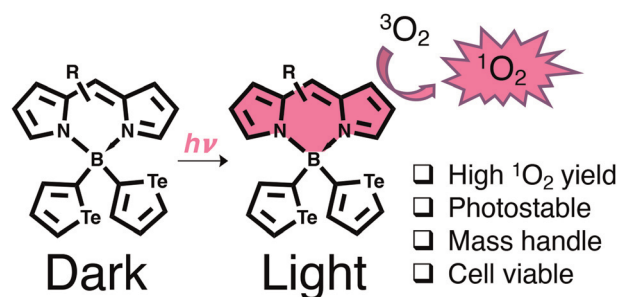


PAPERS

4157

A series of potent BODIPY photosensitisers featuring tellurophene motifs at boron

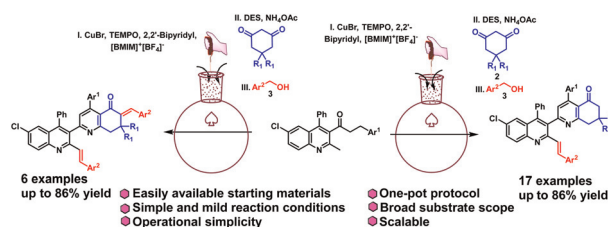
Jacob W. Campbell, Matthew T. Tung, Breanna B. Taylor, Andrew A. Beharry* and Alison Thompson*



4163

Copper-catalyzed dehydrogenative cyclization/alkenylation towards dihydroquinolinones

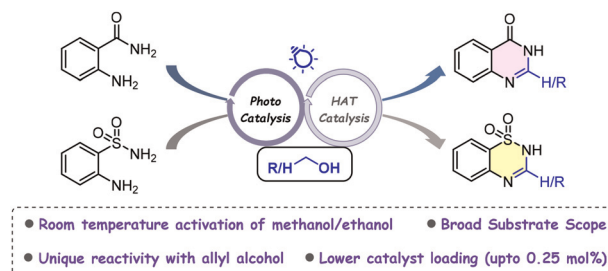
Keerthana Pari and Nawaz Khan Fazlur-Rahman*



4172

Visible light-mediated synthesis of quinazolinones and benzothiadiazine-1,1-dioxides utilizing aliphatic alcohols

Saloni Kumari, Souvik Roy, Pragya Arora and Sabuj Kundu*



4179

Polyketides with α -glucosidase inhibitory and neuroprotective activities from *Aspergillus versicolor* associated with *Pedicularis sylvatica*

Ting-Ting Jiang, Liang-Liang Zhai, Zi-Jue Wang, Xin-Yu Wang, Jian-Nan Li, Yi-Jie Zhai, Ding Li and Wen-Bo Han*

