

Organic & Biomolecular Chemistry

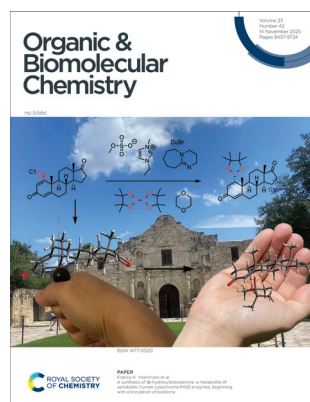
An international journal of synthetic, physical and biomolecular organic chemistry

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 23(42) 9457-9724 (2025)



Cover

See Francis K. Yoshimoto *et al.*, pp. 9618–9623.

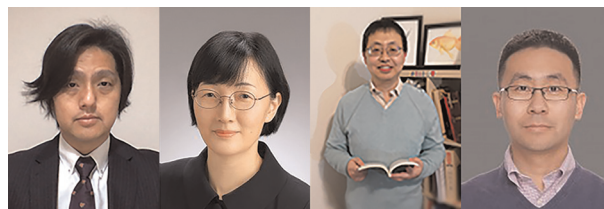
Image reproduced by permission of Francis K. Yoshimoto from *Org. Biomol. Chem.*, 2025, **23**, 9618.

EDITORIAL

9467

Introduction to foldamers

Makoto Oba, Aya Tanatani, Jianfeng Cai and Peng Teng

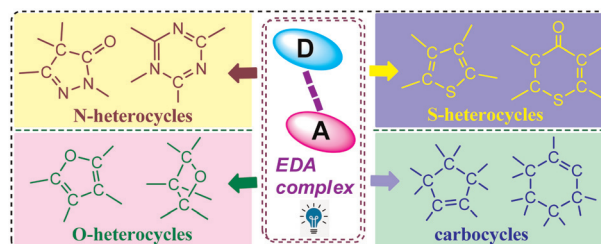


REVIEWS

9469

EDA complex-enabled annulation

Suven Das



Industrial Chemistry & Materials

GOLD
OPEN
ACCESS

Focus on industrial chemistry
Advance material innovations
Highlight interdisciplinary feature

Innovative.
Interdisciplinary.
Problem solving

APCs currently waived

Learn more about ICM
Submit your high-quality article

 [@IndChemMater](#)

 [@IndChemMater](#)

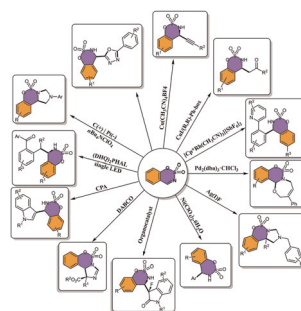
rsc.li/icm

REVIEWS

9509

Six-membered cyclic sulfamidate imines: functionalization and cyclization reactions

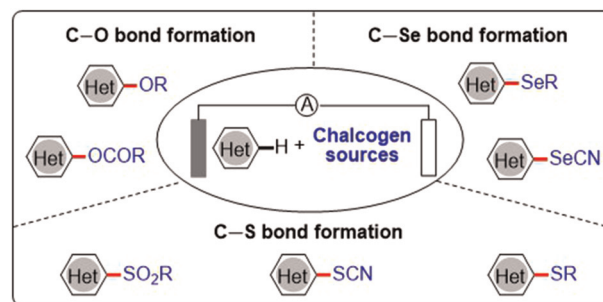
Fatemeh Doraghi, Mohammad Hadi Edareh, Bagher Larjani and Mohammad Mahdavi*



9537

Recent advances in electrochemical C–H chalcogenation (O/S/Se) of heteroaromatics

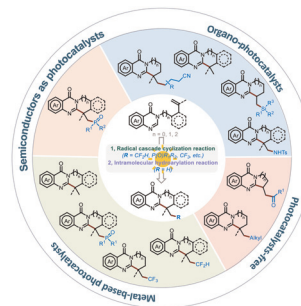
Xianhui You, Xiaotong Gao,* Yuechuan Wang* and Ke-Jin Jiao*



9554

Recent advances in photo-induced synthesis of polycyclic quinazolinones from unactivated alkene-tethered quinazolinones

Yu-Xin Luo, Fan-Lin Zeng,* Teck-Peng Loh* and Zhenhua Jia*

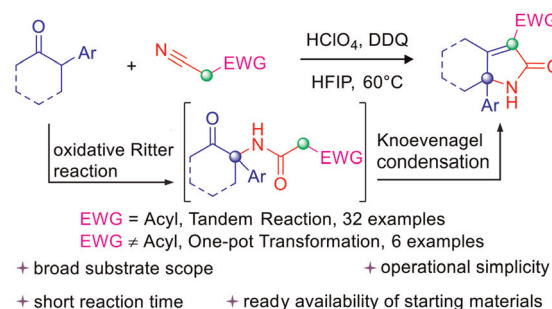


COMMUNICATIONS

9570

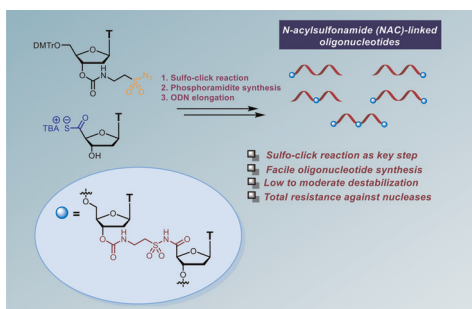
Preparation of $\alpha,\beta,\gamma,\gamma$ -tetrasubstituted α,β -unsaturated γ -lactams via a tandem or one-pot oxidative Ritter reaction/Knoevenagel condensation

Yu-Ting Chen, Yue-Hong Hu, Zhang-Yan Gan, Chun-Yu Yu, Juxin Mo, Meng-En Chen, Xiao-Ming Zhang* and Fu-Min Zhang*



COMMUNICATIONS

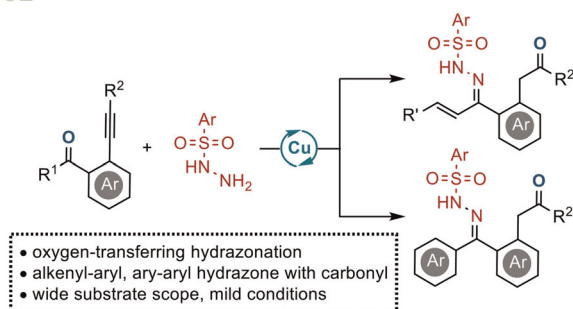
9576



Synthesis, duplex-forming properties, and enzymatic resistance of oligonucleotides containing *N*-acylsulfonamide linkages

Romain Amador, Carine Baraguey, Guillaume Clavé* and Michael Smietana*

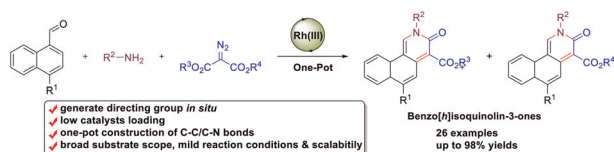
9582



Cu-catalyzed oxygen-transferring hydrazone formation of enynes

Shaotong Qiu,* Yangxin Mao, Zhicheng Yang, Jiangan Liu, Yimin Shanguan, Xinlei Wang, Chun Zou, Yun-Hui Zhao, Baishu Zheng and Hu Zhou

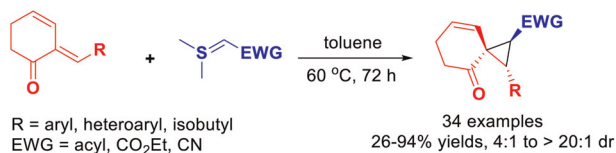
9587



One-pot three-component synthesis of benzo[*h*]isoquinolin-3-ones via rhodium(III)-catalyzed C–H activation

Weihong Song,* Xiaomei Jiang, Weiguo Yu and Ziwei Xiang*

9592



Diastereoselective spirocyclopropanation of (*E*)-2-ylidene-3-cyclohexenones and sulfur ylides

Zheng-Yan Li, Xing Zheng, Yi-Na Ma, Mingwei Yuan, Yin Zhang, Lin Jiang* and Minglong Yuan*

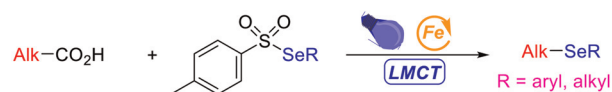


COMMUNICATIONS

9597

Iron catalysis enables mild C–Se bond formation via decarboxylative selenylation

Xixi Hu, Wenhao Li, Xin Huang, Qingkun Ma, Hui Liu, Yu-Zhao Wang* and Lizhi Zhang*

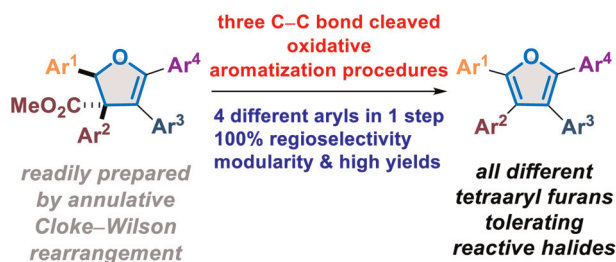


- Up to 96% yield, > 30 examples
- Earth abundant catalyst
- Excellent functional group tolerance
- Room temperature

9602

Expedient regioselective synthesis of all-different tetraaryl furans

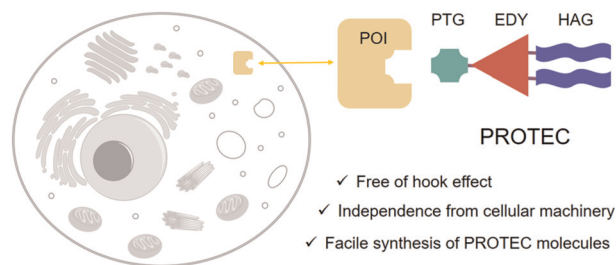
Shixuan Bu, Haoran Wang and Sunewang R. Wang*



9608

A chimeric enediyne for targeted degradation of a tumor-associated protein

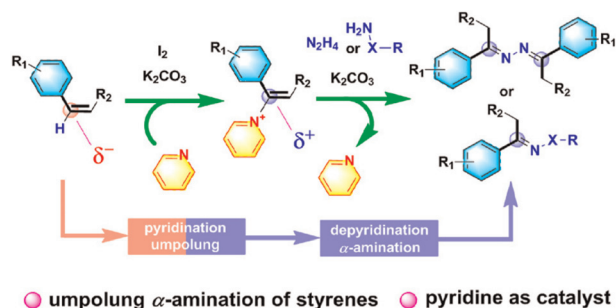
Fangxu Pu, Xuejie Li, Haonan Cheng, Jiaming Lan* and Aiguo Hu*



9613

A pyridine-promoted umpolung strategy for the α -amination of styrenes via pyridinium salt intermediates

Weibin Fan, Shahid Ali, Xiaozhong Wang, Liyan Dai, Jianhai Yang* and Jia Guo*

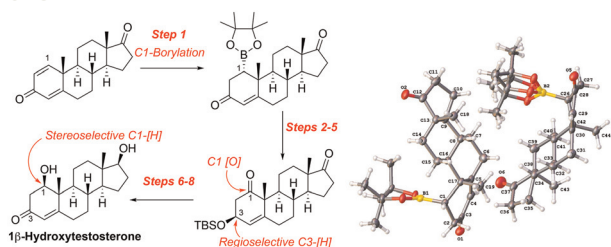


- umpolung α -amination of styrenes
- pyridine as catalyst



PAPERS

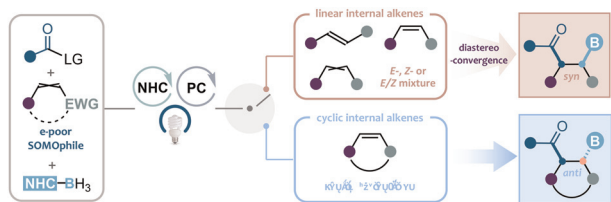
9618



A synthesis of 1 β -hydroxytestosterone, a metabolite of xenobiotic human cytochrome P450 enzymes, beginning with a borylation of boldione

Anna I. Elizondo, Kevin D. McCarty, Hadi D. Arman, F. Peter Guengerich and Francis K. Yoshimoto*

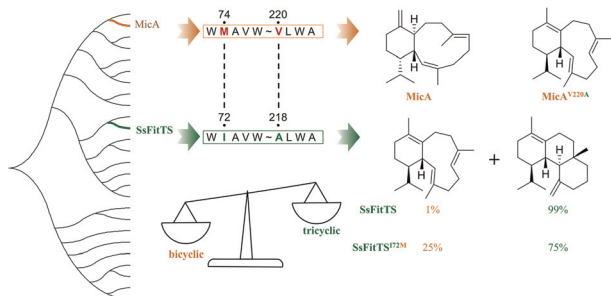
9624



Diastereoconvergence in NHC/photo dual-catalysis: stereoselective boroacylation of internal electron-poor alkenes

Xiang Zhang, Bin Zhang, Ya-Peng Wang, Mei-Ling Tang, Qian-Xi Zhang, Hao Liu, Jia-Tao Hu, Ting Qi* and Jun-Long Li*

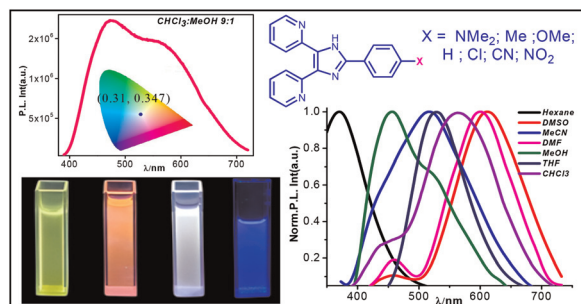
9635



Phylogeny-directed discovery and mutagenesis of a tricyclic gersemiane synthase

Xiaochen Chen, Bao Chen and Baofu Xu*

9644



Substituted pyridil-imidazole derivatives as red–green–blue (RGB) as well as white-light emitters

Raju Biswas, Tuhin Abedin, Srikanta Karmakar and Sujoy Baitalik*

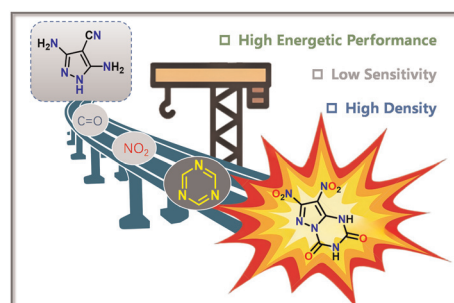


PAPERS

9652

Design, synthesis and characterization of a carbonyl-containing high-density pyrazolotriazine-based energetic compound

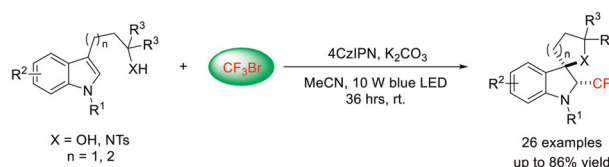
Huanyu Sun, Zhiwei Zeng, Chunhui Chen, Xiancheng Mai, Jia Wang, Wei Huang, Yongxing Tang* and Yuji Liu*



9658

Photo-induced radical trifluoromethylation/dearomatization of 3-substituted indoles

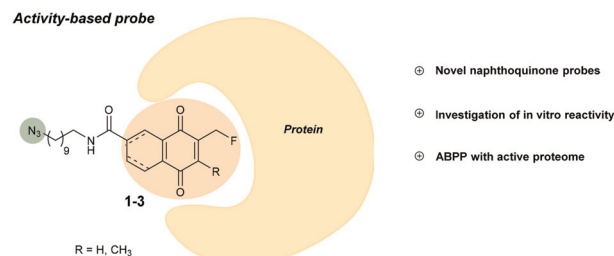
Yuyu Lv, Zhoubin Deng, Zhijun Zhu, Xiaopeng Hai, Junjiao Wang, Ke-Hu Wang, Danfeng Huang and Yulai Hu*



9668

Synthesis and evaluation of naphthoquinone-based probes for activity-based protein profiling of oxidoreductases

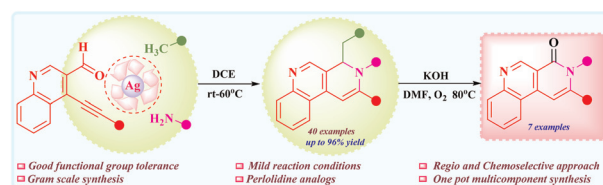
Leo Krammer, Barbara Darnhofer and Rolf Breinbauer*



9677

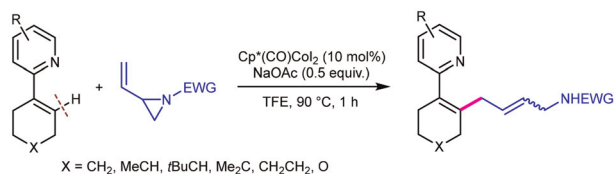
Silver-catalyzed synthesis of polyfunctionalized 1,7- and 2,7-benzonaphthyridine scaffolds and access to perlolidine derivatives

Kirti Vashishtha, Kapil Chahal, Namita Bhoi, Donamol Tomy, Balasubramanian Sridhar, Manjula Alla* and Kallu Rajender Reddy*



PAPERS

9683



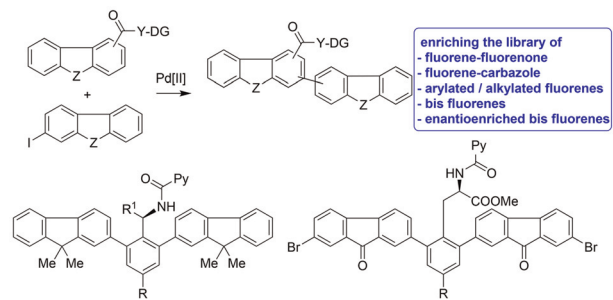
simple reaction system
atom economy
wide substrate scope

nitrogen-containing group retention
short reaction time
good tolerance towards functional groups

Co(III)-catalyzed allylation reaction of 2-alkenylpyridines with 2-vinylaziridines: access to 1,4-dienes

Hong Zeng and Zhong-Xia Wang*

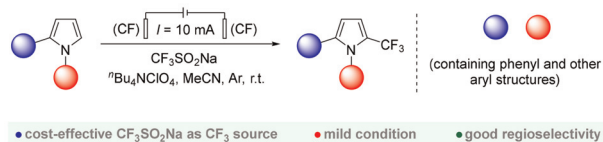
9692



Modification of fluorene and fluorenone core via C–H functionalization

Shefali Banga and Srinivasarao Arulananda Babu*

9713



Selective electrochemical trifluoromethylation of arylamide- or aryl-substituted pyrrole derivatives

Zhanshuo Zhang, Yangkai Dong, Yaxin Liu, Jingrui Fang, Yuchen Li, Zeya Xu and Yulei Zhao*

