

# Organic & Biomolecular Chemistry

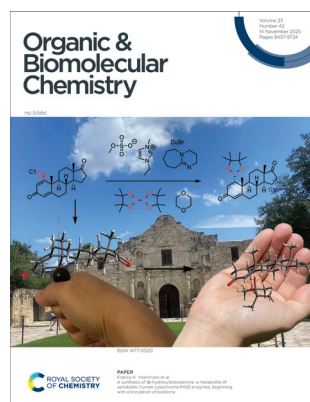
An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 23(42) 9457-9724 (2025)



### Cover

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

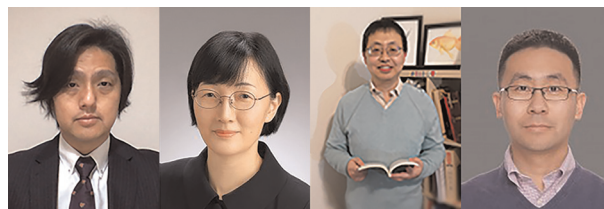
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## EDITORIAL

9467

### Introduction to foldamers

Makoto Oba, Aya Tanatani, Jianfeng Cai and Peng Teng

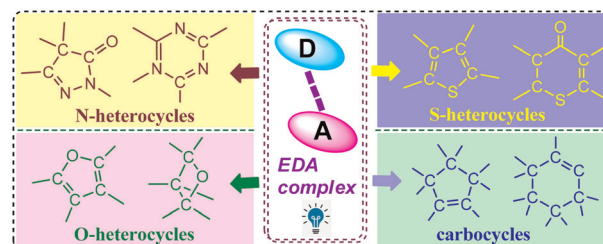


## REVIEWS

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### EDA complex-enabled annulation

Suven Das



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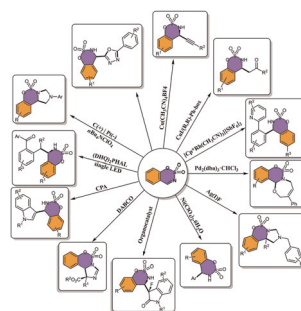
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## REVIEWS

9509

**Six-membered cyclic sulfamidate imines: functionalization and cyclization reactions**

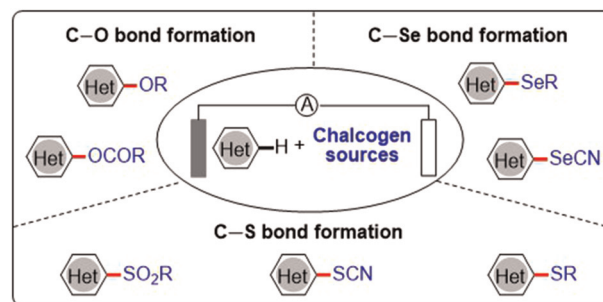
Fatemeh Doraghi, Mohammad Hadi Edareh, Bagher Larijani and Mohammad Mahdavi\*



9537

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

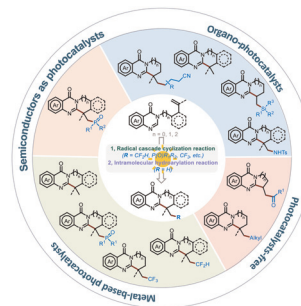
Xianhui You, Xiaotong Gao,\* Yuechuan Wang\* and Ke-Jin Jiao\*



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\*

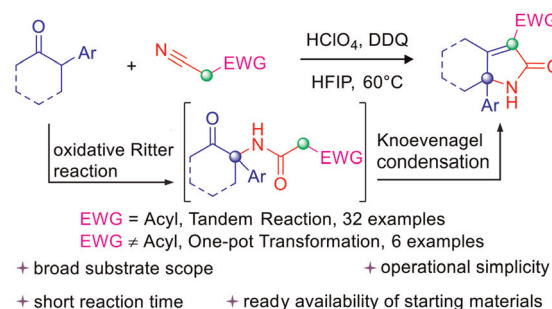


## COMMUNICATIONS

9570

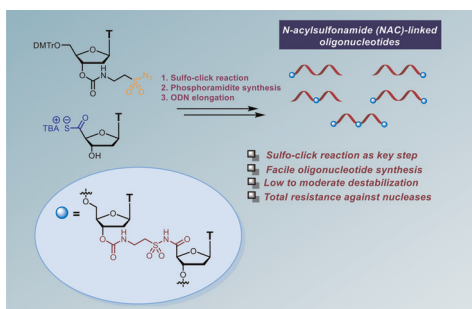
**Preparation of  $\alpha,\beta,\gamma,\gamma$ -tetrasubstituted  $\alpha,\beta$ -unsaturated  $\gamma$ -lactams via a tandem or one-pot oxidative Ritter reaction/Knoevenagel condensation**

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

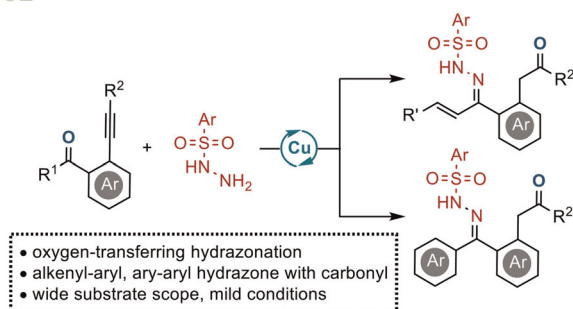
9576



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

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

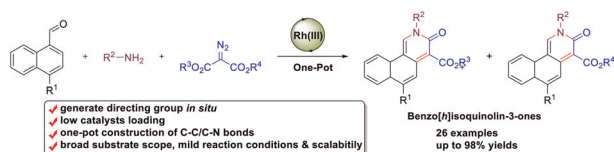
9582



### 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

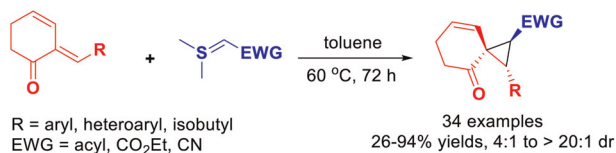
9587



### 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\*

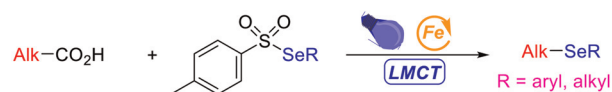


## COMMUNICATIONS

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**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\*

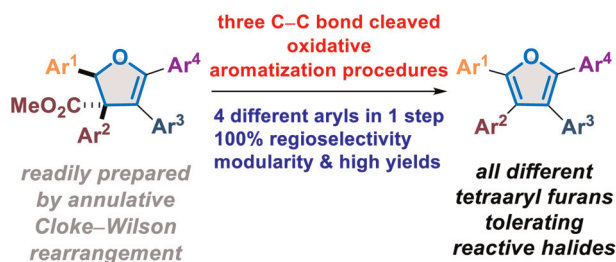


- Up to 96% yield, > 30 examples
- Earth abundant catalyst
- Excellent functional group tolerance
- Room temperature

9602

**Expedient regioselective synthesis of all-different tetraaryl furans**

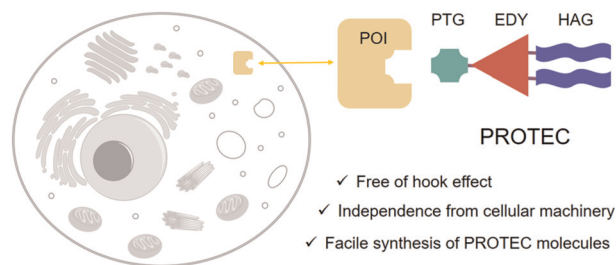
Shixuan Bu, Haoran Wang and Sunewang R. Wang\*



9608

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

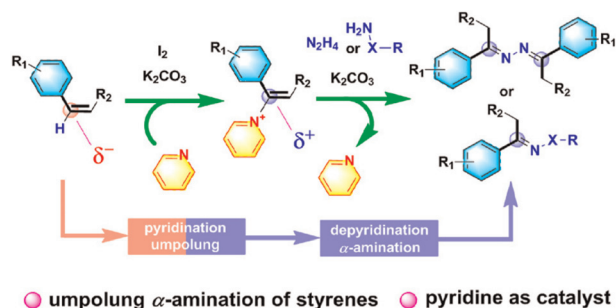
Fangxu Pu, Xuejie Li, Haonan Cheng, Jiaming Lan\* and Aiguo Hu\*



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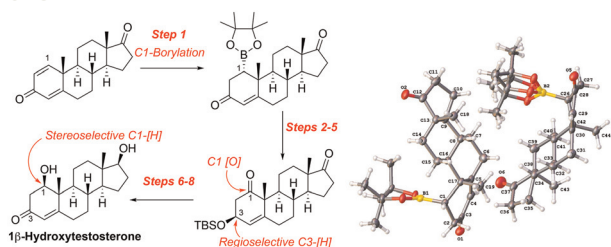
**A pyridine-promoted umpolung strategy for the  $\alpha$ -amination of styrenes via pyridinium salt intermediates**

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



## PAPERS

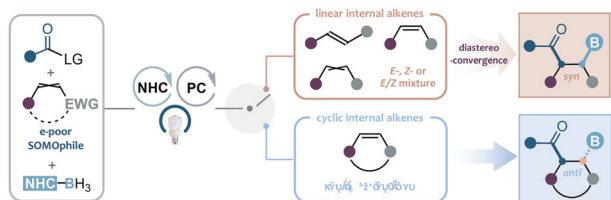
9618



### A synthesis of 1 $\beta$ -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\*

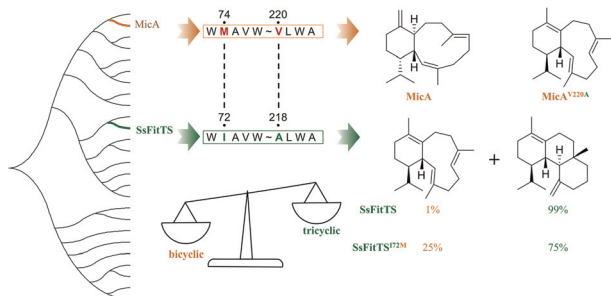
9624



### 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\*

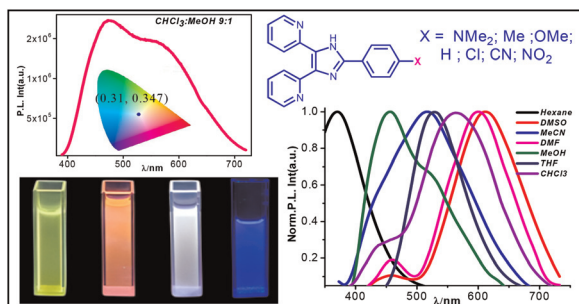
9635



### 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\*

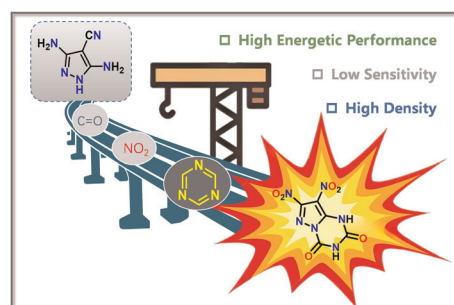


## PAPERS

9652

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

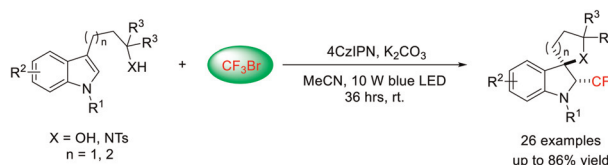
Huanyu Sun, Zhiwei Zeng, Chunhui Chen, Xiancheng Mai, Jia Wang, Wei Huang, Yongxing Tang\* and Yuji Liu\*



9658

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

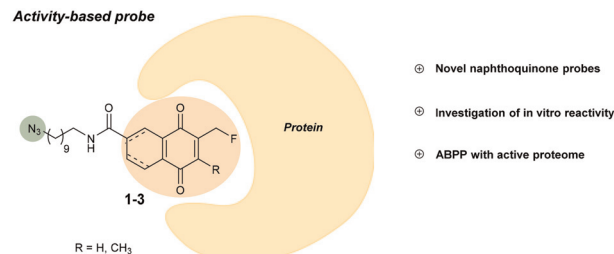
Yuyu Lv, Zhoubin Deng, Zhijun Zhu, Xiaopeng Hai, Junjiao Wang, Ke-Hu Wang, Danfeng Huang and Yulai Hu\*



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

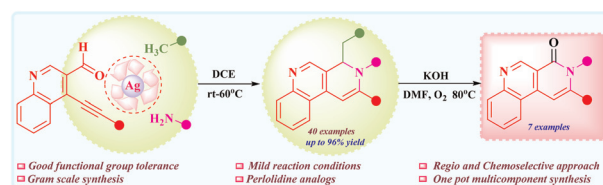
Leo Krammer, Barbara Darnhofer and Rolf Breinbauer\*



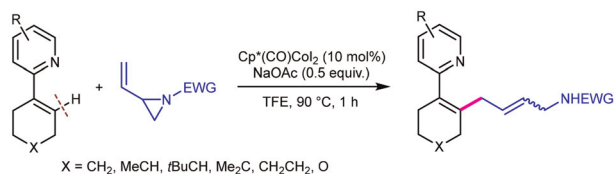
9677

### 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\*



9683



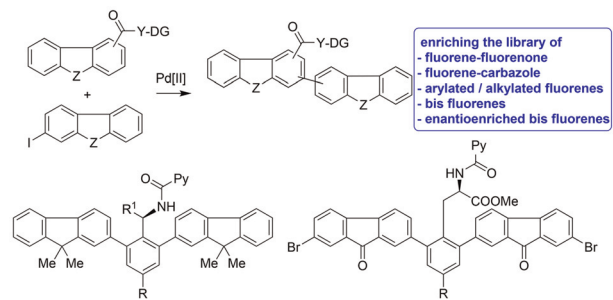
simple reaction system  
atom economy  
wide substrate scope

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\*

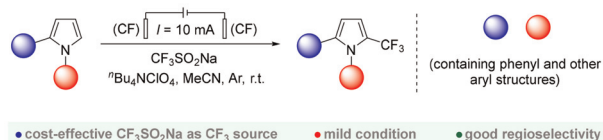
9692



### 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\*

