

Organic & Biomolecular Chemistry

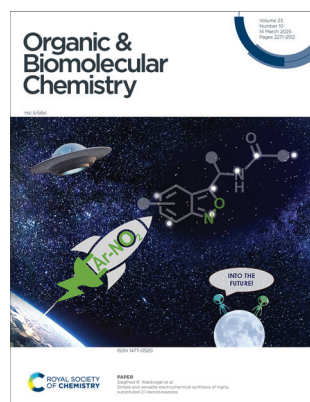
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Siegfried R. Waldvogel
et al., pp. 2391–2399.

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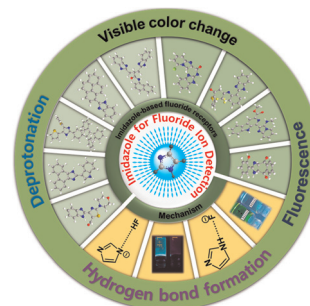
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REVIEWS

2281

A comprehensive review of the imidazole, benzimidazole and imidazo[1,2-a]pyridine-based sensors for the detection of fluoride ion

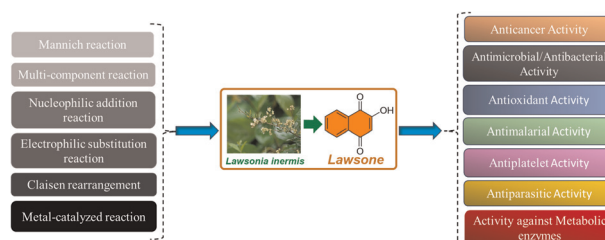
Annu Kumari, Chandan Kumar Maity* and Swapan Dey*



2302

Advancements in synthetic methodologies and biological applications of lawsone derivatives

Ananya Dash, Jasmine Panda, Barsha Samanta and Seetaram Mohapatra*



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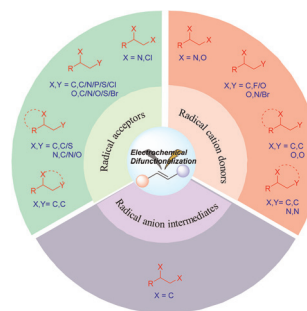
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**Fundamental questions
Elemental answers**

Mingming Zhang, Ting Liu, Xue-Qiu Chen, Huile Jin,
Jing-Jing Lv, Shun Wang, Xiaochun Yu,*
Chuntian Yang* and Zheng-Jun Wang*

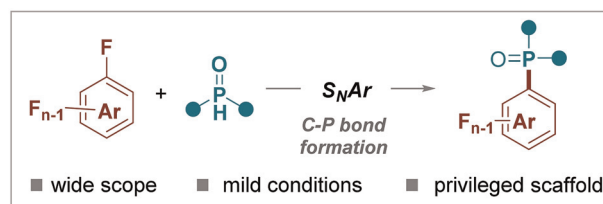
Mingming Zhang, Ting Liu, Xue-Qiu Chen, Huile Jin,
Jing-Jing Lv, Shun Wang, Xiaochun Yu,*
Chuntian Yang* and Zheng-Jun Wang*



2358

Bingqian Sun, Yu-Ting Liang, Meng-Ting Xiang,
Jun-Tao Ai, Shuai Wang, Hong Zhong, Jia Yang* and
Hao-Yue Xiang*

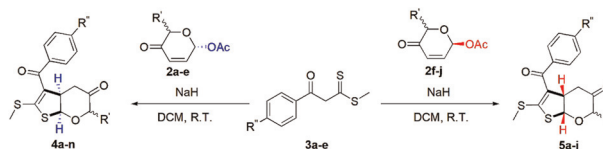
Bingqian Sun, Yu-Ting Liang, Meng-Ting Xiang,
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2362

Shihao Cheng, Xiao Ni, Guanyou Cui, Chenhu Dong,
Yujie Ma, Jinlong Li, Xiaofeng Bao* and Yu Zhao*

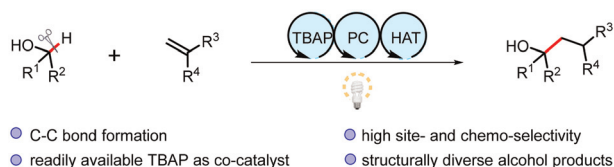
Shihao Cheng, Xiao Ni, Guanyou Cui, Chenhu Dong,
Yujie Ma, Jinlong Li, Xiaofeng Bao* and Yu Zhao*



2365

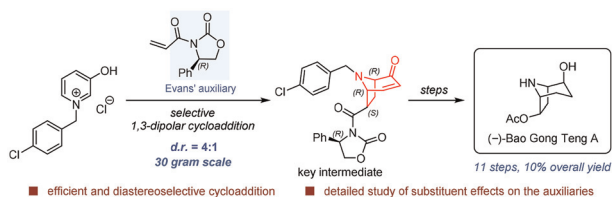
Mingzhong Wu,* Yaru Wang, Xin Lv, Zhengxian Ma,
Xiaojing Sheng, Mengjie Wang, Yalin Zhang, Zhenyu An*
and Xuekun Wang*

Mingzhong Wu,* Yaru Wang, Xin Lv, Zhengxian Ma,
Xiaojing Sheng, Mengjie Wang, Yalin Zhang, Zhenyu An*
and Xuekun Wang*



COMMUNICATIONS

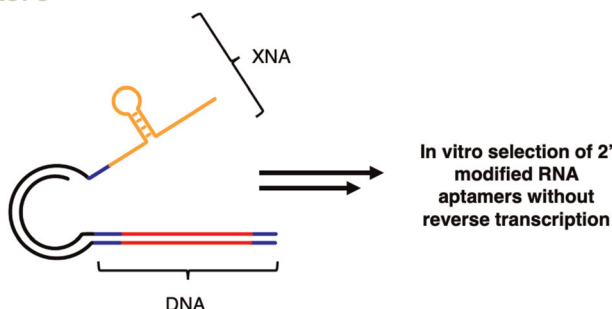
2370



Concise asymmetric synthesis of (–)-Bao Gong Teng A via Evans chiral auxiliary-based 1,3-dipolar cycloaddition

Yi-Wen Zhao, Jun-Fei Wang, Jianrong Xu, Hongzhuan Chen,* Yun-Xuan Tan* and Ping Tian*

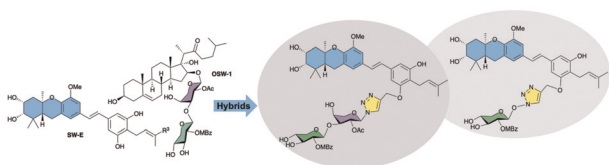
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A system for in vitro selection of fully 2'-modified RNA aptamers

Emily D. Ziperman, Kate B. Fitzpatrick, Malavika A. Nair, Alexander W. Sorum, Linda C. Hsieh-Wilson and Isaac J. Krauss*

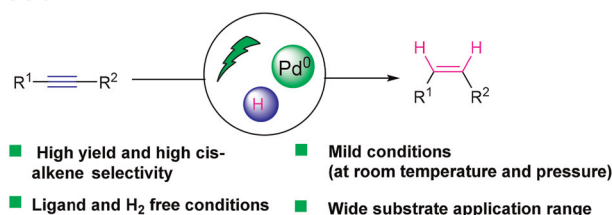
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Fast and effective preparation of highly cytotoxic hybrid molecules of schweinfurthin E and OSW-1

Baptiste Schelle, Jules Fargier, Clément Grisel, Laurie Askenatzis, Jean-François Gallard, Sandy Desrat, Jérôme Bignon, Fanny Roussi* and Stéphanie Norsikian*

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Chemo- and stereoselective synthesis of Z-alkenes via electrochemical Pd-catalyzed alkyne reduction

Haoxiang Zhang, Wentao Cui, Xiaoyan Jin, Yuhuan Yang* and Xiao Zhang*



PAPERS

2391

Simple and versatile electrochemical synthesis of highly substituted 2,1-benzisoxazoles

Marola S. Lenhard, Johannes Winter, Alexander Sandvoß, María de Jesús Gálvez-Vázquez, Dieter Schollmeyer and Siegfried R. Waldvogel*

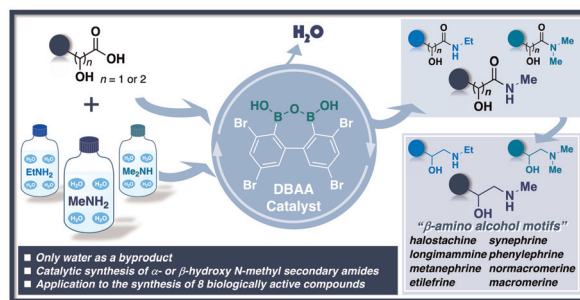


- ✓ 39 examples in up to 81% yield
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- ✓ mechanistic insights

2400

Synthesis of *N*-methyl secondary amides via diboronic acid anhydride-catalyzed dehydrative condensation of carboxylic acids with aqueous methylamine

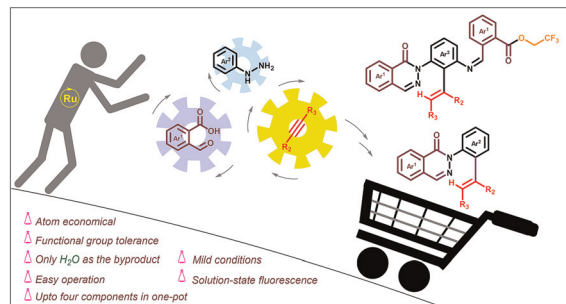
Hinata Iwasawa, Naoya Takahashi and Naoyuki Shimada*



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An expedient ruthenium(II) catalyzed multicomponent access to phthalazinones bearing trisubstituted alkenes

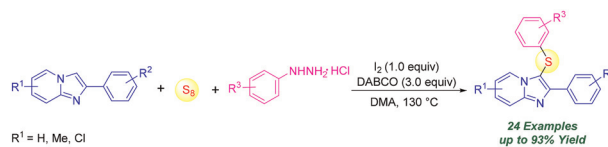
Manikandan Sekar, Ramdas Sreedharan, Egambaram Premkumar, Rajeshwaran Purushothaman and Thirumanavelan Gandhi*



2418

Iodine-mediated regioselective C-3 sulfenylation using elemental sulfur and arylhydrazine hydrochloride to access 3-sulfenylated imidazo[1,2-*a*]pyridines

Kaushal Kishor, Neha Sharma Prabhakar and Krishna Nand Singh*

R¹ = H, Me, ClR² = H, Me, F, Cl, CN, SO₂Me, NO₂, 4-PhR³ = H, Me, OMe, F, Cl, Br, CF₃

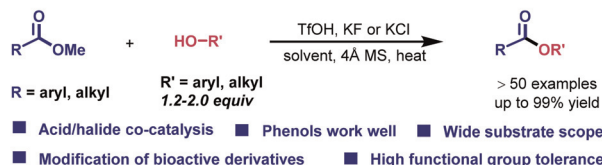
- Transition-metal-free
- Operational simplicity
- Broad substrate scope



PAPERS

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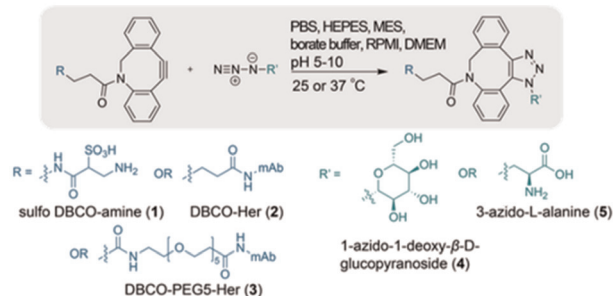
Transesterification of unactivated carboxylic esters with both phenols and alcohols



Acid/halide co-mediated transesterification of unactivated carboxylic esters with O–H nucleophiles

Dongxu Zuo, Chenglong Li, Qiang Wu, Qun Wang, Tianzeng Huang, Long Liu* and Tieqiao Chen*

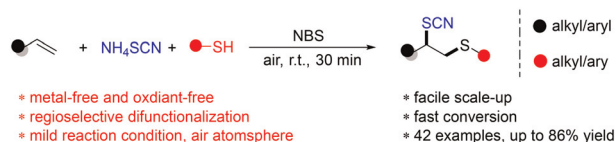
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The effects of buffer, pH, and temperature upon SPAAC reaction rates

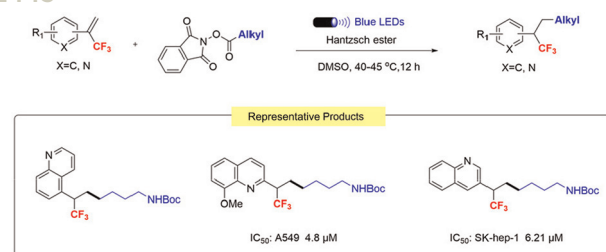
Toni A. Pringle and James C. Knight*

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NBS-promoted regioselective thiocyanatothiolsation of alkenes with free thiols and NH_4SCN

Wei Chen,* Run Wu, Wanxiang Wang, Haiping Zhou and Mingyue Fu

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Photo-induced decarboxylative coupling reaction between aliphatic *N*-hydroxyphthalimide esters and terminal 2-trifluoromethylalkenes

Man Chen, Chaoyu Wang, Lang Xie, Ting Mao, Long Xiao, Ze Wang, Wen-Yong Han, Ping Liu* and Jia Jia*

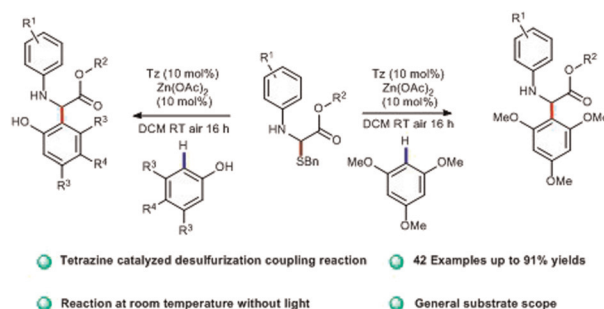


PAPERS

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A new tetrazine catalytic system for the synthesis of *N*-aryl- α -arylated glycine ester derivatives

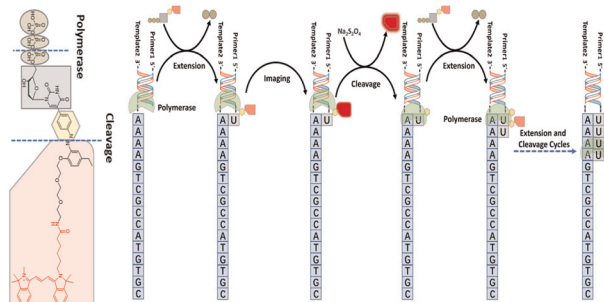
Shunqi Tu, Tiantian Chen, Zijian Yuan and Jianchun Wang*



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Design and synthesis of fluorescent-dye-labeled nucleotide with a new cleavable azo linker for DNA sequencing by synthesis

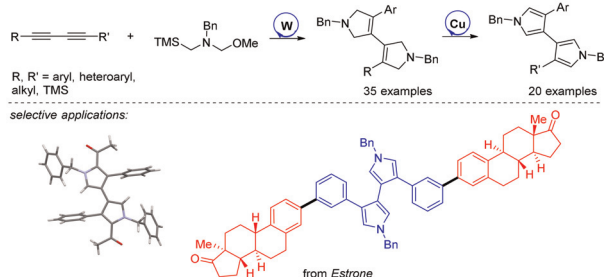
Bo-Wei Tang, Ping-Yang Wang and Yu-Mei Shen*



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Synthesis of the 3,3'-bipyrrole scaffold from diyne

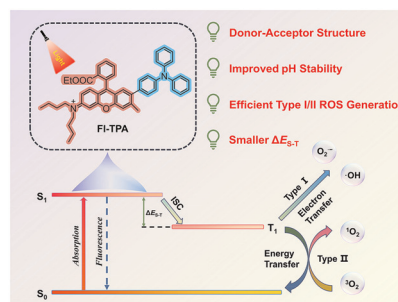
Wentao Zhang, Luyao Wang, Yufeng Zhou, Zhifang Chen, Heng-Ying Xiong* and Guangwu Zhang*



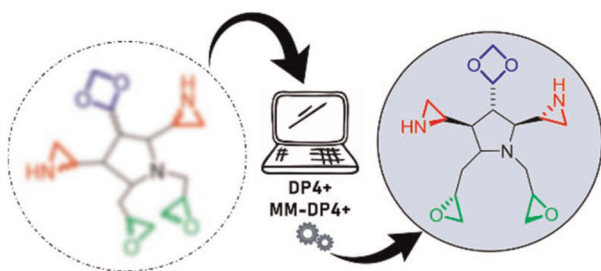
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A pH stable fluoran-triphenylamine photosensitizer with efficient type I and type II ROS generation

Yinuo Gu, Bo Li, Shuao Zhang, Shuhong Bao, Wenjie Yang, Wei Yang, Hongdian Lu, Chunxiang Wei, Man-Bo Li* and San-E. Zhu*



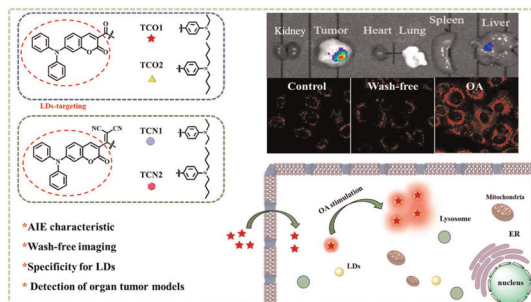
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Overcoming the ring tension: computational approaches to stereochemical assignments and geometrical insights in small heterocycles

Ezequiel R. Luciano, Milagros Amichetti, Ariel M. Sarotti* and Maria M. Zanardi*

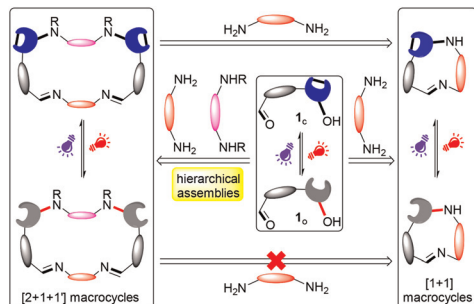
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A wash-free AIE fluorescent probe for monitoring lipid droplets and identifying tumors

Xue Zhang, Jie Wang, Sichen Zhang, Jiale Li, Aobo Sun, Tianjian Wei, Chunfei Wang, Lei Hu,* Lutan Zhou* and Hui Wang*

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Precise assembly/disassembly of homo-type and hetero-type macrocycles with photoresponsive and non-photoresponsive dynamic covalent bonds

Junmiao Deng, Hanwei Lu, Hebo Ye, Yu Hai, Zimu Liu and Lei You*

