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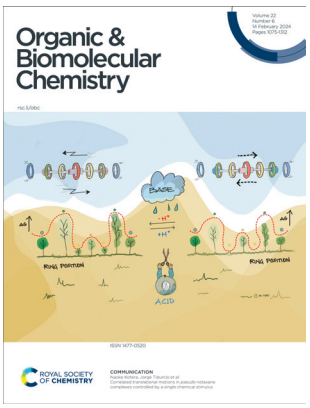
IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 22(6) 1075–1312 (2024)



Cover
See Naoko Kotera, Jorge Tiburcio *et al.*, pp. 1135–1140.
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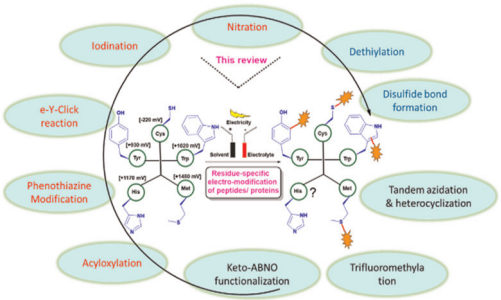
REVIEWS

1085

Electrochemistry-enabled residue-specific modification of peptides and proteins

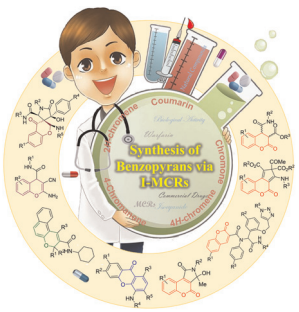
Ayan Bandyopadhyay, Pranay Biswas, Sudipta K. Kundu and Rajib Sarkar*



1102

Isocyanide-based multicomponent reactions for the synthesis of benzopyran derivatives with biological scaffolds

Mohammad Taghi Nazeri, Tahereh Nasiriani, Saeed Torabi and Ahmad Shaabani*



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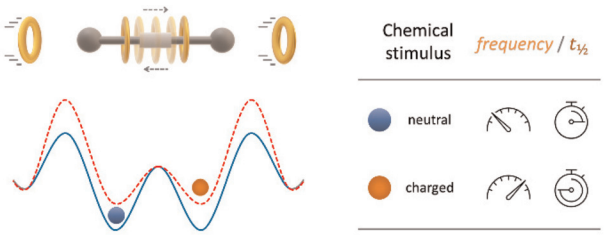
COMMUNICATIONS

1135

Correlated translational motions in *pseudo*-rotaxane complexes controlled by a single chemical stimulus

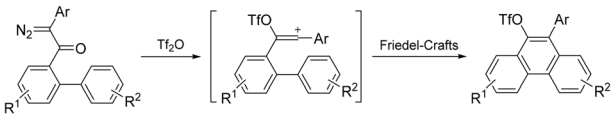
Naoko Kotera,* Pilar Montellano, Aldo C. Catalán, Anayeli Carrasco-Ruiz, Ruy Cervantes and Jorge Tiburcio*



1141

Direct synthesis of phenanthrenyl triflates from 1-biphenylyl-2-diazo-2-aryl ketones and triflic anhydride

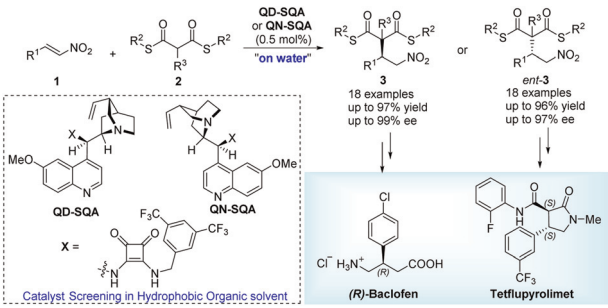
Yueqiang Liu, Sheng Zhang,* Xiujuan Feng, Xiaoqiang Yu, Yoshinori Yamamoto and Ming Bao*



1146

Asymmetric synthesis of (*R*)-baclofen and (3*S*,4*S*)-tetflupyrolimet *via* "on water" organocatalytic addition reactions: a tip on catalyst screening

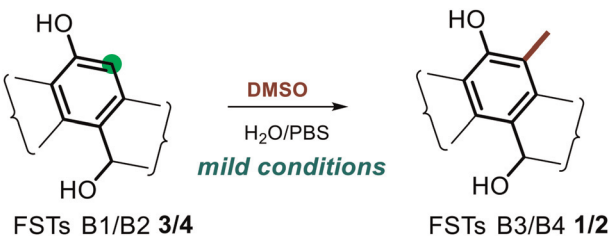
Bingfu Wang, Jian Liu, Tianxing Li, Hui Jin* and Lixin Zhang*



1152

Non-enzymatic synthesis of *C*-methylated fluostatins: discovery and reaction mechanism

Bidhan Chandra De, Chunfang Yang, Chunshuai Huang, Changsheng Zhang and Wenjun Zhang*



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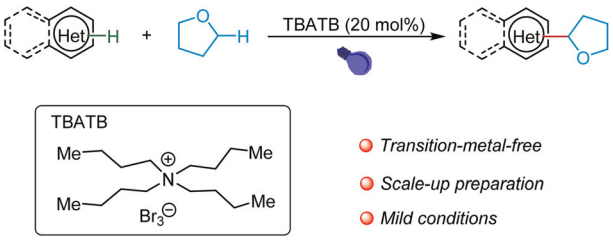
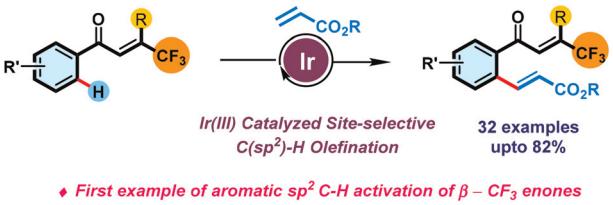
1157



A visible-light-induced bromine radical initiates direct C–H alkylation of heteroaromatics

Xiangxue Cao, Lanfeng Wei,* Jinbo Yang, Huanhuan Song* and Yu Wei*

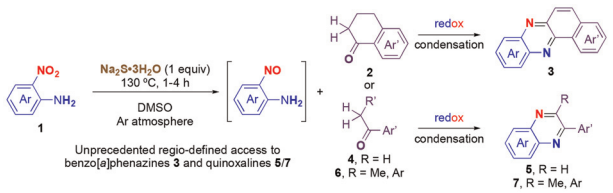
1162



Iridium(III)-catalyzed β-trifluoromethyl enone carbonyl-directed regioselective *ortho*-C(sp^2)–H olefination

Haritha Sindhe, Akshay Kamble, Malladi Mounika Reddy, Amardeep Singh and Satyasheel Sharma*

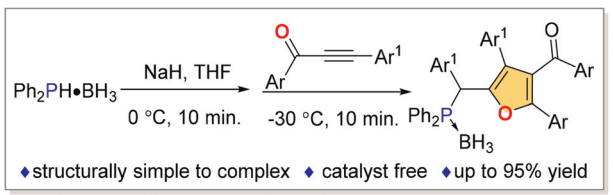
1167



Sodium sulfide-promoted regiodefined redox condensation of *o*-nitroanilines with aryl ketones to benzo[*a*]phenazines and quinoxalines

Duc Long Le, Le Anh Nguyen,* Ngoc Binh Vo, Thi Thu Tram Nguyen, Quoc Anh Ngo,* Pascal Retailleau and Thanh Binh Nguyen*

1172



Towards tetrasubstituted furans through rearrangement and cyclodimerization of acetylenic ketones

Zhenyun Dai, Chenyong Xu, Rongqiang Tian* and Zheng Duan*

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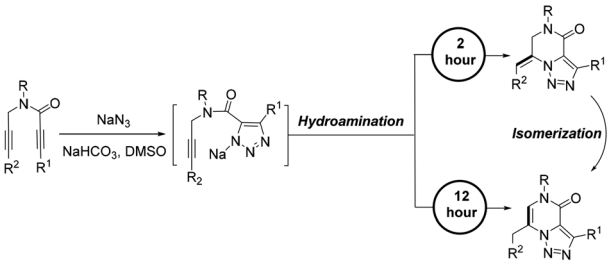
1176

A transition-metal-free azide–alkyne cycloaddition/hydroamination cascade reaction for the construction of triazole-fused piperazin-2-ones

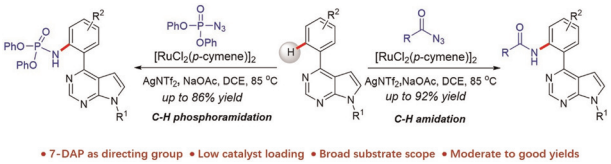
Kongxi Qiu, Kaifu Wu, Haowen Ma, Yunlin Ao, Wei Zhou* and Qian Cai*



1181

Ruthenium-catalysed direct C–H amidation of 4-aryl-pyrrolo[2,3-*d*]pyrimidines with acyl/phosphoryl azides

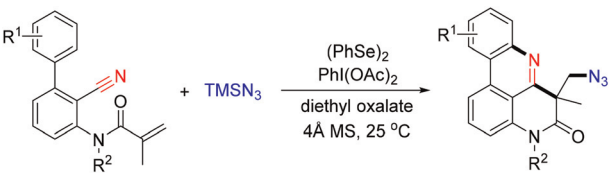
Chenhong Pan, Chun He, Jiangrong Wang, Junyang Tang and Xingxian Zhang*



1186

Oxidative cascade cyclization of *N*-arylacrylamides with $TMSN_3$

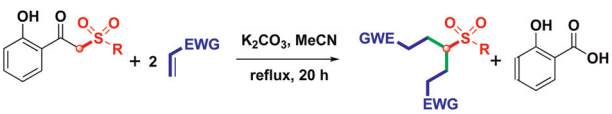
Bo Jiang, Tai-Gang Fan, Yu-Song Ran, Yun-Tao Shen, Cui Zhang, Wei Jiang and Ya-Min Li*



1194

Synthesis of 4-sulfonyl-1,7-diesters *via* K_2CO_3-mediated alkylative debenzoylation of α-sulfonyl *o*-hydroxyacetophenones with acrylates

Meng-Yang Chang* and Pin-Hsien Chen



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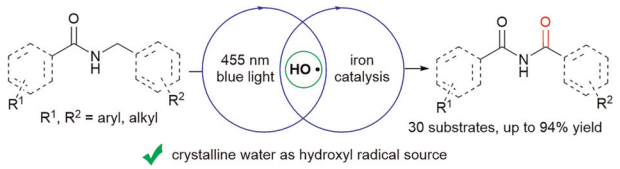
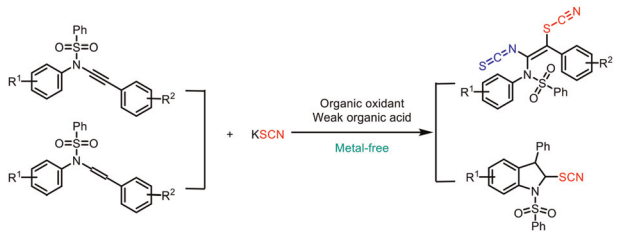


Selective α-oxidation of amides *via* visible-light-driven iron catalysis

Shu-Hong Liu, Zhi-Chao Dong, Zhong-Lin Zang, Cheng-He Zhou and Gui-Xin Cai*

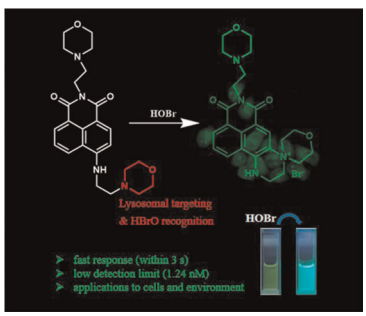
1213



Thiocyanate promoted difunctionalization and cyclization of unsaturated C–C bonds to construct 1-sulfur-2-nitrogen-functionalized alkenes and 2-thiocyanate indolines

Hong Qin, Feng Chen, Jinze Du, Xiaobing Yang, Yiping Huang, Kai Zhu, Changhai Yue, Zheng Fang* and Kai Guo

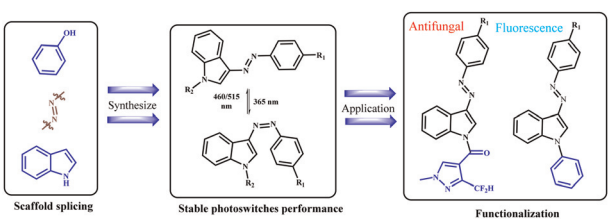
1219



Fast detection of hypobromous acid in cells and the water environment using a lysosome-targeted fluorescent probe

Quan-Rong Du, Min Peng, Yang Tian, Xue Yao, Jianfeng Zheng, Yu Peng* and Ya-Wen Wang*

1225



Phenolylazoindole scaffold for facilely synthesized and bis-functional photoswitches combining controllable fluorescence and antifungal properties using theoretical methods

Haoran Hu, Yu Liu, Junqi Li, Chong Zhang, Chao Gao, Chengguo Sun, Yang Du and Bingcheng Hu*

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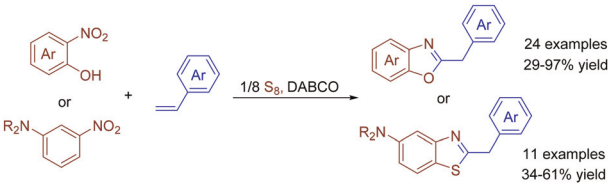
1234

Synthesis of 2-benzyl benzoxazoles and benzothiazoles *via* elemental sulfur promoted cyclization of styrenes with 2-nitrophenols and *N*,*N*-dialkyl-3-nitroanilines

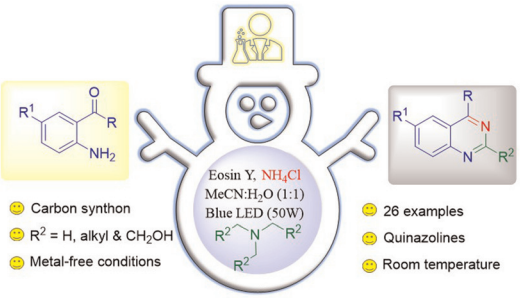
Truong K. Chau, Nguyen T. Ho, Tuan H. Ho, Anh T. Nguyen, Khoa D. Nguyen, Nam T. S. Phan, Ha V. Le* and Tung T. Nguyen*



1245

Visible-light photocatalyzed C–N bond activation of tertiary amines: a three-component approach to synthesize quinazolines

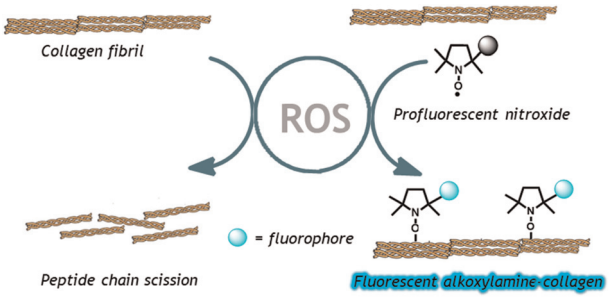
Ajithkumar Arumugam and Gopal Chandru Senadi*



1254

Dual functional profluorescent nitroxides for the detection of reactive oxygen species and inhibition of collagen degradation during reassembly

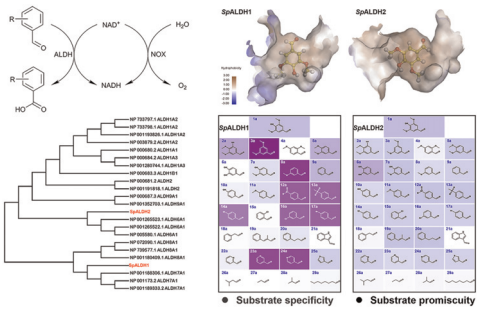
Nattawut Decha, Jutakan Thonglam, Jirut Meesane, Soraya Pornsuwan and Chittreeya Tansakul*



1269

A comparative study of two aldehyde dehydrogenases from *Sphingobium* sp.: the substrate spectrum and catalytic mechanism

Siyi Chen, Jieyu Zhou,* Xiangyuan Gu and Ye Ni*



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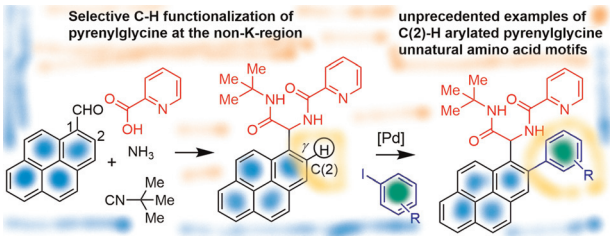
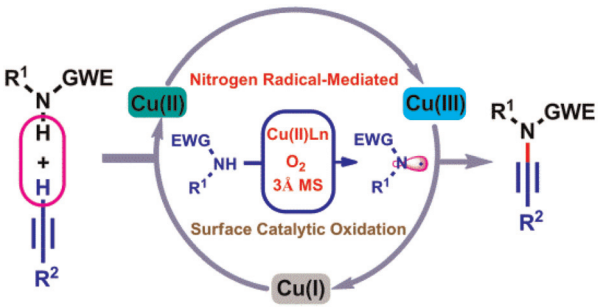


Picolinamide-assisted *ortho*-C–H functionalization of pyrenylglycine derivatives using aryl iodides

Arup Dalal, Subhankar Bodak and Srinivasarao Arulananda Babu*

1299



Copper-catalyzed room-temperature cross-dehydrogenative coupling of secondary amides with terminal alkynes: a chemoselective synthesis of ynamides

Shuang-Yan Zhuo, Jian-Liang Ye* and Xiao Zheng*

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