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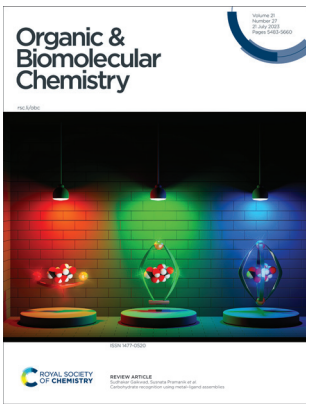
ISSN 1477-0520 CODEN OBCRAK 21(27) 5483–5660 (2023)



Cover
See Sudhakar Gaikwad, Susnata Pramanik *et al.*, pp. 5492–5505.

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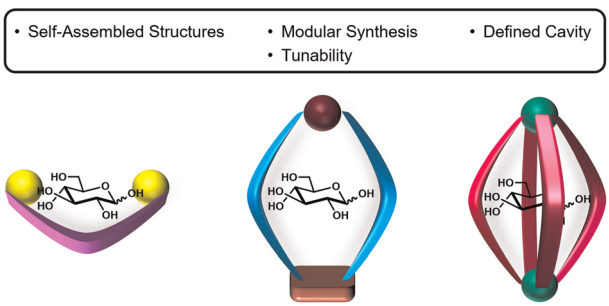
REVIEW

5492

Carbohydrate recognition using metal–ligand assemblies

Rafiq Ahamed, Jayashree Venkatesh, Rakshantha Srithar, Sudhakar Gaikwad* and Susnata Pramanik*

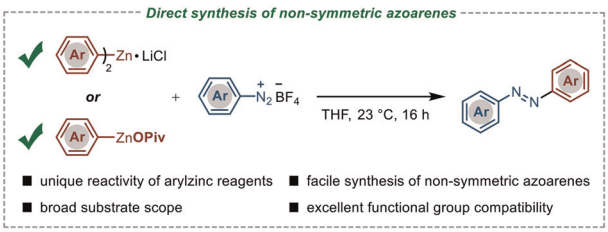


COMMUNICATIONS

5506

Organozincs for versatile synthesis of non-symmetric azoarenes

Zhili Duan, Shoucheng Dong and Jie Li*



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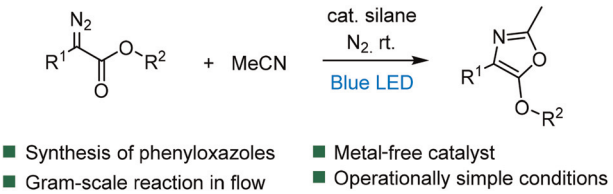
COMMUNICATIONS

5511

Visible light-induced synthesis of polysubstituted oxazoles from diazo compounds

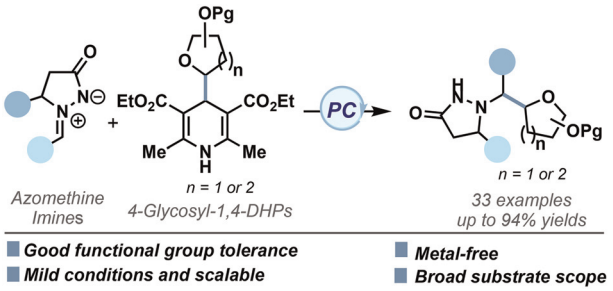
Jinrui Bai, Dan Qi, Zhuoheng Song, Bin Li, Lin Guo, Chao Yang* and Wujiong Xia*



5516

Synthesis of non-anomeric *C*-glycosyl pyrazolidinone derivatives *via* visible-light photoredox catalysis

Renan. O. Gonçalves, Pedro H. R. Oliveira, Iva S. de Jesus, Natalí P. Debia, Diogo S. Lüdtke* and Márcio W. Paixão*



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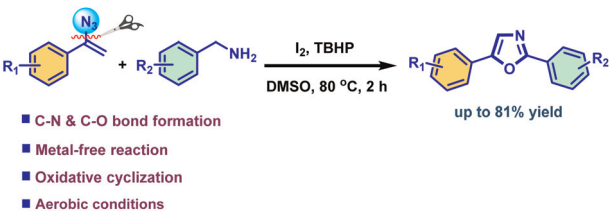
I_2/TBHP-mediated oxidative cascade cyclization of vinyl azide and benzylamine to construct 2,5-di-substituted oxazoles

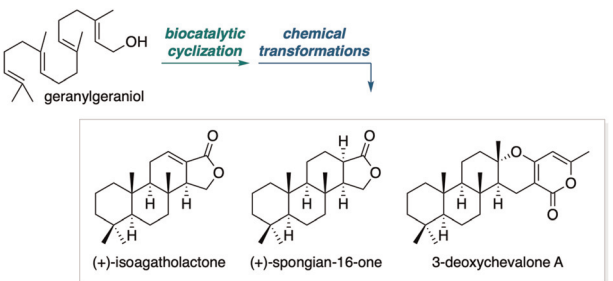
Mohanreddy Pothireddy, Rana Chatterjee, Vijaya Babu Penke and Rambabu Dandela*



5527

Chemoenzymatic synthesis of (+)-isoagatholactone, (+)-spongian-16-one, and 3-deoxychavalone A *via* biocatalytic polyene cyclization

Wen Xiao, Su-Jing Wang, Ming-Zhu Yu, Xue-Jie Zhang and Zheng Xiang*



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COMMUNICATIONS

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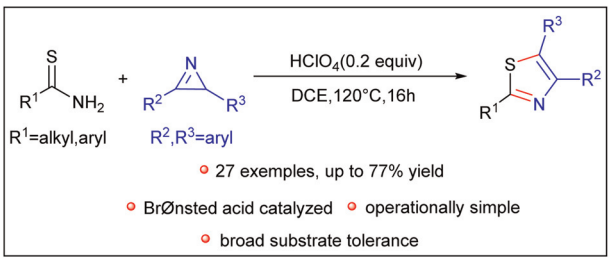

Brønsted acid-promoted ring-opening and annulation of thioamides and 2*H*-azirines to synthesize 2,4,5-trisubstituted thiazoles

Meng Wang, Jingyi Ma, Hesong Wang, Fangpeng Hu, Bo Sun, Taiyan Tan, Minglang Li and Guosheng Huang*

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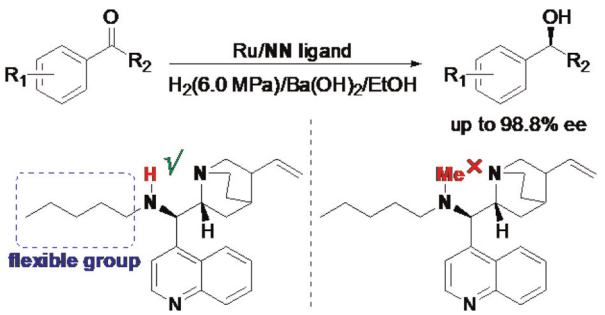

Cinchona-alkaloid-derived NN ligands for ruthenium catalyzed asymmetric hydrogenation of ketones

Hao Sun, Pinli Dai, Jie Tian, Qian Xu, Qian Chen, Linlin Li, Xin Meng, Lin Zhang* and Chun Li*

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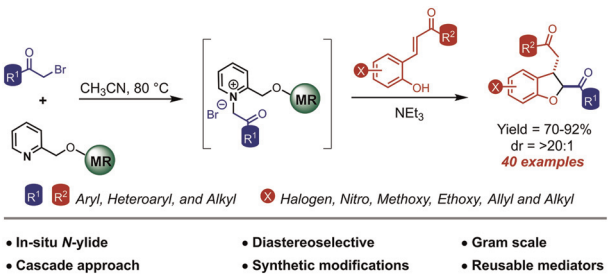
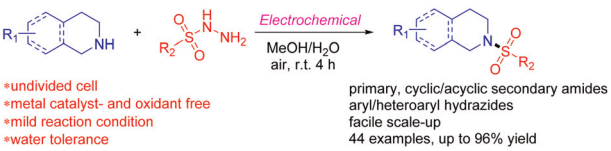


A reusable polymer anchored pyridine mediated formal [4 + 1] annulation reaction for the diastereoselective synthesis of 2,3-dihydrobenzofurans

Akanksha Kumari, Anshul Jain, Khyati Shukla, Ranjan Patra and Nirmal K. Rana*

5547



Catalyst-free electrochemical sulfonylation of amines with sulfonyl hydrazide in aqueous medium

Wei Chen,* Haojian Xu, Run Wu, Yang Chen, Pingbing Yu and Yanxi Jin

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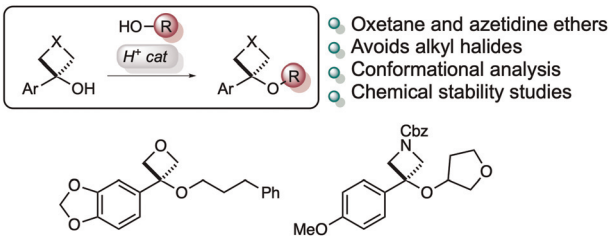
Synthesis of oxetane and azetidine ethers as ester isosteres by Brønsted acid catalysed alkylation of alcohols with 3-aryl-oxetanols and 3-aryl-azetidinols

Peerawat Saejong, Juan J. Rojas, Camille Denis, Andrew J. P. White, Anne Sophie Voisin-Chiret, Chulho Choi and James A. Bull*



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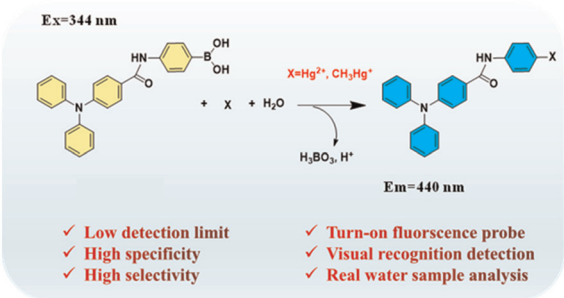
A triphenylamine-based fluorescent probe with phenylboronic acid for highly selective detection of Hg^{2+} and CH_3Hg^+ in groundwater

Lin Li, Hao Ouyang, Zhiqing Long, Qinpeng Zhang, Yunqi Jiang, Meng Cai, Shenglun Xiong, Sangshan Peng, Guangyu Xu* and Qing He*



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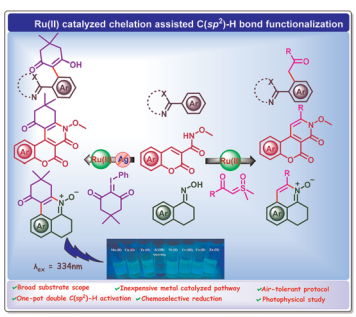
Ru(II) catalyzed chelation assisted $C(sp^2)$–H bond functionalization along with concomitant (4 + 2) annulation

Anindita Sarkar, Moumita Saha and Asish R. Das*



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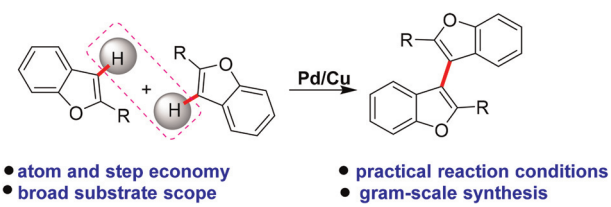
Pd-catalyzed homo-coupling of benzofurans: one-pot synthesis of diverse 3,3′-bisbenzofurans

Kishan Gugulothu, Ramanna Jatoth, Ramakrishna Gudipati, Nampally Rajitha, Rambabu Dandela and K. Shiva Kumar*



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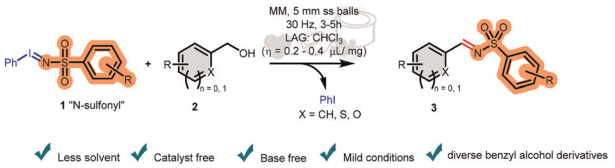
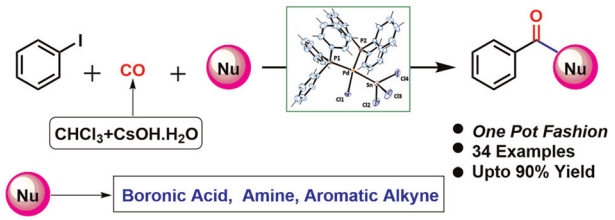


Metal-free synthesis of *N*-sulfonyl imines from benzyl alcohol derivatives and iminoiodinanes *via* mechanochemistry

Souvik Guha, Ritwik Bhattacharya, Jesni Jacob, Mahesh Ravva and Subhabrata Sen*

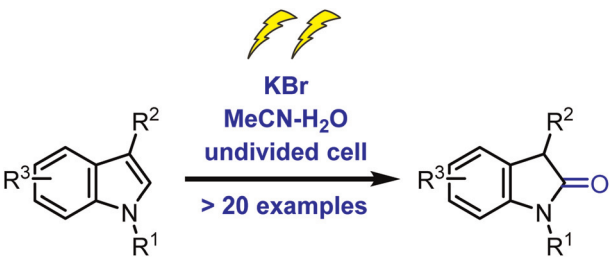
5601



A Pd–Sn heterobimetallic catalyst for carbonylative Suzuki, Sonogashira and aminocarbonylation reactions using chloroform as a CO surrogate

Anuradha Mohanty, Mukesh Kumar Nayak and Sujit Roy*

5609



Electrochemical oxidation of 3-substituted indoles

Juan J. Arteaga Giraldo, Ashley C. Lindsay, Rachel Chae-Young Seo, Paul A. Kilmartin and Jonathan Sperry*

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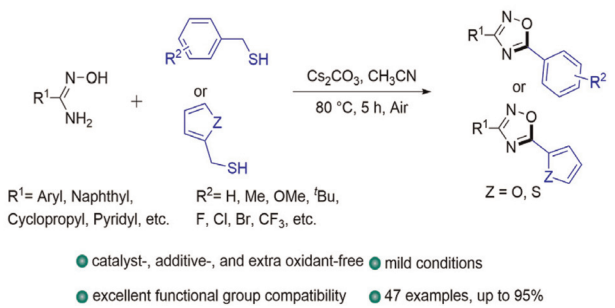

Thiol-promoted intermolecular cyclization to synthesize 1,2,4-oxadiazoles including tioxazafen under transition metal-free conditions

Congcong Yan, Min Zhang, Jiaxin Li, Jinli Zhang* and Yangjie Wu

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PAPERS

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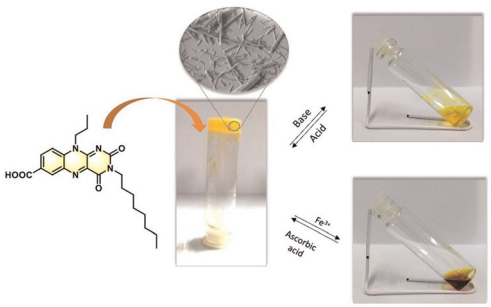
Flavin based supramolecular gel displaying multi-stimuli triggered sol–gel transition

M. S. S. Vinod Mouli and Ashutosh Kumar Mishra*



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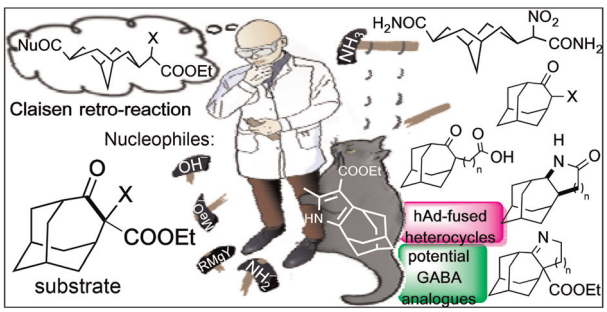
Towards a qualitative understanding of carbonyl reactivity of α-substituted ethyl 5-oxohomoadamantyl-4-carboxylates

Ilya M. Tkachenko,* Vadim A. Shiryaev and Yuri N. Klimochkin



5643

Alkyltin fluorides as alkylating reagent in aminoalkylation of maleimides

Jingjing Wang, Lin Zhao, Yafei Zhang, Peisen Zheng, Peng Zou* and Ge Wu*

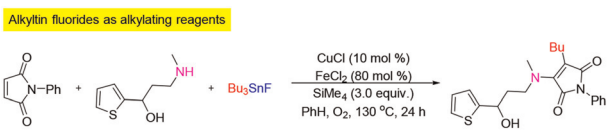


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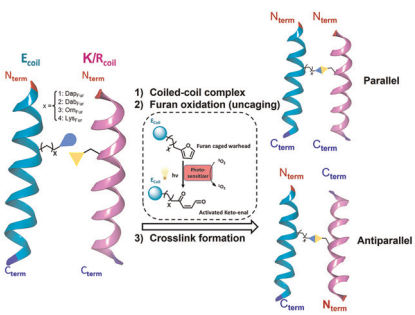
Photo-induced crosslinking uncovers an antiparallel strand orientation in heterodimeric (EIAALEK)$_3$/(KIAALKE)$_3$ and (EIAALEK)$_3$/(RIAALRE)$_3$ coiled-coil systems

D. Aerssens, L. Miret-Casals,* D. Gomez, D. Sousa-Neves, Y. Levy, M. De Vleesschouwer, A. Manicardi* and A. Madder*