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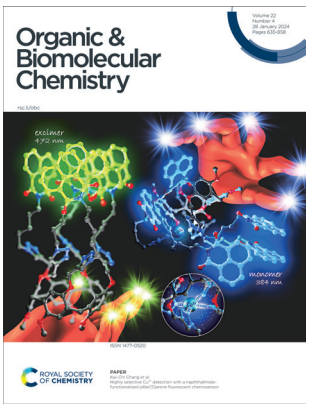
IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 22(4) 635–858 (2024)



Cover
See Kai-Chi Chang *et al.*, pp. 745–752.

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REVIEWS

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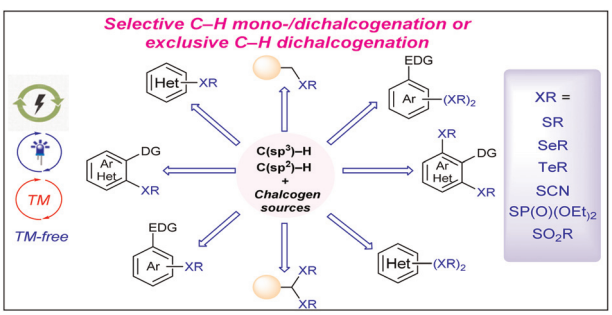
Recent advances in selective mono-/dichalcogenation and exclusive dichalcogenation of C(sp^2)–H and C(sp^3)–H bonds

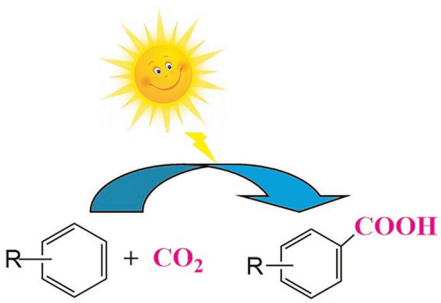
Chang-Sheng Wang, Yuan Xu, Shao-Peng Wang, Chun-Ling Zheng, Guowei Wang and Qiao Sun*



682

Visible-light-driven photocatalytic carboxylation to aromatic carboxylic acids with CO_2

Jihong Lan,* Xiaoyan Lu, Bo Ren, Fangfang Duo, Xinkai Niu and Jiangju Si*



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COMMUNICATIONS

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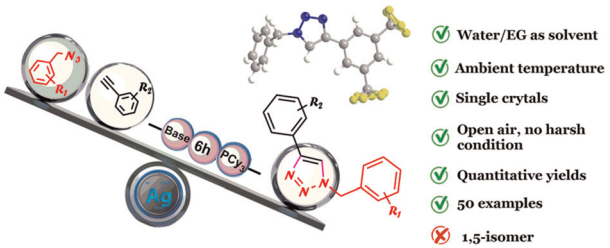
PCy_3-assisted Ag(I)-catalyzed click reaction for regioselective synthesis of 1,4-disubstituted 1,2,3-triazoles at room temperature

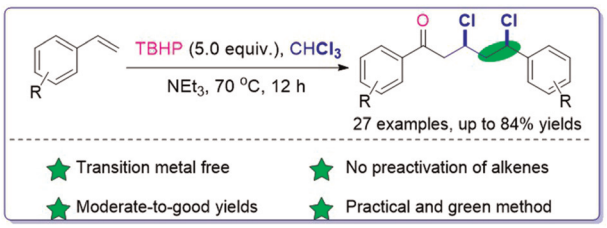
Roktopol Hazarika, Sanghamitra Dutta, Samprity Sarmah, Priyanuj Krishnann Hazarika, Kuldeep Singh, Arvind Kumar, Bipul Sarma and Diganta Sarma*



699

Metal-free synthesis of 1,3-dichloro-1,5-diarylpentan-5-ones *via* cascade oxidative radical addition of styrenes with $CHCl_3$

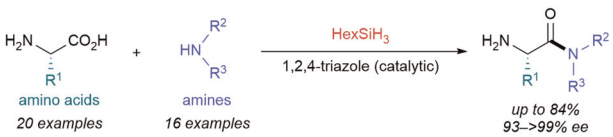
Min Liu, Bifu Liu,* Qian Wang, Kejun Feng, Yuanhua Li, Lixin Liu and Jiaen Tong



703

Hexylsilane-mediated direct amidation of amino acids with a catalytic amount of 1,2,4-triazole

Tomoya Nobuta,* Nozomi Tsuchiya, Yutaka Suto and Noriyuki Yamagiwa



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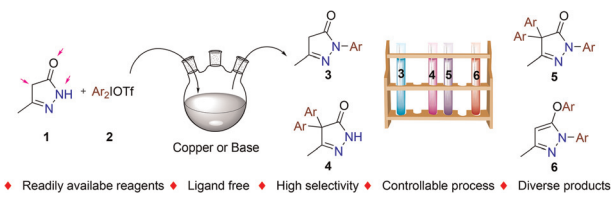
Sequential regioselective arylation of pyrazolones with diaryliodonium salts

Wenbo Liao, Hairui Du, Mingxiu Chen, Yan Xiong, Heye Zhou, Tao Qin* and Bin Liu*



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COMMUNICATIONS

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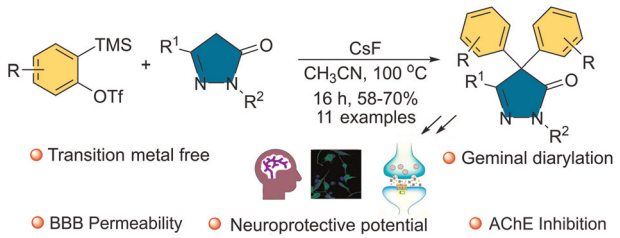

A protocol for directly accessing geminal C-4 diarylated pyrazol-5(4*H*)-ones *via* tandem C–H aryne insertion and their inceptive neurobiological evaluation

K. A. Sudarshana, Manas Jyoti Sarma, Mydhili Radhakrishnan, Sumana Chakravarty, Pabbaraja Srihari* and Goverdhan Mehta*

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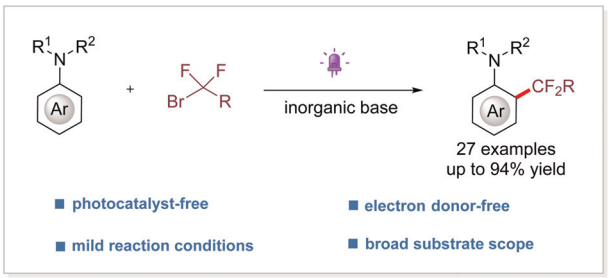

Photo-induced C(sp^2)–H difluoroalkylation of anilines

Xing-Li Zhu, Hua Wang, Chen-Kai Zhai and Wei He*

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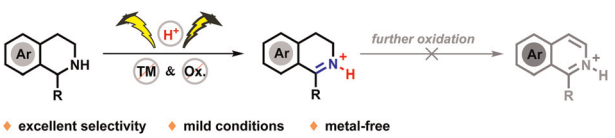

Selective electrochemical acceptorless dehydrogenation reactions of tetrahydroisoquinoline derivatives

Pan Li, Yue Tian, Lifang Tian* and Yahui Wang*

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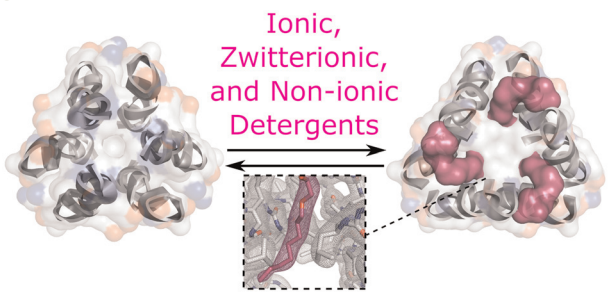

Oligourea helix bundle binds detergents with diverse polar head groups

Sung Hyun Yoo, Jérémie Buratto, Arup Roy, Morgane Pasco, Karolina Pulka-Ziach, Gavin W. Collie* and Gilles Guichard*

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COMMUNICATIONS

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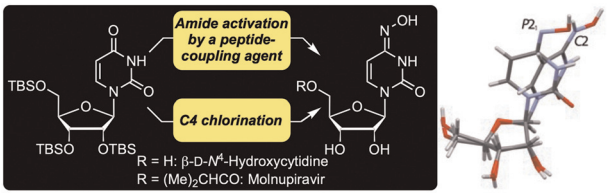
Two short approaches to the COVID-19 drug β-D-N^4-hydroxycytidine and its prodrug molnupiravir

Kevin E. Persaud, Rajesh R. Sahu, Michelle C. Neary, Anant R. Kapdi* and Mahesh K. Lakshman*



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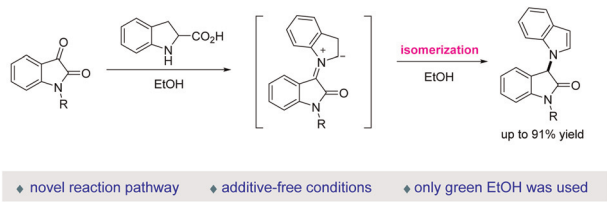
Direct synthesis of *N*-functionalized indoles through isomerization of azomethine ylides

Jun-Rong Song, Xiong-Jiang Li, Jun Shi, Qin Chi, Wei Wu* and Hai Ren*



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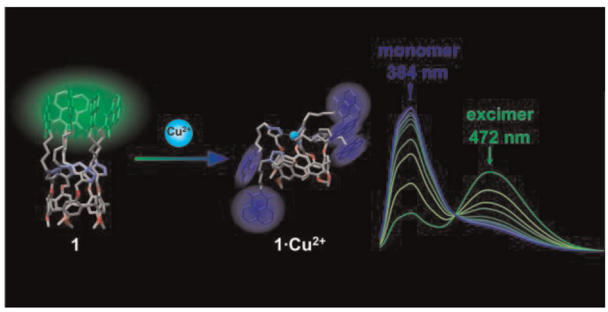
Highly selective Cu^{2+} detection with a naphthalimide-functionalised pillar[5]arene fluorescent chemosensor

Rong Chang, Chan-Yu Chen, Liya Gao, Yana Li, Zui-Harng Lee, Hongxia Zhao, Andrew C.-H. Sue and Kai-Chi Chang*



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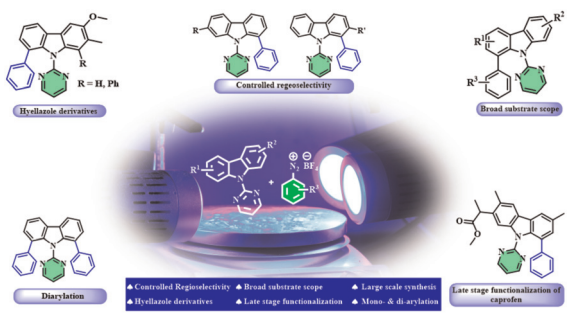
Substituent-controlled regioselective arylation of carbazoles using dual catalysis

M. Shahid, Perumal Muthuraja and Purushothaman Gopinath*



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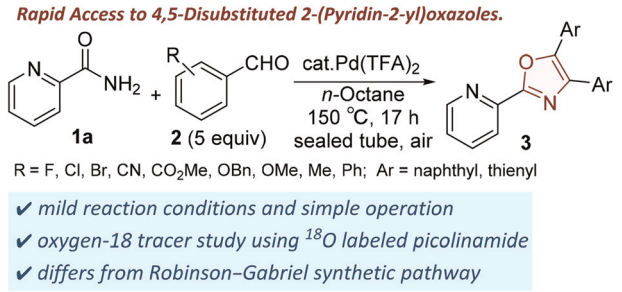

A sequential reaction of picolinamide with benzaldehydes promoted by $Pd(TFA)_2$: rapid access to 4,5-disubstituted 2-(pyridin-2-yl) oxazoles in *n*-octane

Taku Nakayama, Sayaka Fujiki, Tomokatsu Enda, Shoko Kikkawa, Hidemasa Hikawa* and Isao Azumaya*

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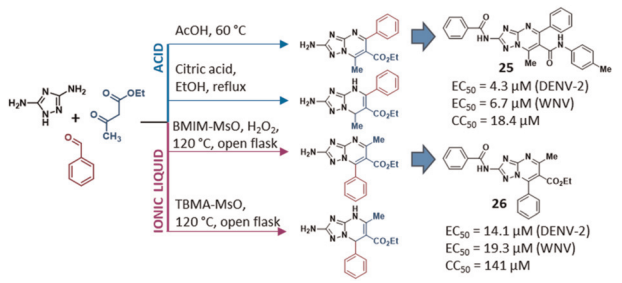

Switching the three-component Biginelli-like reaction conditions for the regioselective synthesis of new 2-amino[1,2,4]triazolo[1,5-*a*]pyrimidines

Martina Pacetti, Maria Chiara Pismataro, Tommaso Felicetti,* Federica Giammarino, Anna Bonomini, Matteo Tiecco, Chiara Bertagnin, Maria Letizia Barreca, Raimondo Germani, Violetta Cecchetti, Ilaria Vicenti, Oriana Tabarrini, Maurizio Zazzi, Arianna Loregian and Serena Massari

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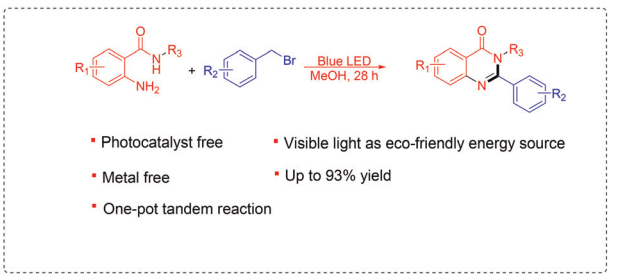

Visible light-mediated synthesis of quinazolinones from benzyl bromides and 2-aminobenzamides without using any photocatalyst or additive

Sheng Huang, Liang Jin, Yufeng Liu, Guoping Yang,* Aixin Wang, Zhanggao Le, Guofang Jiang* and Zongbo Xie*

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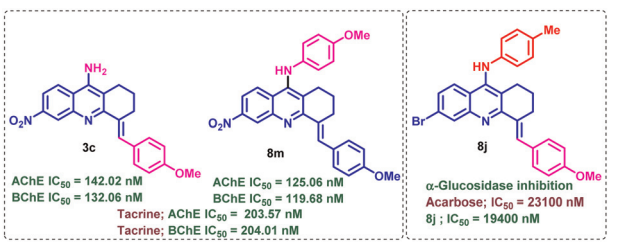

Metal-free synthesis of functionalized tacrine derivatives and their evaluation for acetyl/butyrylcholinesterase and α-glucosidase inhibition

Thangellapally Shirisha, Subir Majhi, Kalivarathan Divakar* and Dhurke Kashinath*

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PAPERS

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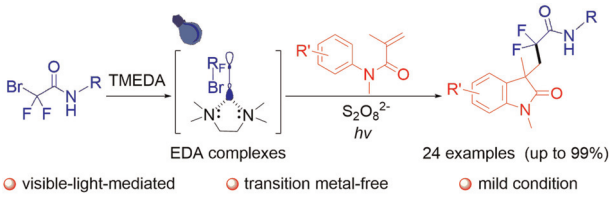
Visible-light-promoted difluoroamidated oxindole synthesis *via* electron donor–acceptor complexes

Wei-Feng Wang, Tao Liu, Yan-Liang Cheng and Qin-Hua Song*



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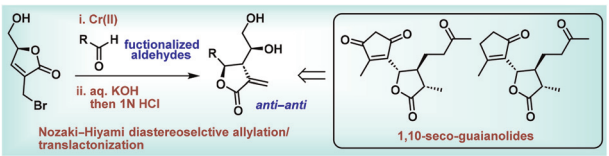
Diastereoselective allylation-based asymmetric total synthesis of 1,10-*seco*-guaianolides

Rodney A. Fernandes* and Ravikant S. Ranjan



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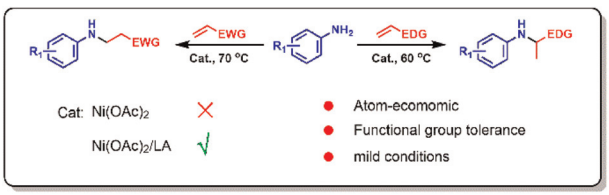
Nickel(II)/Lewis acid catalysed olefin hydroamination and hydroarylation under mild conditions

Kaiwen Li, Hongwu Jiang, Shuangfeng Dong, Shuang-Long Li, Zhuqi Chen and Guochuan Yin*



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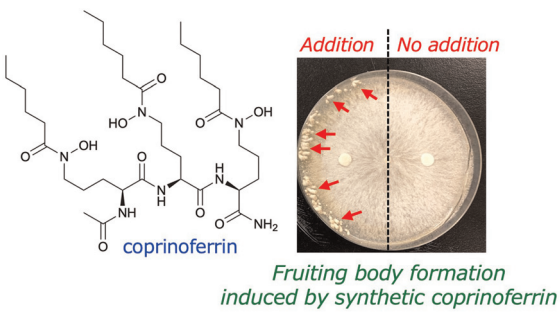
Synthesis and biological evaluation of coprinoferrin, an acylated tripeptide hydroxamate siderophore

Ichiro Hayakawa,* Tomoki Isogai, Jun Takanishi, Shihori Asai, Chika Ando, Tomohiro Tsutsumi, Kenji Watanabe,* Akira Sakakura* and Yuta Tsunematsu*



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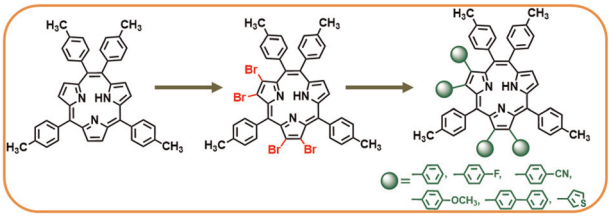

Synthesis of unsymmetrical 2,3,7,8-tetrabromo *meso*-5,10,11,16-tetraaryl- triphyrin(2.1.1) and its use in the synthesis of sterically crowded 2,3,5,7,8,10,11,16-octaarylated triphyrin(2.1.1)s

Akrti Sharma, Gurpreet Kaur and Mangalampalli Ravikanth*

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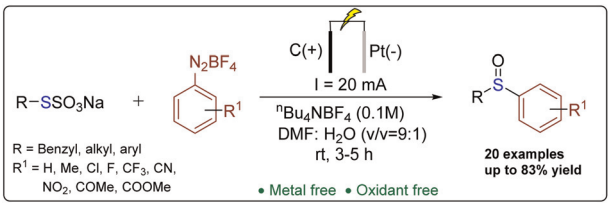

Electro-oxidative coupling of Bunte salts with aryldiazonium tetrafluoroborates: a benign access to unsymmetrical sulfoxides

Saurabh Kumar, Shiv Chand and Krishna Nand Singh*

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