

Organic & Biomolecular Chemistry

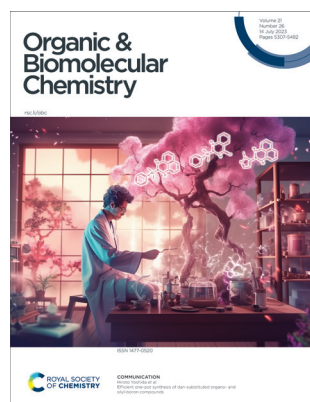
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Hiroto Yoshida *et al.*,
pp. 5347–5350.

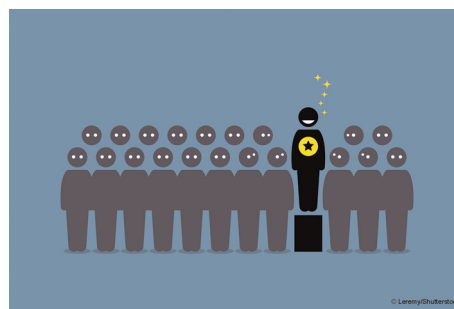
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EDITORIAL

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Outstanding Reviewers for *Organic & Biomolecular Chemistry* in 2022



REVIEW

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Synthesis, reactions and application of chalcones: a systematic review

Mona A. Shalaby, Sameh A. Rizk and Asmaa M. Fahim*



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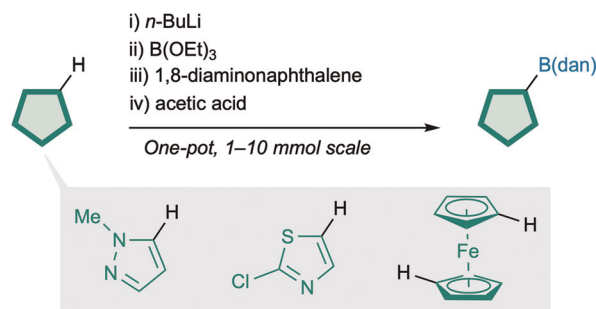


COMMUNICATIONS

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Efficient one-pot synthesis of dan-substituted organo- and silyl-boron compounds

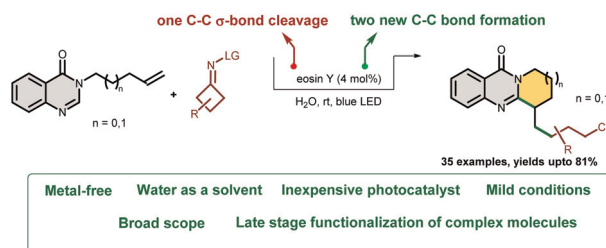
Kazuki Tomota, Yuki Izumi, Kazuki Nakanishi, Masaaki Nakamoto and Hiroto Yoshida*



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Dicarbofunctionalization of unactivated alkenes via organo-photoredox catalysis in water: access to cyanoalkylated fused quinazolinones

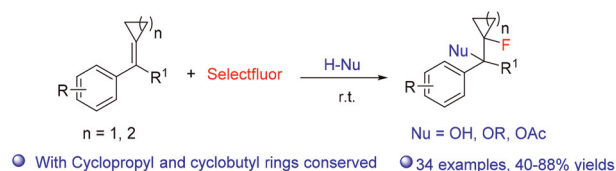
Abuthayir Mohamathu Ghouse and Srirama Murthy Akondi*



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Fluorination of alkylidenecyclopropanes and alkylidenecyclobutanes: divergent synthesis of fluorinated cyclopropanes and cyclobutanes

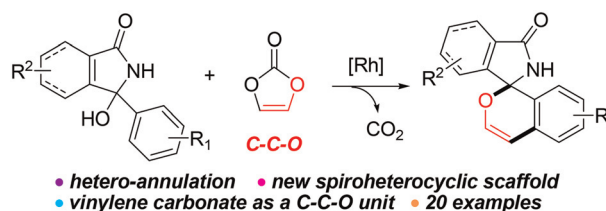
Jin-Bo Wu, Shuang Li, Shuai Han, Yue Wang, Wei Zhang, Zhen Wang* and Yao-Fu Zeng*



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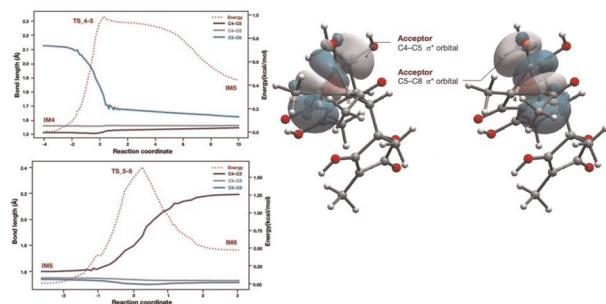
Rh(III)-catalyzed [3 + 3] spirocyclization of 3-aryl-3-hydroxyisoindolinones with vinylene carbonate as a three-atom unit

Hai-Shan Jin* and Cai-Cai Liang



COMMUNICATIONS

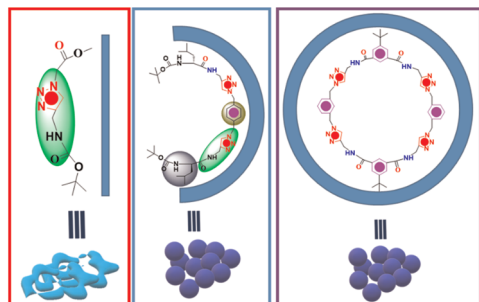
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Theoretical study of the rearrangement reaction in bisorbicillinoid biosynthesis: insights into the molecular mechanisms involved

Moe Nakano and Hajime Sato*

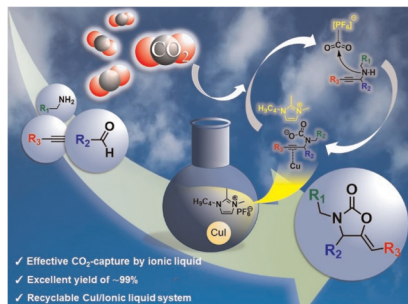
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Expanded triazolophanes: a topological analysis of vesicular assembly

Appa Rao Sapala, Govind P. Maurya, Hanuman Singh, Neha Mehta, Tarak Karmakar and V. Haridas*

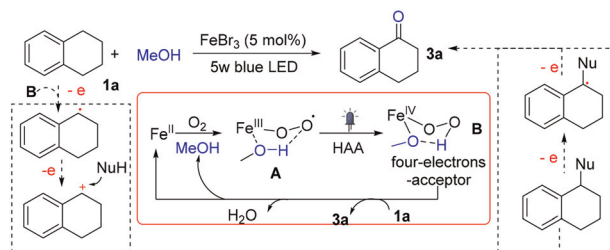
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Highly efficient fixation of carbon dioxide into 2-oxazolidinones under mild conditions by using a reusable ionic liquid/CuI catalyst system

Mayumi Egashira and Hsiu-Hui Chen*

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Solvent-promoted photochemical carbonylation of benzylic C-H bonds under iron catalysis

Rui Qi, Tianwen Bai, Shuwang Tang, Ming Hou, Zhide Zhang, Wenlin Xie,* Yangling Deng, Hongwei Zhou* and Guanyinsheng Qiu*

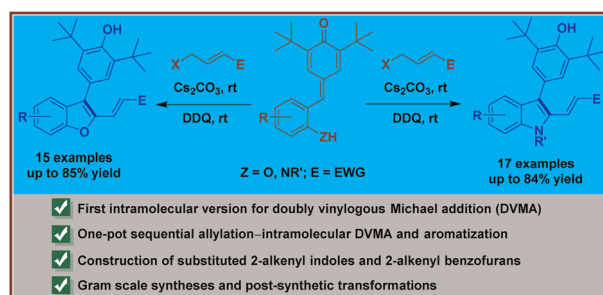


PAPERS

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Design and development of intramolecular doubly vinylogous Michael addition to access 3-aryl substituted 2-alkenyl-benzofurans and -indoles

Manyam Subbi Reddy, Jagadeesh Babu Nanubolu and Suriseti Suresh*

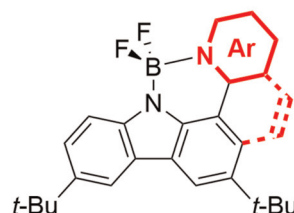


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A series of boron difluoride complexes of azinylcarbazoles: synthesis and structure–property relationships

Koji Yamamoto,* Shun Matsui, Shin-ichiro Kato and Yosuke Nakamura*

Structure–property relationships of BF_2 complexes of *azinyl*carbazoles

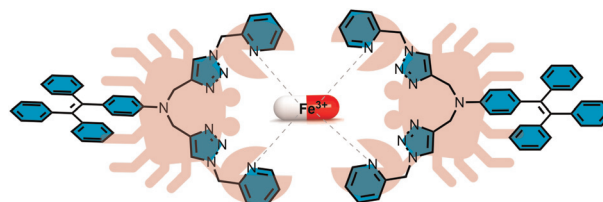


UV–vis absorption
Fluorescence
Phosphorescence
Solid-state emission
Redox activity

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An AIE active fluorescence sensor for measuring Fe^{3+} in aqueous media and an iron deficiency anemia drug

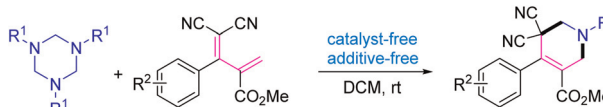
Oguzhan Dalkilic, Ebru Bozkurt, Ferruh Lafzi and Haydar Kilic*



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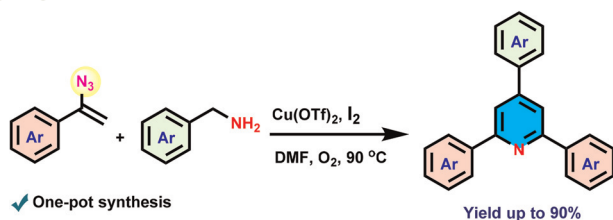
Catalyst-free inverse-electron-demand aza-Diels–Alder reaction of 4,4-dicyano-2-methylenebut-3-enoates and 1,3,5-triazinanes: access to polysubstituted tetrahydropyridines

Dezhi Yang,* Meng Zhu, Taimin Wang, Yixuan He, Lang Xie, Jiayong Zhang* and Bin Cheng*



PAPERS

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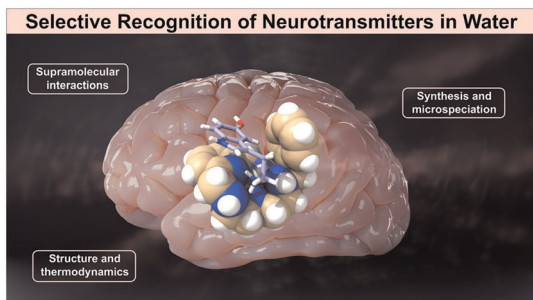


- ✓ One-pot synthesis
- ✓ Cascade cyclization
- ✓ No external N-source
- ✓ High product yields

Copper catalysed oxidative cascade deamination/cyclization of vinyl azide and benzylamine for the synthesis of 2,4,6-triarylpyridines

Rana Chatterjee,* Swadhapiya Bhukta, Kishore Kumar Angajala and Rambabu Dandela*

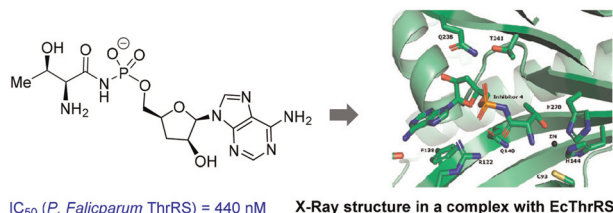
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Selective recognition of neurotransmitters in aqueous solution by hydroxyphenyl aza-scorpion ligands

Begoña Verdejo,* Mario Inclán, Salvador Blasco, Rafael Ballesteros-Garrido, Matteo Savastano, Antonio Bianchi* and Enrique García-España*

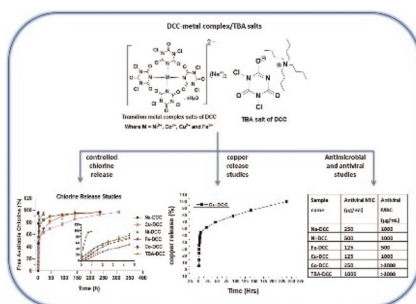
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Synthesis and evaluation of an agrocin 84 toxic moiety (TM84) analogue as a malarial threonyl tRNA synthetase inhibitor

Jhon Alexander Rodriguez Buitrago, Gundars Leitis, Iveta Kaņepe-Lapsa, Anastasija Rudnickiha, Emilio Parisini* and Aigars Jirgensons*

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Antimicrobial dichloroisocyanurate-salts for controlled release of chlorine

Pulikanti Guruprasad Reddy, Meital Reches, Tan Hu and Abraham J. Domb*

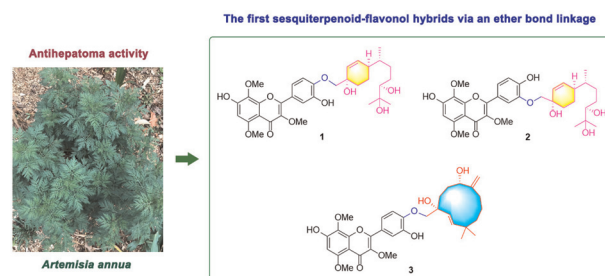


PAPERS

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Artemannuols A–C, novel sesquiterpenoid–flavonol hybrids with antihepatoma activity from *Artemisia annua*

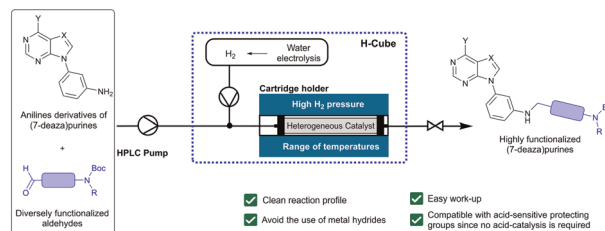
Xiao-Feng He, Meng-Fei Wang, Tian-Ze Li, Yun-Bao Ma and Ji-Jun Chen*



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Direct reductive amination of functionalized aldehydes with aniline derivatives of purines and 7-deazapurines

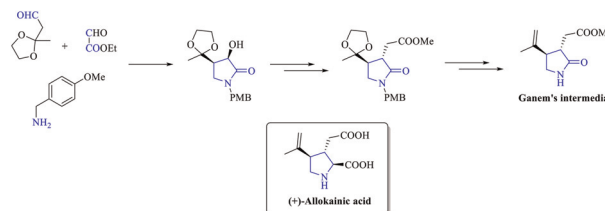
José-María Orduña, Natalia del Río and María-Jesús Pérez-Pérez*



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An approach towards (+)-allokainic acid via diphenylprolinol-catalyzed direct cross-aldol reaction

Shashank N. Mhaldar and Santosh G. Tilve*



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Fe-mediated oxidative cascade [1 + 2 + 3]-cyclization/esterification reaction: synthesis of 4-alkylated 1,4-dihydropyridines

Zhuoyuan Liu, Yulin Sun, Mingshuai Zhang, Longkun Chen, Xue-Bing Chen,* Xiang Li* and Fuchao Yu*

