

# Organic & Biomolecular Chemistry

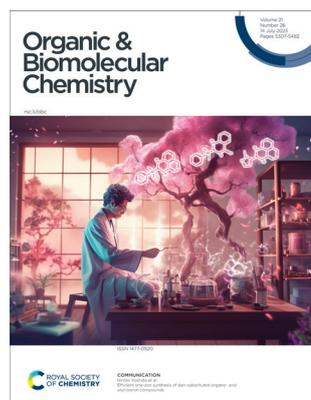
An international journal of synthetic, physical and biomolecular organic chemistry

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### Cover

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

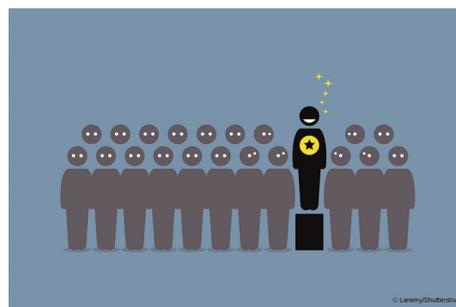
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## EDITORIAL

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## REVIEW

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



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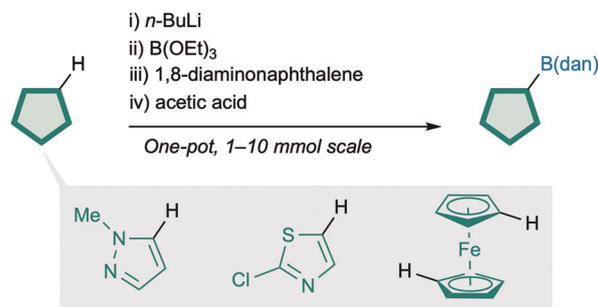


## COMMUNICATIONS

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

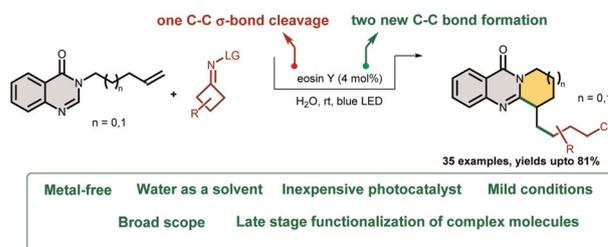
Kazuki Tomota, Yuki Izumi, Kazuki Nakanishi, Masaaki Nakamoto and Hiroto Yoshida\*



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

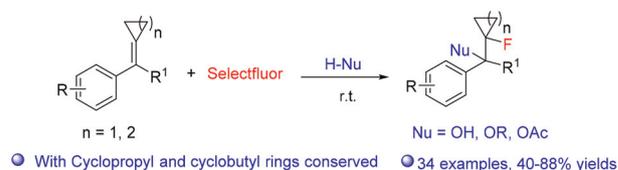
Abuthayir Mohamathu Ghouse and Srirama Murthy Akondi\*



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

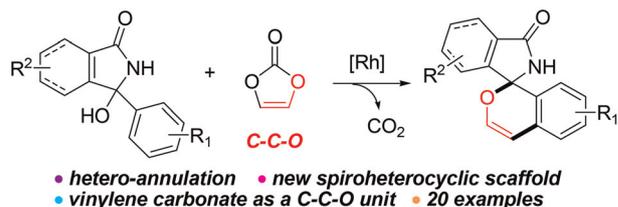
Jin-Bo Wu, Shuang Li, Shuai Han, Yue Wang, Wei Zhang, Zhen Wang\* and Yao-Fu Zeng\*



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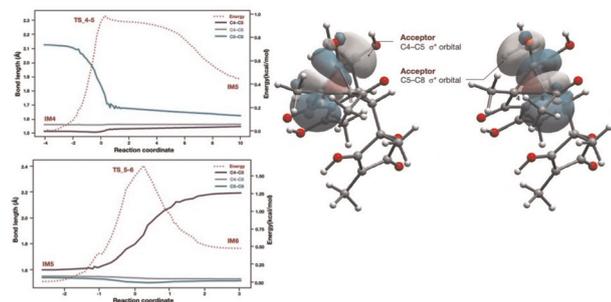
**Rh(III)-catalyzed [3 + 3] spirocyclization of 3-aryl-3-hydroxyisoindolinones with vinylene carbonate as a three-atom unit**

Hai-Shan Jin\* and Cai-Cai Liang



## COMMUNICATIONS

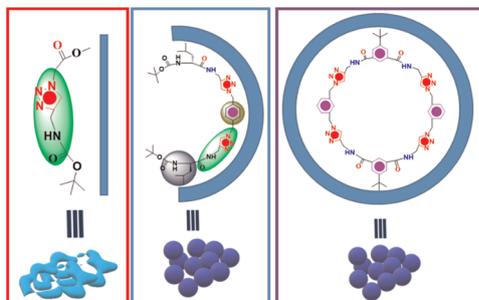
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### Theoretical study of the rearrangement reaction in bisorbicillinoid biosynthesis: insights into the molecular mechanisms involved

Moe Nakano and Hajime Sato\*

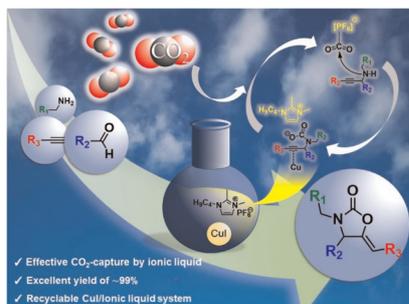
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### Expanded triazolophanes: a topological analysis of vesicular assembly

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

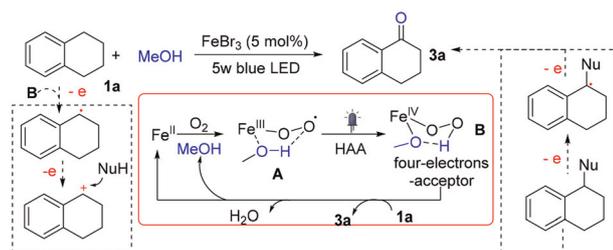
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### Highly efficient fixation of carbon dioxide into 2-oxazolidinones under mild conditions by using a reusable ionic liquid/CuI catalyst system

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\*

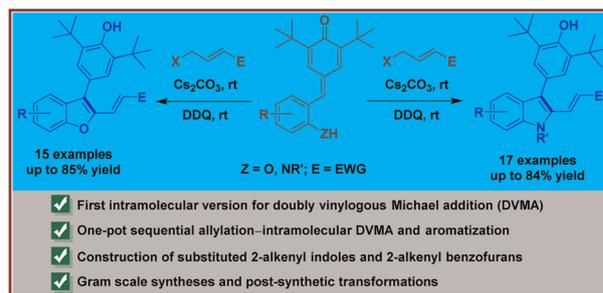


## PAPERS

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

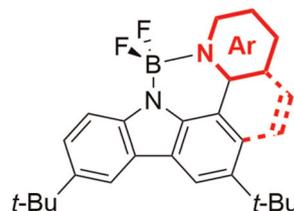
Manyam Subbi Reddy, Jagadeesh Babu Nanubolu and Suriseti Suresh\*



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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\*

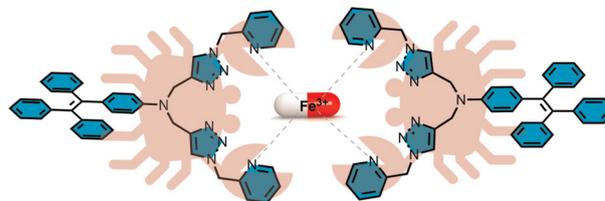
*Structure–property relationships of BF<sub>2</sub> complexes of azinylcarbazoles*

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

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**An AIE active fluorescence sensor for measuring Fe<sup>3+</sup> in aqueous media and an iron deficiency anemia drug**

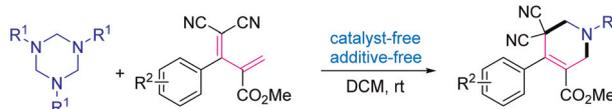
Oguzhan Dalkilic, Ebru Bozkurt, Ferruh Lafzi and Haydar Kilic\*



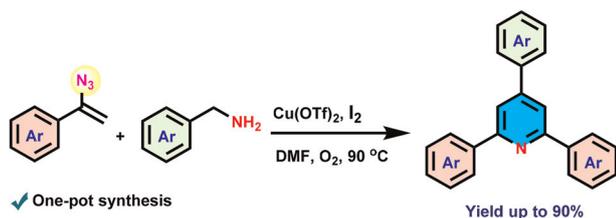
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**Catalyst-free inverse-electron-demand aza-Diels–Alder reaction of 4,4-dicyano-2-methylenebut-3-enoates and 1,3,5-triazinanes: access to polysubstituted tetrahydropyridines**

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



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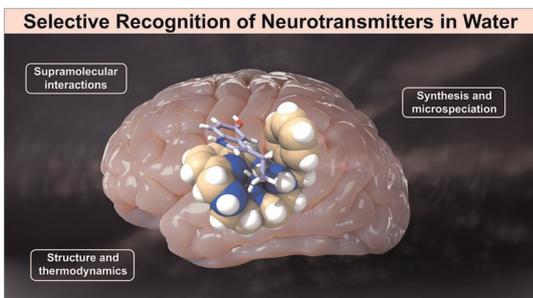


- ✓ One-pot synthesis
- ✓ Cascade cyclization
- ✓ No external N-source
- ✓ High product yields

### 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\*

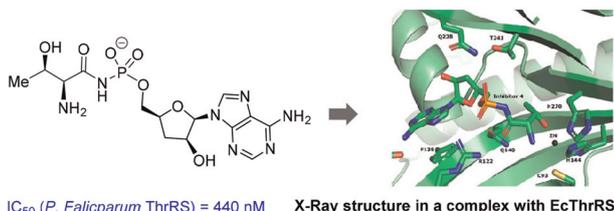
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### Selective recognition of neurotransmitters in aqueous solution by hydroxyphenyl aza-scorpionid ligands

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

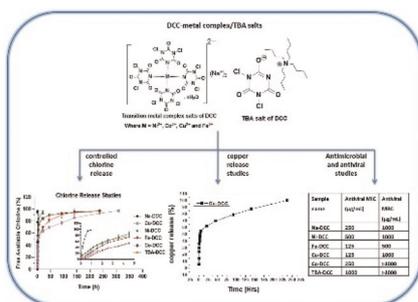
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### Synthesis and evaluation of an agrocin 84 toxic moiety (TM84) analogue as a malarial threonyl tRNA synthetase inhibitor

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

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### Antimicrobial dichloroisocyanurate-salts for controlled release of chlorine

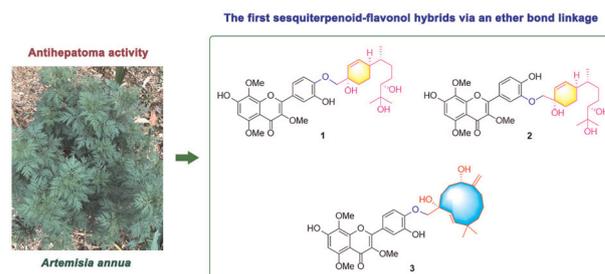
Pulikanti Guruprasad Reddy, Meital Reches, Tan Hu and Abraham J. Domb\*



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

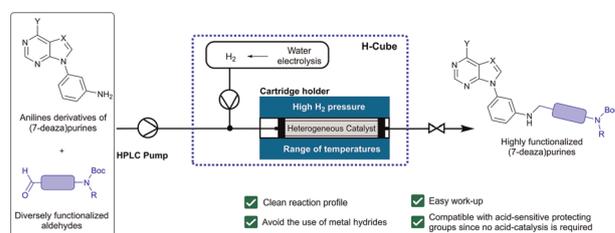
Xiao-Feng He, Meng-Fei Wang, Tian-Ze Li, Yun-Bao Ma and Ji-Jun Chen\*



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

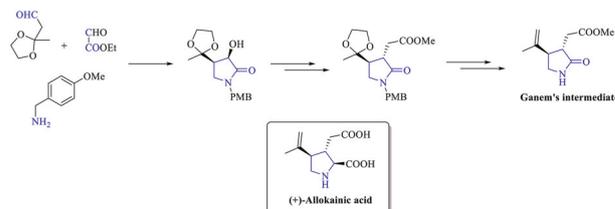
José-María Orduña, Natalia del Río and María-Jesús Pérez-Pérez\*



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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\*

