

# Organic & Biomolecular Chemistry

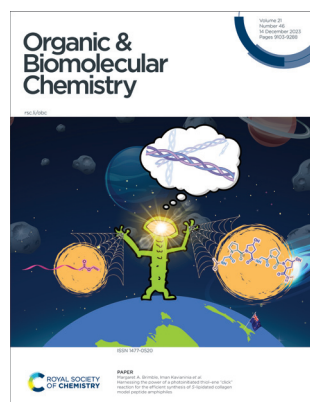
An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

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See Margaret A. Brimble,  
Iman Kavianinia *et al.*,  
pp. 9150–9158.

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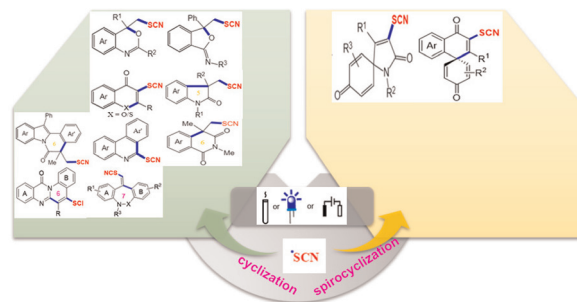
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## REVIEW

9112

### Recent advances in radical thiocyanation cyclization or spirocyclization reactions

Qinqin Yan, Shiliu Chen, Jie Fan and Zejiang Li\*

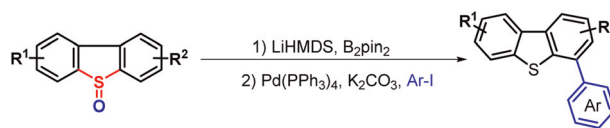


## COMMUNICATIONS

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### One-pot cascade synthesis of dibenzothiophene- based heterobiaryls from dibenzothiophene-5-oxide

Xiaofang Hu, Zeen Qiao, Li Zhang, Jinzhong Zhao,  
Ya-Zhou Liu, Jiangang Zhang\* and Xiaofeng Ma\*



- One-pot, two steps
- High chemoselectivity
- Compatible with an array of functional groups including NO<sub>2</sub>, aldehyde, halides
- Sulfoxide directed metalation-boration
- Applied to synthesis of luminescent material

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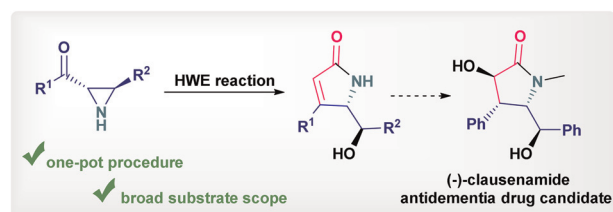


## COMMUNICATIONS

9128

One-pot synthesis of  $\gamma$ -lactams from ketoaziridines

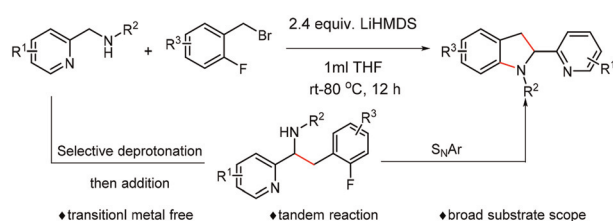
Lorena S. R. Martelli, Otavio A. M. da Silva,  
Julio Zukerman-Schpector and Arlene G. Corrêa\*



9133

## Base-promoted tandem synthesis of 2-azaaryl indoline

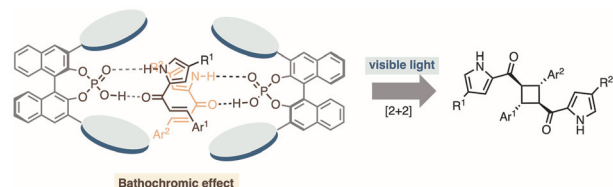
Shuguang Chen,\* Jiahong Tan, Hao Wu,  
Quansheng Zhao and Yongjia Shang\*



9138

## Visible-light-driven enantioselective intermolecular [2 + 2] photocyclization utilizing bathochromic excitation mediated by a chiral phosphoric acid

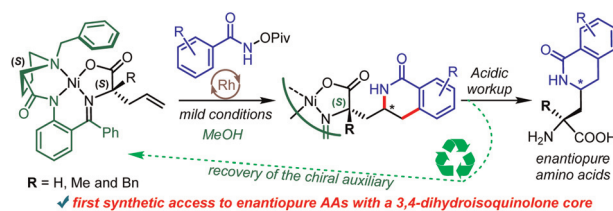
Tatsuhiko Uchikura, Kazuki Takahashi, Tatsushi Oishi  
and Takahiko Akiyama\*

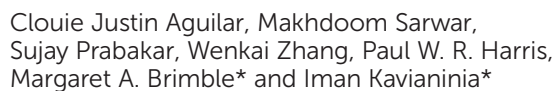


9143

A synthetic route to artificial chiral  $\alpha$ -amino acids featuring a 3,4-dihydroisoquinolone core through a Rh(III)-catalyzed functionalization of allyl groups in chiral Ni(II) complexes

Mikhail A. Arsenov, Nadezhda V. Stoletova,  
Alexander F. Smol'yakov, Tat'yana F. Savel'yeva,  
Victor I. Maleev, Dmitry A. Loginov\* and  
Vladimir A. Larionov\*





Xinwei He,\* Demao Wang, Yanan Liu, Mengdi Wu,  
Yangzilin Kong, Qiang Tang, Yiping Wang, Chenli Fan  
and Yongjia Shang\*

Antonie J. van der Zouwen, Aike Jeucken, Elske van der Pol, Gerben Boerema, Dirk J. Slotboom and Martin D. Witte\*

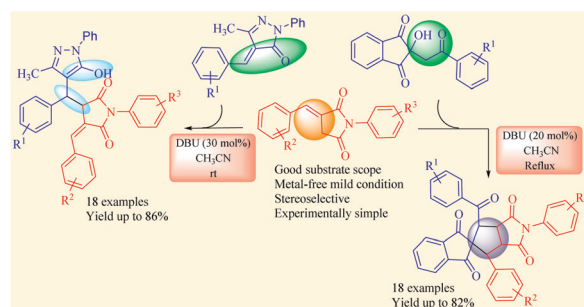
Karolina Kaminska,\* Dominika Iwan, Jakub Trojnar,  
Marek Daszkiewicz, Joanna E. Rode, Jacek Wojaczyński  
and Elżbieta Wojaczyńska\*

## PAPERS

9192

### Spirocyclization and Michael addition of 3-benzylidene succinimides: route to spirocyclopentapyrrolidine-tetraones and benzylidene *N*-arylpyrrolidine-diones

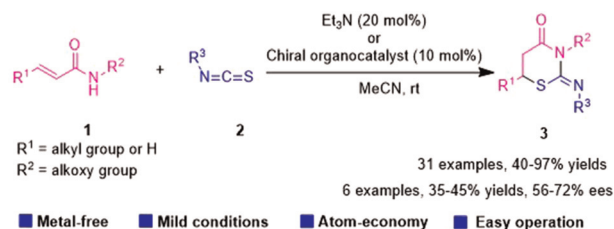
Pooja Dahiya, Anoop Yadav and Rama Krishna Peddinti\*



9200

### Lewis base-catalyzed cascade [4 + 2]-annulation reaction of *N*-alkoxy acrylamides and acyl isothiocyanates: facile access to 2-imino-1,3-thiazinone derivatives

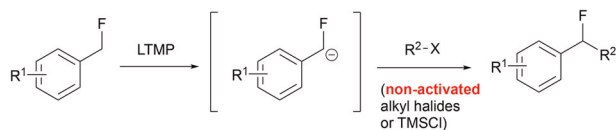
Zhaoxue Wang, Ge Tian, Yuying Shi, Wanxing Liu, Xiangdong Xu, Xiaojing Li, Lingang Wu\* and Lei Xie\*



9210

### Alkylation and silylation of $\alpha$ -fluorobenzyl anion intermediates

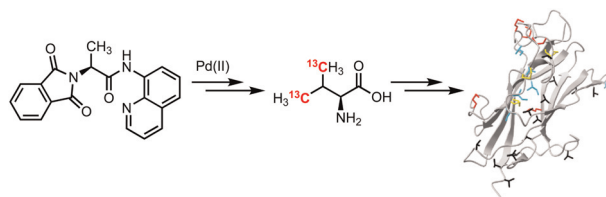
Taku Kitahara, Yuta Tagami, Yuto Haga, Santos Fustero, Tsuyuka Sugiishi and Hideki Amii\*



9216

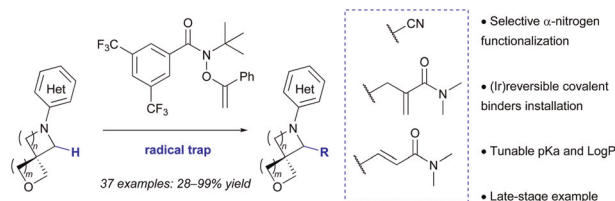
### Synthesis of $^{13}\text{C}$ -methyl-labeled amino acids and their incorporation into proteins in mammalian cells

Matteo Borgini, Łukasz Wieteska, Cynthia S. Hinck, Troy Krzysiak, Andrew P. Hinck\* and Peter Wipf\*



## PAPERS

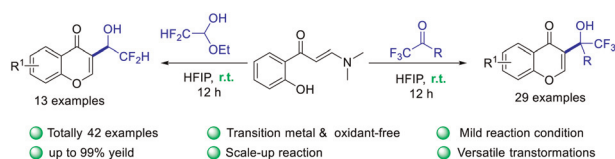
9230



### Introducing covalent warheads on spirocyclic $sp^2$ – $sp^3$ fragments by innate C–H functionalization

Matteo Martinelli, Christophe Giorgiutti, Thomas Fessard and Quentin Lefebvre\*

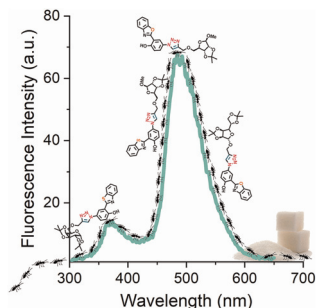
9236



### Metal-free synthesis of difluoro/trifluoromethyl carbinol-containing chromones via tandem cyclization of *o*-hydroxyaryl enaminones

Long-Hui Wu, Xia Liu, Zhao-Wen Liu,\* Zhi-Xi Chen, Xin-Lei Fu and Kai Yang\*

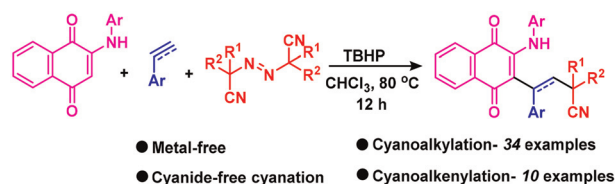
9242



### Photoactive glycoconjugates with a very large Stokes shift: synthesis, photophysics, and copper(II) and BSA sensing

Cláudia Brito da Silva, Luana Silva, Natalí Pires Debia, Otávio Augusto Chaves, Diogo Seibert Lüdtkke\* and Fabiano Severo Rodembusch\*

9255



### *tert*-Butylhydroperoxide mediated radical cyanoalkylation/cyanoalkenylation of 2-anilino-1,4-naphthoquinones with vinylarenes/arylalkynes and azobis(alkylcarbonitrile)s

Mayurakhi Bhuyan, Suraj Sharma, Nibedita Baruah Dutta and Gakul Baishya\*



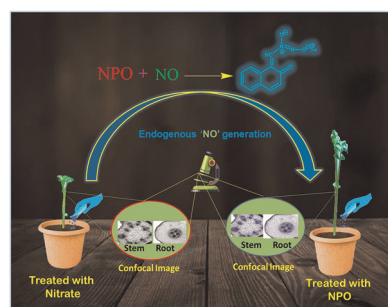


## PAPERS

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## Direct fluorescence labelling of NO inside plant cells

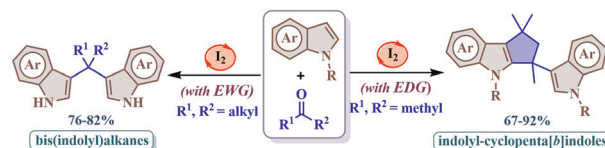
Priyotosh Ghosh, Shrabani Saha, Sunanda Mukherjee, Ansuman Chattopadhyay and Prithidipa Sahoo\*



9275

Molecular-iodine catalyzed selective construction of cyclopenta[*b*]indoles from indoles and acetone: a green gateway to indole-fused cycles

Prantika Bhattacharjee, Bipul Sarma and Utpal Bora\*



- Iodine catalysis
- Substituent-guided
- Intramolecular cyclization
- Bis(indolyl)alkane intermediate

