

# Organic & Biomolecular Chemistry

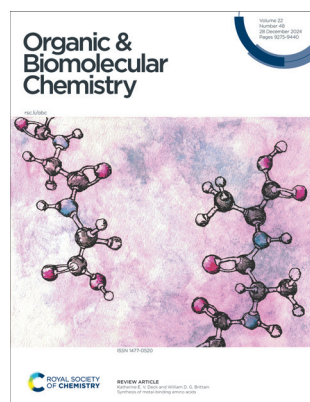
An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 22(48) 9275-9440 (2024)



### Cover

See Katherine E. V. Deck and William D. G. Brittain, pp. 9283–9318.

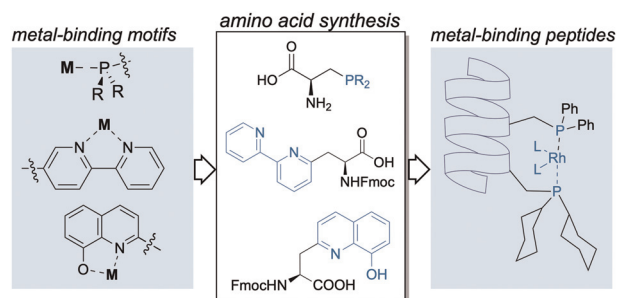
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## REVIEWS

9283

### Synthesis of metal-binding amino acids

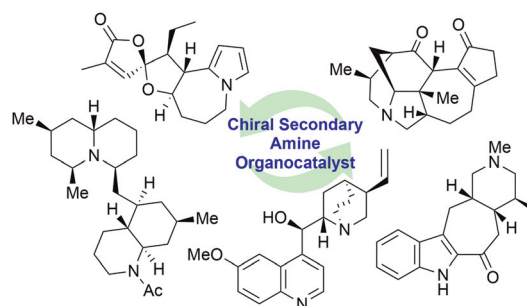
Katherine E. V. Deck\* and William D. G. Brittain\*



9319

### Recent advances in the total synthesis of alkaloids using chiral secondary amine organocatalysts

Yuta Nakashima, Kenta Rakumitsu and Hayato Ishikawa\*



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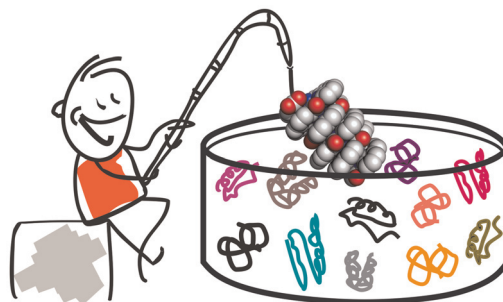
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## COMMUNICATIONS

9342

**Interrogating the potential of helical aromatic foldamers for protein recognition**

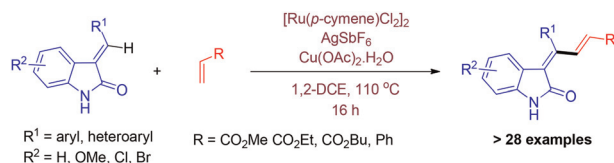
Sunbum Kwon, Vasily Morozov, Lingfei Wang, Pradeep K. Mandal, Stéphane Chaignepain, Céline Douat and Ivan Huc\*



9348

**Ruthenium-catalyzed Heck coupling of 3-arylidene-oxindoles with alkenes: a facile synthesis of 3-allylidene-2(3H)-oxindoles**

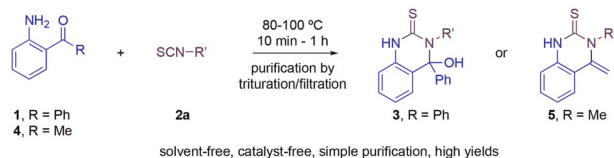
Mohan Prabhakaran, Ramesh Sanjana and Kanniyappan Parthasarathy\*



9353

**A solvent-free and catalyst-free reaction of o-aminobenzophenone with aryl isothiocyanates: expedient access to congested 4-phenyl-4-hydroxyquinazolin-2-thione derivatives**

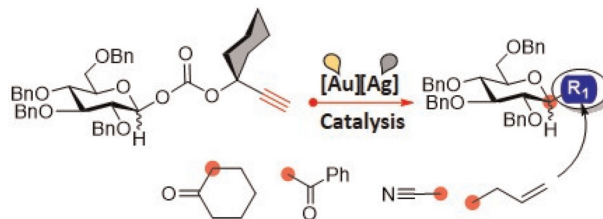
Le Anh Nguyen, Thi Thu Tram Nguyen, Quoc Anh Ngo,\* Pascal Retailleau and Thanh Binh Nguyen\*



9357

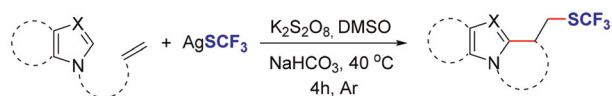
**[Au]/[Ag]-catalysed synthesis of non-hydrolysable C-glycosides**

Saptashwa Chakraborty, Daksh Telang, Bijoyananda Mishra and Srinivas Hotha\*



## COMMUNICATIONS

9361



X = N, C

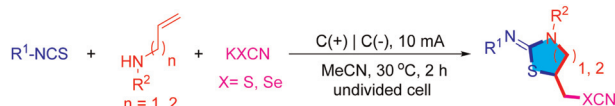
33 examples  
up to 81% yield

- Metal free
- Mild reaction conditions
- Gram scale reaction
- High atom economy

### Silver-mediated radical cascade trifluoromethylthiolation/cyclization of benzimidazole derivatives with AgSCF<sub>3</sub>

Pan Liu, Yang Geng, Dapeng Zou,\* Yangjie Wu\* and Yusheng Wu\*

9366



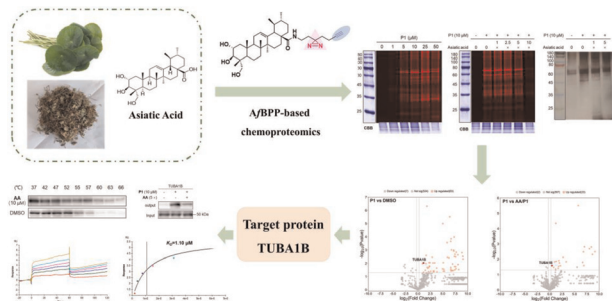
- One-pot
- External oxidant-free
- External metal-free
- External electrolyte-free
- Mild conditions
- Large-scale synthesis

### Electrochemical one-pot cascade synthesis of thio(seleno)cyanato-substituted thiazolidine-2-imines without external electrolyte

Xiao Yu, Liqiang Hao, Xian Liu, Shengkui Jin, Yangchen Li, Yiping Liu\* and Yafei Ji\*

## PAPERS

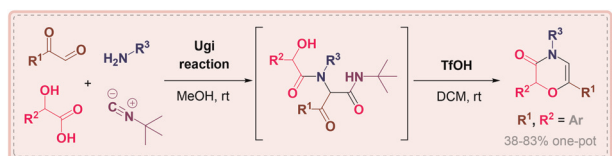
9371



### Identification of $\alpha$ -tubulin alpha-1B chain as a target of asiatic acid using chemical proteomics in HepG2 hepatoma cells

Hong Yang, Bingbing Yang, Yu Teng, Jun Ge,\* Xinchi Feng\* and Yulin Tian\*

9379



### Triflic acid-promoted post-Ugi condensation for the assembly of 2,6-diarylmorpholin-3-ones

Niyaz Amire, Kamila M. Almagambetova, Assel Turlykul, Aidyn Taishybay, Gulzat Nuroldayeva, Andrey Belyaev, Anatoly A. Peshkov, Darkhan Utepbergenov and Vsevolod A. Peshkov\*

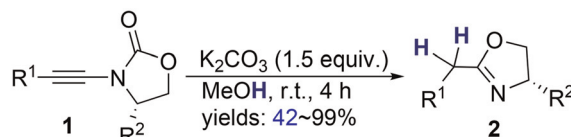


## PAPERS

9388

### Base-promoted tandem ring-opening/ring-closing of *N*-alkynyl-2-oxazolidinones enables facile synthesis of 2-oxazolines

Xingyuan Ye, Peng Bao, Yan Pan, Han Xiao, Qiuwen Li and Guangke He\*



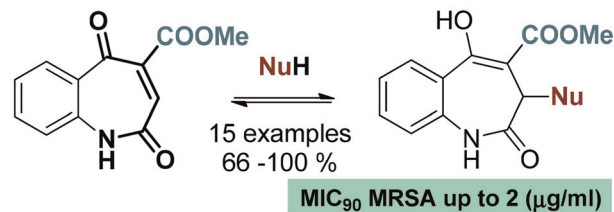
$R^1 = H$ , aryl, alkenyl, and heteroaryl;  $R^2 =$  Aryl and alkyl

- up to 99% yield
- without column chromatography
- ambient conditions
- late-stage functionalization
- gram-scale synthesis
- good functionality tolerance

9394

### A novel 1-benzoazepine-derived Michael acceptor and its hetero-adducts active against MRSA

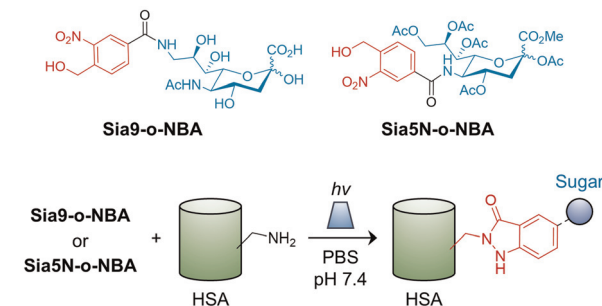
Olga Caletková,\* Lucia Pinčková, Jana Nováčiková, Róbert Gyepes, Petra Olejníková, Peter Pôbiš, Helena Kandárová and Dušan Berkeš\*



9403

### Non-natural sialic acid derivatives with *o*-nitrobenzyl alcohol substituents for light-mediated protein conjugation and cell imaging

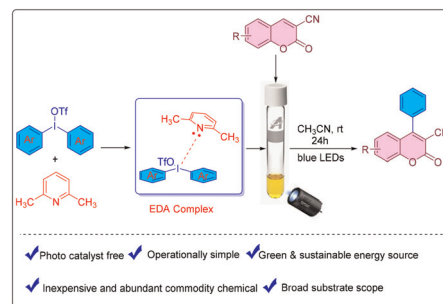
Guo-Biao Zhu, Chen Guo, Xue-Lian Ren, Ming-Zhe Li, Di-Ya Lu, Xi-Le Hu,\* He Huang,\* Tony D. James\* and Xiao-Peng He\*



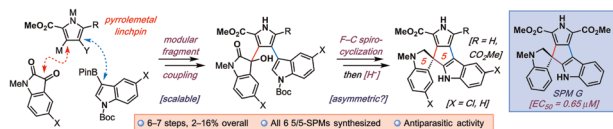
9408

### Novel electron donor–acceptor (EDA) complex promoted arylation of 2-oxo-2*H*-chromene-3-carbonitriles under visible light irradiation

Tanmoy Sahoo, Dasari Vijaya Prasanna, B. Sridhar and B. V. Subba Reddy\*



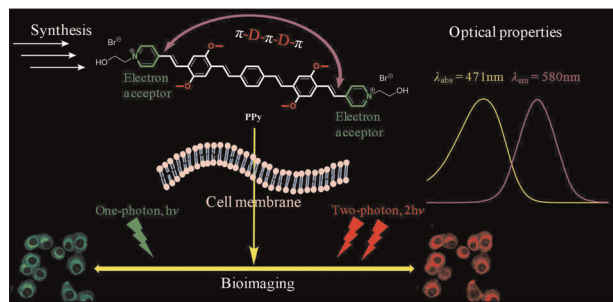
9413



### Synthesis of the 5/5-spiroindimicin alkaloids: development of a general synthetic approach and biological investigations

Ankush Banerjee, Tiffany A. Brisco, Sneha Ray, Arani Datta, Xiaoyu Zhang, Zhen Zhang, Alexander A. Busse, Hanspeter Niederstrasser, Kristy Sumida, Bruce A. Posner, Dawn M. Wetzel, Margaret A. Phillips and Myles W. Smith\*

9426



### Synthesis, optical properties, and two-photon bioimaging evaluation of novel fluorescent cationic molecules with symmetrical long conjugated all-*trans* structures

Qiong Huang, Zhi-Bin Cai,\* Sheng-Li Li, Li-Jun Chen, Qing Ye and Yu-Peng Tian

