

# Organic & Biomolecular Chemistry

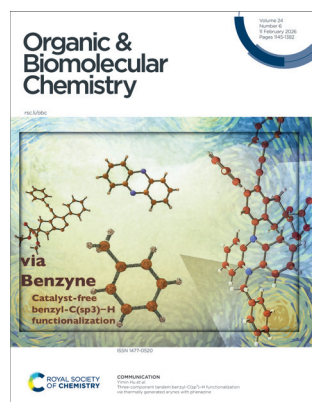
An international journal of synthetic, physical and biomolecular organic chemistry

rsc.li/obc

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

## IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 24(6) 1145-1382 (2026)



**Cover**  
See Yimin Hu *et al.*,  
pp. 1231–1236.

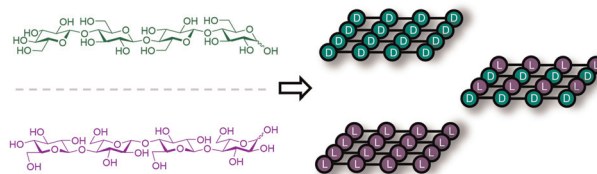
Image reproduced by  
permission of Yimin Hu from  
*Org. Biomol. Chem.*, 2026,  
24, 1231.

## REVIEWS

1155

### Leveraging mirror-image glycans in carbohydrate materials

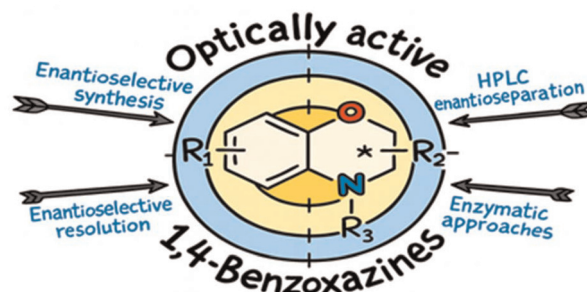
Dominik Weh and Martina Delbianco\*



1173

### Optically active dihydro-1,4-benzoxazines: synthetic, separation, and enzymatic approaches

Benjamin Coquelle, Hong-Ngoc Pham, Axelle Arrault\* and Samir Achcar\*



GOLD  
OPEN  
ACCESS

# RSC Applied Polymers

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access

[rsc.li/RSCApplPolym](http://rsc.li/RSCApplPolym)

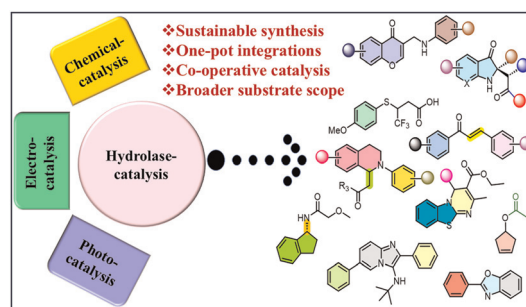
Fundamental questions  
Elemental answers

## REVIEWS

1198

## Hydrolase biocatalysis integrated with chemo-, electro-, and photocatalysis for sustainable organic synthesis

Parmjeet Kaur and Vikas Tyagi\*

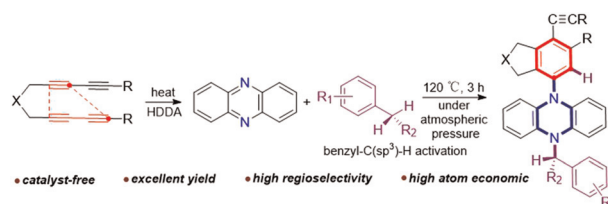


## COMMUNICATIONS

1231

Three-component tandem benzyl-C(sp<sup>3</sup>)-H functionalization via thermally generated arynes with phenazine

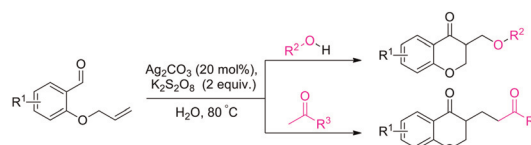
Yajuan Zhang, Fuxiang Chai, Qiong Hu, Meng Chang, Ruihua Qiang and Yimin Hu\*



1237

## Silver catalyzed cascade cyclization of 2-(allyloxy) arylaldehydes: synthesis of chroman-4-one derivatives

Jing Zhao, Wenbin Guo, Mei Fang, Xuwen Li, Guangjie Wu and Liping Wang\*

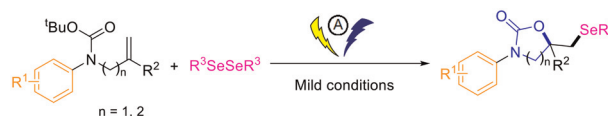


1. a novel and atom economical method for the synthesis of chroman-4-ones
2. commercially available silver catalyst
3. many alcohols and ketones were respectively adopted as both solvent and oxalyalkyl or carbonyl source

1242

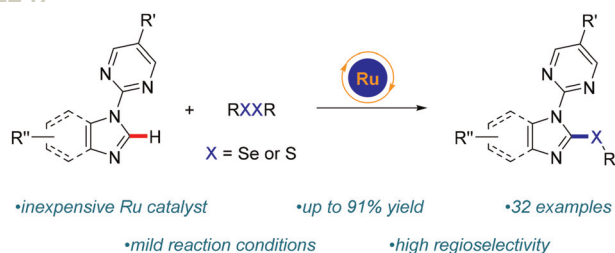
## Electrocatalytic selenocyclization for the synthesis of selenium-containing oxazolidinones

Yiyi Chen, Yi Xu, Zihao Ma, Hanlin Wang, Qisheng Chen, Shuangquan Zhang, Kun Feng, Xiaohui Chen\* and Xianqiang Kong\*



## COMMUNICATIONS

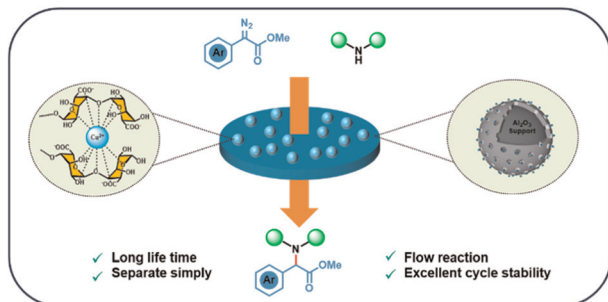
1247



### Ruthenium-catalyzed direct C2–H selenylation of (benz)imidazoles

Dan-Dan Liu, Chu Zou, Shu-Ting Hu, Wen-Jing Xu, Wan Xu, Merziya Keram, Xin Xu,\* Zhou Xu\* and Yu-Chao Yuan\*

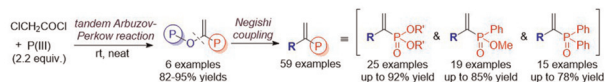
1252



### Sodium alginate-modified copper catalytic membrane for carbene N–H insertion

Liang Shen, Yong Zhou, Jiacheng Rui, Haoran Li, Lianzeng Zhang, Wei Guo, Rizhi Chen\* and Xiaojin Wu\*

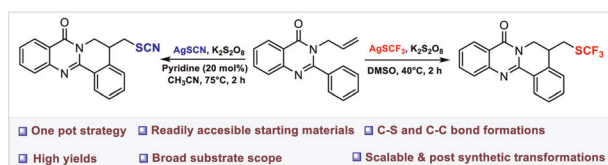
1257



### Tandem Arbuzov–Perkow reaction: general synthesis of $\alpha$ -substituted vinyl P(v)-compounds

Kuo Zhao, Wenjie Liu, Yu Huang, Qian Wu, Yingle Liu,\* Huichuang Guo\* and Enxue Shi\*

1263



### Radical-promoted cyclization of 3-allyl-2-arylquinazolinones mediated by silver(I) salts to access SCF<sub>3</sub>/SCN-enriched dihydroisoquinolino [1,2-*b*]quinazolinones

Vijay Vara, Kishor R. Thete, Akram A. Khan and M. Muthukrishnan\*

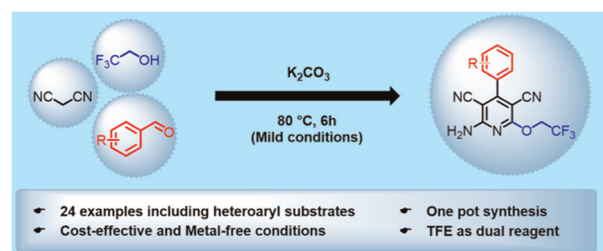


## COMMUNICATIONS

1268

One-pot synthesis of  $\alpha$ -(OCH<sub>2</sub>CF<sub>3</sub>)-substituted pyridines using TFE as both a solvent and a reagent

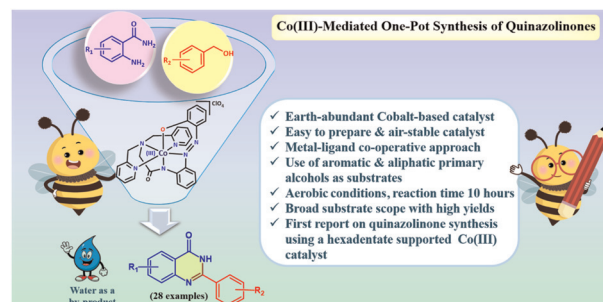
Desai Bhavyesh, Arti Ramani, Yash Dhaduk, Anilkumar Kommoju, Piyushkumar Satani, Kishor Padala\* and Togati Naveen\*



1274

A hexadentate Co(III) catalyst enables one-pot quinazolinone synthesis *via* metal–ligand cooperative alcohol activation

Prashant Kukreti, Tanya Pattnaik, Rahul Chauhan, Keshav Sharma, Rahul Saini and Kaushik Ghosh\*

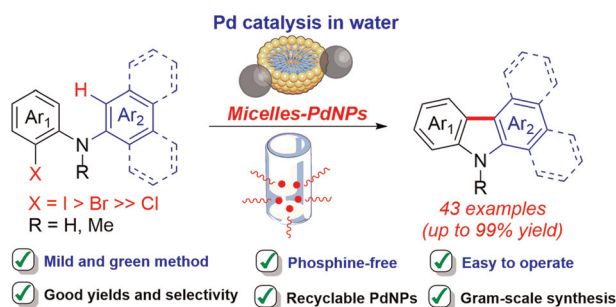


## PAPERS

1279

Synthesis of carbazoles *via* aryl C–H activation triggered by surfactant-associated palladium nanoparticles under microwave-assisted heating

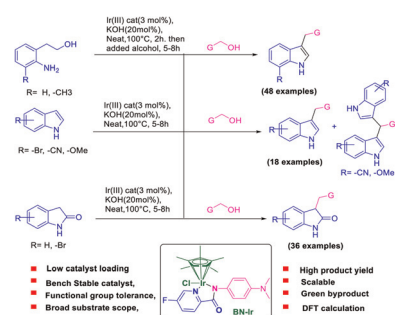
Safiu Alam,\* Aminur Khan, Asifur Rahaman Mallick, Md Samiul Islam, Abhimanyu Sarkar, Bibhutibhushan Show,\* Jakir Ahmed, Amit Kumar, Antoine Maruani and Hamid Dhimane\*



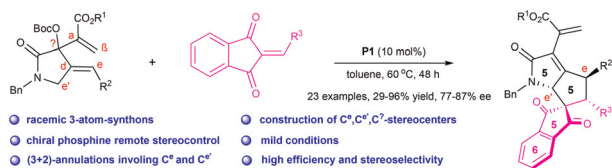
1295

## Hydrogen borrowing enabled Cp\*Ir(III)-catalyzed C3 alkylation of indoles and oxindoles

Md. Bakibillah, Nazma Hasan, Rahul Kumar Singh and Rajesh Kumar Das\*



1318

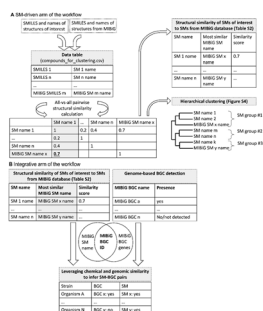


- racemic 3-atom-syntheses
- chiral phosphine remote stereocontrol
- (3+2)-annulations involving C<sup>α</sup> and C<sup>β</sup>
- construction of C<sup>α</sup>, C<sup>β</sup>, C<sup>γ</sup>-stereocenters
- mild conditions
- high efficiency and stereoselectivity

## Remote-stereocontrolled (3 + 2)-annulation of pyrrolidinone-based MBH carbonates with 2-arylideneindane-1,3-diones

Rongzhen Li, Changzhen Zhai, Xuling Chen, Xinyan Ke, Shao-Fei Ni and Pengfei Li\*

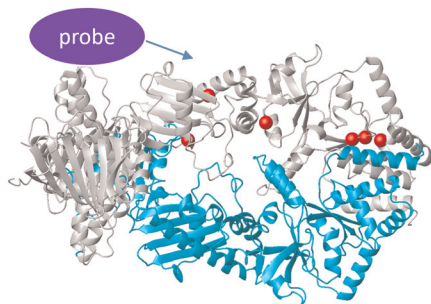
1323



## An integrative chemical and genomic similarity approach linking fungal secondary metabolites and biosynthetic gene clusters

Karin Steffen, Manuel Rangel-Grimaldo, Thomas J. C. Sauters, David C. Rinker, Huzefa A. Raja, Tyler N. Graf, Adiyantara Gumilang, Olivia L. Riedling, Gustavo H. Goldman, Nicholas H. Oberlies and Antonis Rokas\*

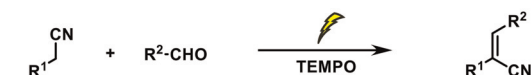
1339



## Assessment of solvent exposure of native cysteines in human Hsp90 using thiol-reactive functional tags

Ya-Xin Xie, Xi-Wei Wang, Xing Zhang, Jia-Long Zhao, Dan Cheng, Yin Yang,\* Daniela Goldfarb and Xun-Cheng Su\*

1346



- ✓ Strategic coupling of multiple redox
- ✓ Base-free
- ✓ TEMPO-catalyst
- ✓ Broad substrate scope

## Synthesis of $\alpha$ -alkenylated nitriles via electrochemical generation of ketyl radicals

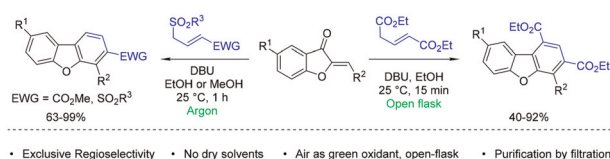
Kai Li, Hao Yang, Yupu Zhang, Qi Sun\* and Zhiyong Wang\*



1352

### Arylsulfone-driven divergence in base-mediated [3 + 3] benzannulation reactions of aurones: facile synthesis of substituted dibenzofurans

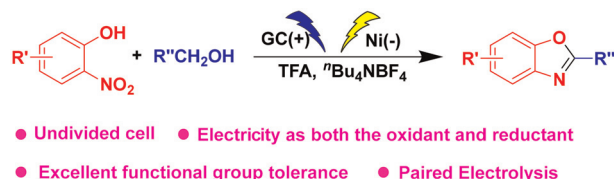
Farooqe Husni P., Alex Andrews P. and Rajeev S. Menon\*



1358

### Electrosynthesis of benzoxazoles from *o*-nitrophenols and alcohols

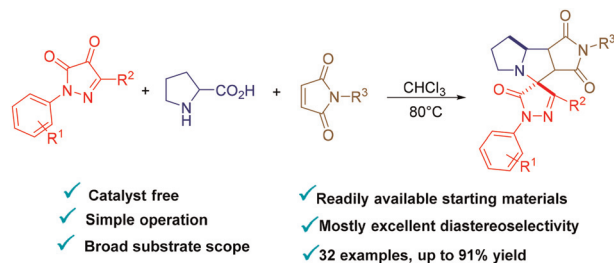
Ran Ma,\* Yuqi You, Yixin Wang, Qingfei Xue, Tong Zhang, Zhiyuan Jiang and Yang Yang\*



1363

### A three-component 1,3-dipolar cycloaddition of pyrazolone-derived azomethine ylides with succinimides for the construction of novel spiro-pyrazolone-pyrrolizines containing succinimides

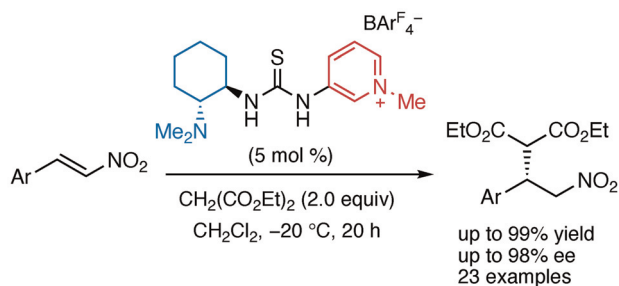
Jianming Xu, Dan Hu, Jian Wang, Song Hu, Heng Yin, Yulong Li\* and Chenyi Li\*



1369

### An electrostatically enhanced bifunctional enantioselective thiourea catalyst

Josiah K. Nisly and Steven R. Kass\*



## CORRECTIONS

1379

**Correction: Synthesis of thiazolo[4,5-d]pyrimidine derivatives based on purine via solid-phase synthesis**

Jimin Moon, Hyojin Lee, Jungtae Kim, Shuanghui Hua, GeonHo Yoon, Hyeokjin Lee, Sugyeong Seo, Yoojin Joo, Heung-Seop Yim\* and Taeho Lee\*

1380

**Correction: Modular and chromatography-free synthesis of natural linear polyamines**

Masato Takahashi,\* Teruyuki Kobayashi, Takuya Noguchi, Seisuke Mimori, Masakiyo Hosokawa, Takashi Fukui, Akira Takagi, Nobuaki Okumura, Hiroshi Kawabe, Takanori Yano, Naomi Ohta, Akihisa Hata, Ryoji Mitsui and Noboru Fujitani

