

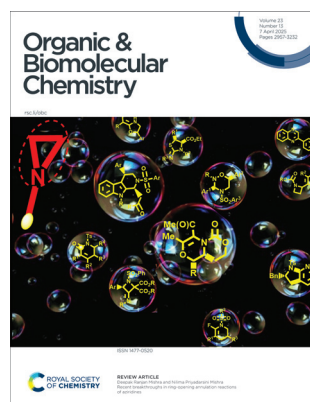
# Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry  
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ISSN 1477-0520 CODEN OBCRAK 23(13) 2957-3232 (2025)



### Cover

See Deepak Ranjan Mishra and Nilima Priyadarsini Mishra, pp. 2967–2996.

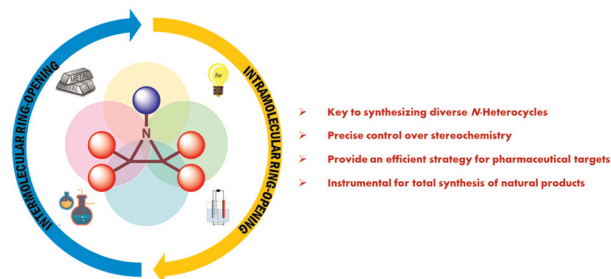
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## REVIEWS

2967

### Recent breakthroughs in ring-opening annulation reactions of aziridines

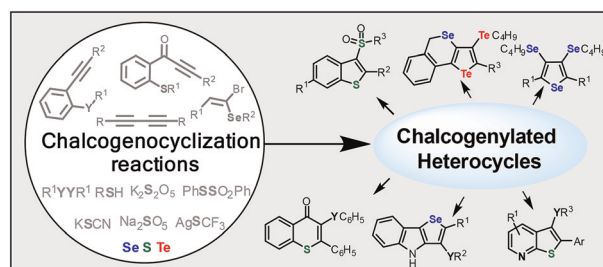
Deepak Ranjan Mishra and Nilima Priyadarsini Mishra\*



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### Recent advances in the synthesis of chalcogenylated heterocycles obtained by chalcogenocyclization

Ricardo H. Bartz, Paola S. Hellwig, Kethelyn M. Rosa, Márcio S. Silva, Eder J. Lenardão,\* Raquel G. Jacob and Gelson Perin\*



# RSC Advances

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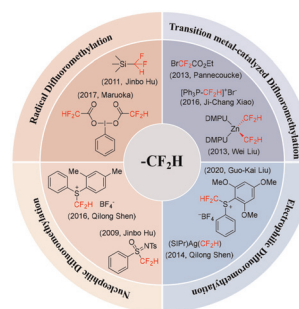
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## REVIEWS

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## New synthetic approaches for the construction of difluoromethylated architectures

Zhou Sun, Xue-Song Zhang,\* Shao-Wei Bian,\* Chun Zhang, Ya-Ping Han\* and Yong-Min Liang

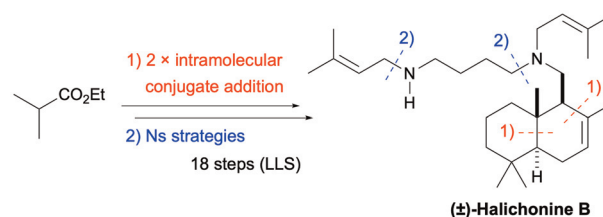


## COMMUNICATIONS

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## Total synthesis of (±)-halichonine B

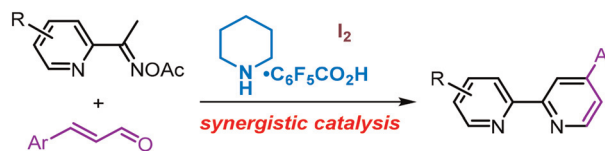
Fumihiko Yoshimura,\* Masaya Uchida, Kaori Aratame, Hitoshi Ouchi, Makoto Inai, Mitsuru Kondo, Ryo Takita and Toshiyuki Kan



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An I<sub>2</sub>/amine synergistic catalysis enables 2,2'-bipyridine synthesis from oxime esters and enals

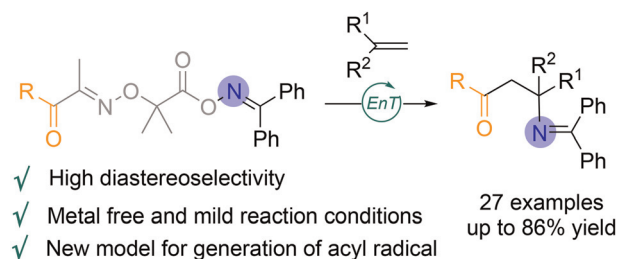
Xiao-Kun Jin, Jia-Hao Zhou, Han-Ying Zeng, Mei-Jun Zheng, Zi-Hao Li, Ye Wei\* and Kun Jiang\*



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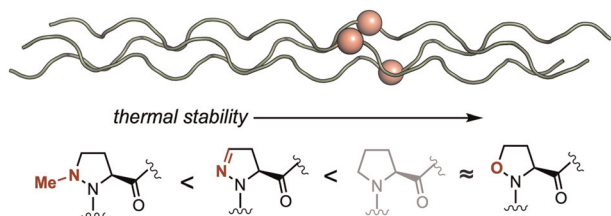
## Energy transfer-mediated carbonylimination of alkenes using a bifunctional reagent

Zetian Sun, Weishu Yu, Xiaoqing Li, Xiangsheng Xu\* and Xiaohua Du\*



## COMMUNICATIONS

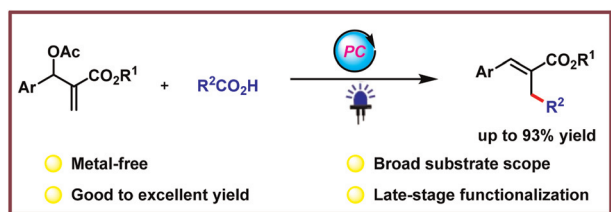
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### Synthesis and stability of collagen mimetic peptides featuring $\delta$ -heteroatom-substituted prolines

Taylor A. Gerrein, Madison M. Wright,  
Natalia Cano-Sampaio and Juan R. Del Valle\*

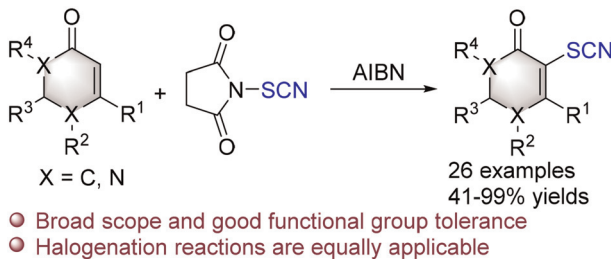
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### Visible light-mediated decarboxylative allylic alkylation of Morita–Baylis–Hillman acetates with unactivated aliphatic acids

Hui Zhang, Dan Yang,\* Yu-Tong Mei, Zi-Yi Guo,  
Qiu-Yao Hou, Yu-Xuan Zheng, Lin-Hai Jing,\*  
De-Jun Cheng and Ming-Song Shi\*

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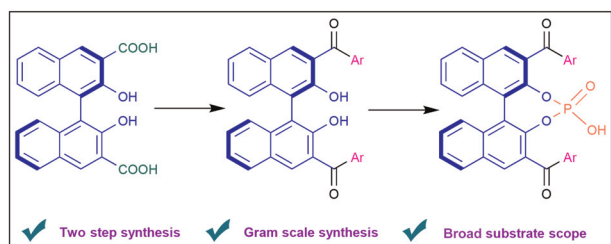


### Selective C(sp<sup>2</sup>)-H bond radical thiocyanation of cyclic $\alpha,\beta$ -unsaturated ketones

Mengyi Li, Yu Zhang, Yu Zhao, Jingfu Zhu, Yu Cheng,  
Wei Li\* and Di Wu\*

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Muthupandi Karthick, Nagamalla Someshwar,  
Chinnasamy Ramaraj Mariappan,  
Alagunambi Ramasubbu and  
Chinnasamy Ramaraj Ramanathan\*



## PAPERS

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**Photoredox nickel-catalyzed radical cyclization of *N*-arylacrylamides with alkyl bromides**

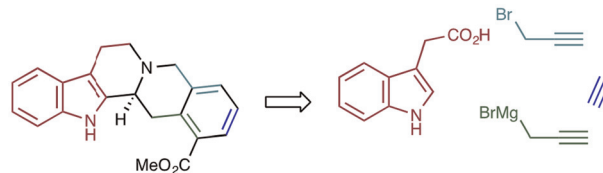
Yan-Ling Liu, Liu-Shuo Shi, Xian-Chen He, Jie Gao, Ke-Rong Li, Hao-Yue Xiang, Kai Chen\* and Hua Yang\*



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**Synthesis of dihydrogambirtannine by alkyne [2 + 2 + 2]-cyclootrimerisation**

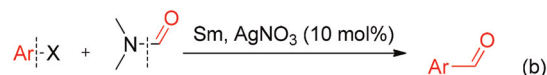
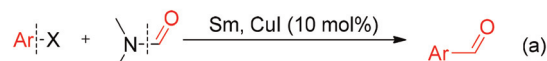
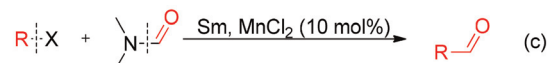
Pattarakiat Seankongsuk, Patcharaporn Sae-Lao, Shi He, Veronica Pereira and Roderick W. Bates\*



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**A MnCl<sub>2</sub>-catalyzed synthesis of aldehydes from organohalides by using samarium metal in DMF**

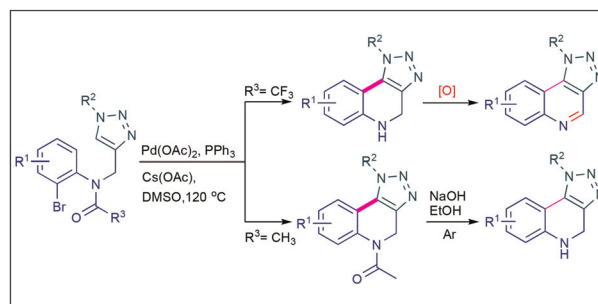
Hongping Chen, Mingzhong Mi, Chao Wang, Aowen Li, Yan Qi\* and Yongjun Liu\*

**The prior work****The current work**

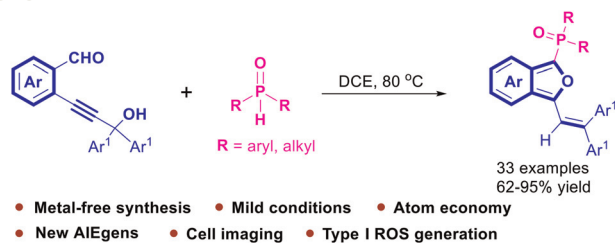
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**Pd-catalyzed intramolecular C–H activation for the synthesis of fused-1,2,3-triazole quinolines and dihydroquinolines**

Karim Ullah, Dario Allevi, Giancarlo Fabrizi, Antonella Goggiamani, Federico Marrone and Antonia Iazzetti\*



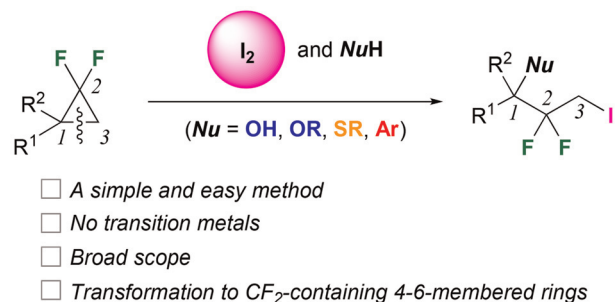
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### Phosphinylation/cyclization of propynolaldehydes to isobenzofuranylic phosphine oxides displaying AIE properties

Xin Chang, Xiao-Wen Han, Hai-Tao Zhu,\* Ni-Ni Zhou, Nan Yang, Cheng-Ping Shen, Chunxuan Qi, An-Xi Zhou, Hai-Tao Feng\* and Ben Zhong Tang\*

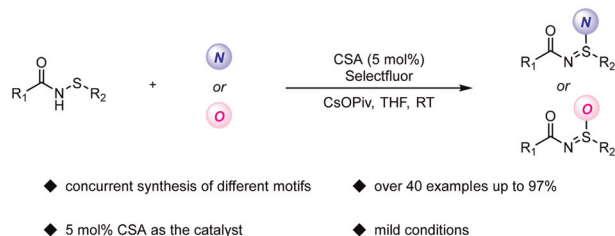
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### I<sub>2</sub>-mediated convenient ring-opening of simple gem-difluorocyclopropanes

Toshihito Goto, Sakuya Shirai, Tomoko Kawasaki-Takasuka,\* Tomohiro Agou and Takashi Yamazaki

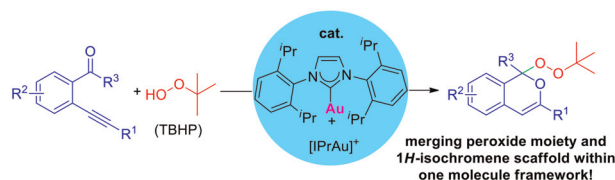
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### Brønsted acid-catalyzed synthesis of sulfinamidines and sulfinimidate esters through electrophilic fluorination and substitution

Min Li, Jingyu Wang, Xiongfei Ou and Jingxun Yu\*

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### Gold(i)-catalyzed tandem cyclization/peroxidation of 2-alkynyl-1-carbonylbenzenes with TBHP

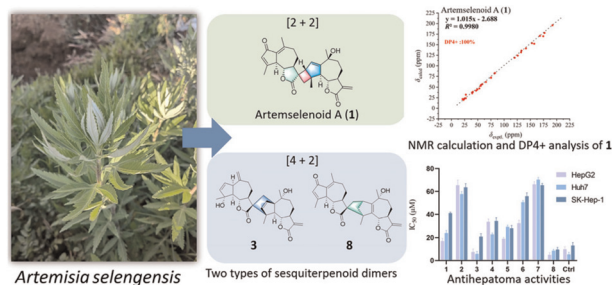
Lang Chen, Qibo Ni, Yan Zhou and Yunkui Liu\*



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### Artemeselenoids A–H, eight guaianene-type sesquiterpenoid dimers from *Artemisia selengensis* and their antihepatoma activities

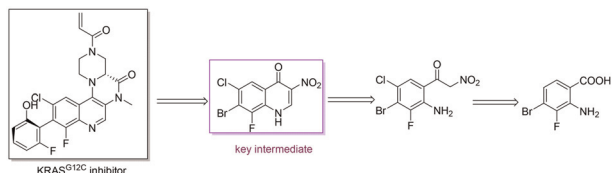
Rong-Kai Chen, Tian-Ze Li, Yun-Bao Ma, Yong-Cui Wang and Ji-Jun Chen\*



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### Stereoselective synthesis of a KRAS<sup>G12C</sup> inhibitor with a quinoline-piperazine scaffold

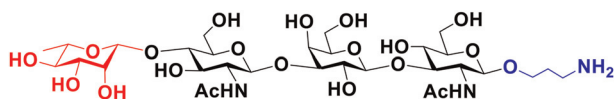
Ying Hu, Jing Zheng, Yin-Jun Chen, Wei-Yi Pu, Yan-Jun Xu\* and Lin Dong\*



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### Synthesis of $\beta$ -rhamnose containing ready to conjugate tetrasaccharide repeating unit corresponding to the K141 CPS of *Acinetobacter baumannii* KZ1106

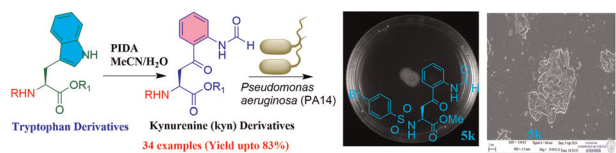
Swapnendu Pramanik and Abhishek Santra\*



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### PIDA-mediated synthesis of kynurenine derivatives by oxidative fragmentation of the tryptophan scaffold

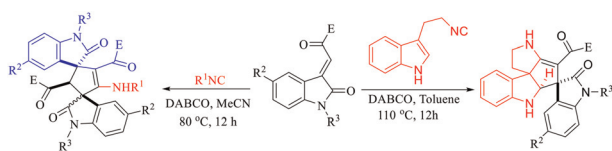
Chinmay K. Jena, Aurobindo Patnaik, Sushree S. Nayak, Supriya Kumari, Ankita Panda, Manjusha Dixit and Nagendra K. Sharma\*



□ Synthesis of Kynurenines □ Anti-Quorum Sensing Activity □ Reduction in Biofilm/pyocyanin formation □ Down regulation in *LasI/B/R* genes □ SEM-images of kyn treated bacteria (PA14)



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### Efficient construction of spirocyclopentane-1,3-dioxindoles via an annulation reaction of isocyanides and 3-methyleneoxindoles

Li Huang, Wei-Qing Ma, Jing Sun, Ying Han and Chao-Guo Yan\*

