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An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

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### Cover

See Arun K. Ghosh and  
Monika Yadav,  
pp. 5768–5774.

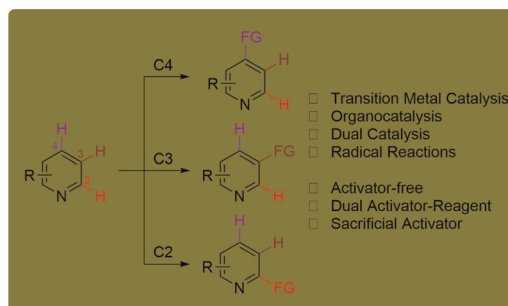
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**21**, 5768.

## REVIEWS

5671

### C–H functionalization of pyridines

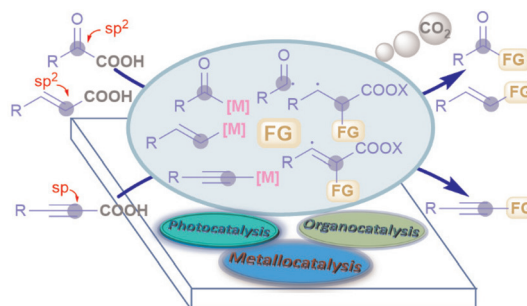
Susmita Maity, Asish Bera, Ayantika Bhattacharjya and  
Pradip Maity\*



5691

### Recent advances in catalytic decarboxylative transformations of carboxylic acid groups attached to a non-aromatic $sp^2$ or $sp$ carbon

Ajijur Rahaman, Shivani Singh Chauhan and  
Sukalyan Bhadra\*



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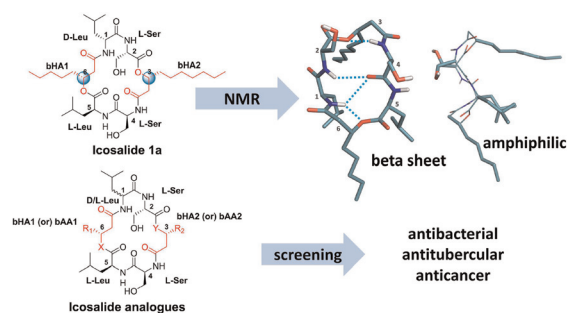


## COMMUNICATIONS

5725

### Total synthesis, structure elucidation and expanded bioactivity of icosalide A: effect of lipophilicity and ester to amide substitution on its bioactivity

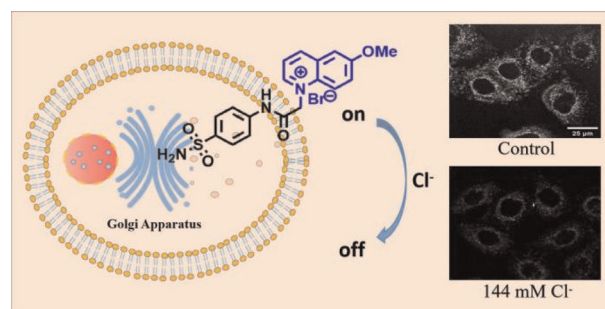
Abha Dangi, Bharat Pande, Sonia Agrawal, Dhiman Sarkar, Koteswara Rao Vamkudoth and Udaya Kiran Marelli\*



5732

### Synthesis of a Golgi-targeting fluorescent probe for the selective detection of chloride anions

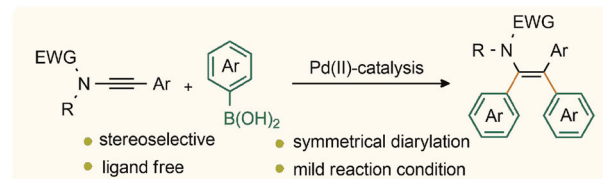
Min Yuan, Jinhui Hu\* and Wen-Hua Chen\*



5737

### Two-component symmetrical diarylation of ynarnides

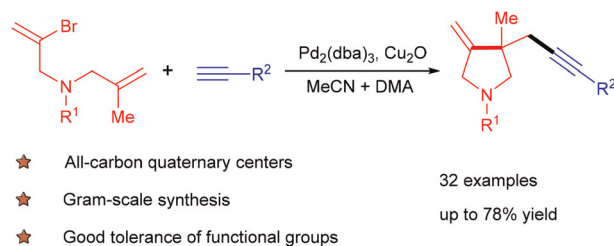
Aradhana Sahoo, Shubham Dutta and Akhila K. Sahoo\*



5742

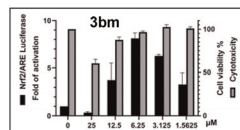
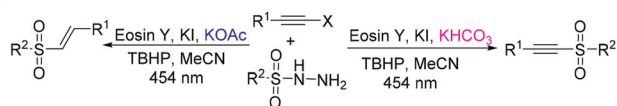
### Pd/Cu-catalyzed cascade Heck-type reactions of alkenyl halides with terminal alkynes toward substituted pyrrolidine analogues

Shiji Xu, Qiang Wang, Jing Sun, Ying Han, Weiming Hu,\* Lei Wang\* and Chao-Guo Yan\*



## COMMUNICATIONS

5747

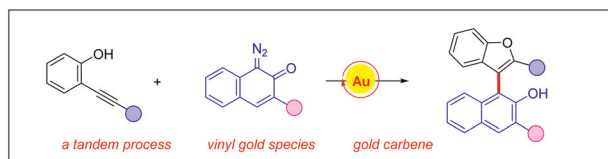


- 41 examples, up to 98% yield
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- good functional group tolerance
- broad substrate scope

### Photocatalytic synthesis of alkynylsulfones and alkenylsulfones using sulfonylhydrazides and alkynes

Xiaoju Yang, Jumei Yi, Xinhan Li, Yihang Wu, Jun Dong, Zhenxiu He, Guangzhi Zeng,\* Jianbin Xu\* and Baomin Fan\*

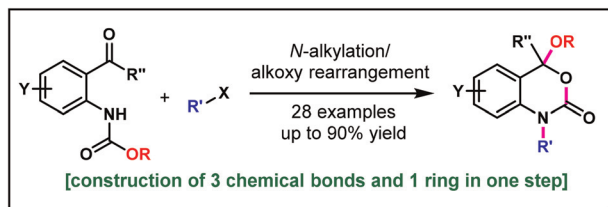
5752



### Gold-catalyzed tandem reaction of o-alkynylphenols with diazo compounds: access to 2,3-disubstituted benzofurans

Tingzhong Huang, Ying Shao, Shengbiao Tang and Jiangtao Sun\*

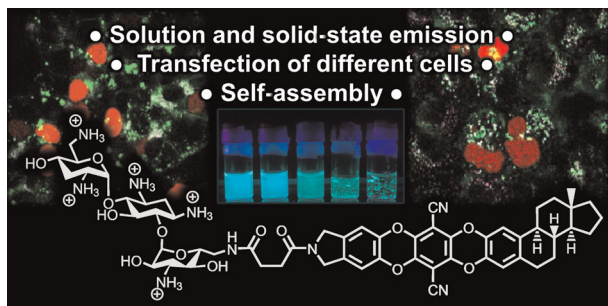
5757



### Convenient synthesis of *N*-alkyl-3,1-benzoxazin-2-ones from carbamate protected anthranil aldehydes and ketones via one-step alkylation/alkoxy rearrangement

Guang Tian, Wei-Li Jin, Chuanguang Qin\* and Jie Wang\*

5762



### Deoxyestrone-based lipofection agents with solution- and solid-state emission properties

Alexander Huber, Johannes Koch, Kevin Rudolph, Alexander Höing, Fabio Rizzo, Shirley K. Knauer and Jens Voskuhl\*

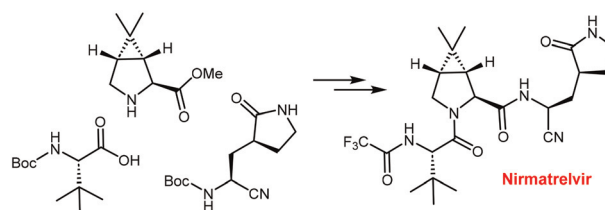


## PAPERS

5768

# Synthesis of optically active SARS-CoV-2 Mpro inhibitor drug nirmatrelvir (Paxlovid): an approved treatment of COVID-19

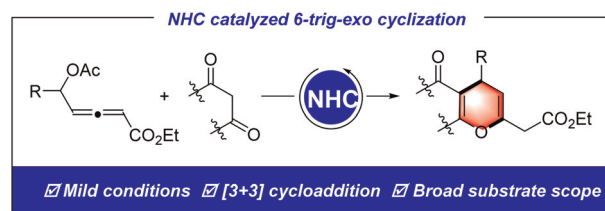
Arun K. Ghosh\* and Monika Yadav



5775

# NHC-catalyzed formal [3 + 3] annulations of $\delta$ -acetoxo allenates for the synthesis of 4*H*-pyran derivatives

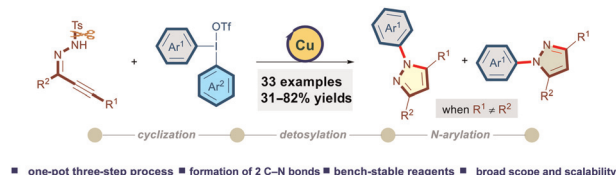
Bai Shi, Fangyi Jin, Qi Lv, Xinrong Zhou, Zhixiao Liao, Chenxia Yu, Kai Zhang\* and Changsheng Yao\*



5784

# Copper-catalyzed tandem cyclization/arylation of $\alpha,\beta$ -alkynic hydrazones with diaryliodonium salts: synthesis of *N*-arylpzazoles

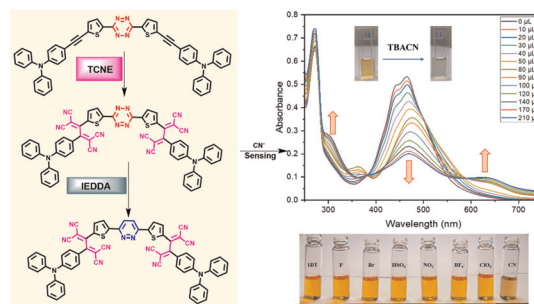
Sushanta Kumar Parida, Saurav Joshi and Sandip Murarka\*



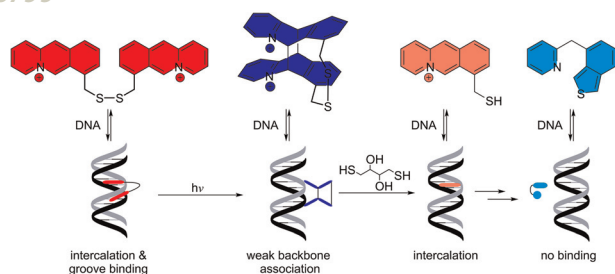
5790

# Synthesis of tetrazine-tetracyanobutadienes and their transformation into pyridazines via inverse-electron demand Diels–Alder cycloaddition (IEDDA)

Abhijeet V. Kamble, Aswani Raj K and Rajeswara Rao Malakalapalli\*



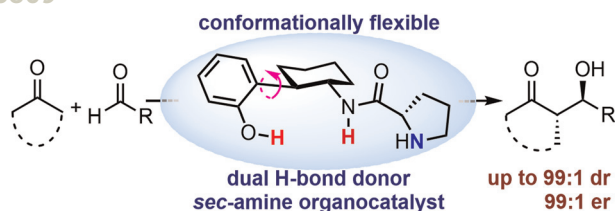
5799



## Switching between DNA binding modes with a photo- and redox-active DNA-targeting ligand, part II: the influence of the substitution pattern

Christoph Dohmen and Heiko Ihmels\*

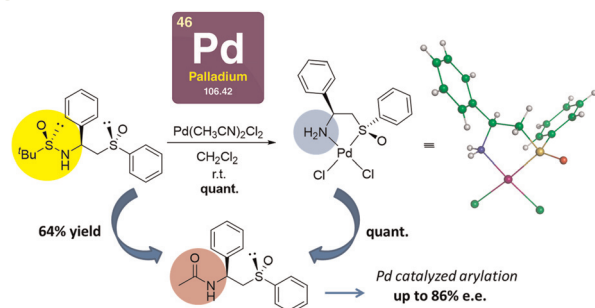
5809



## Prolinamides containing 2-(2-aminocyclohexyl)phenols as highly enantioselective organocatalysts for aldol reactions

Tolga A. Yeşil, Taner Atalar, Mustafa Yavuz and Erkan Ertürk\*

5827

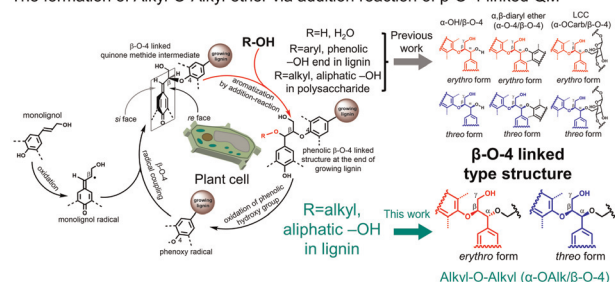


## Synthesis and characterization of enantiopure chiral NH<sub>2</sub>/SO palladium complexes

Nazaret Moreno-Rodriguez, L. Gabriel Borrego, Rocío Recio,\* Victoria Valdivia, M. Carmen Nicasio, Eleuterio Álvarez, Noureddine Khier and Inmaculada Fernández\*

5840

The formation of Alkyl-O-Alkyl ether via addition reaction of  $\beta$ -O-4 linked QM



## Formation of lignin alkyl-O-alkyl ether structures via 1,6-addition of aliphatic alcohols to $\beta$ -O-4-aryl ether quinone methides

Xuhai Zhu, Dazhi Zhang, Rui Lu and Fang Lu\*

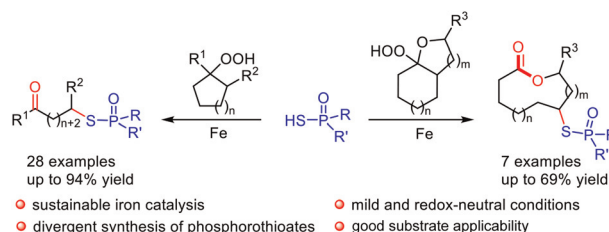


## PAPERS

5855

# Iron-catalyzed alkoxy radical-mediated C–C bond cleavage/phosphorothiolation: a new approach to functionalized S-alkyl phosphorothioates

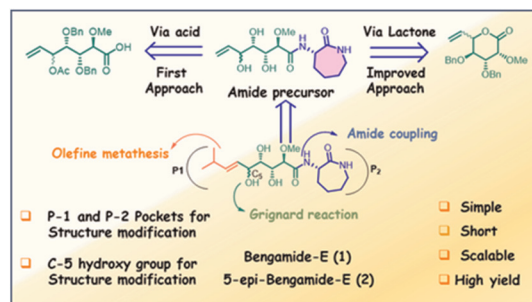
Ming Bai, Shuai Liu, Hong Xin, Xu Yang, Xin-Hua Duan and Li-Na Guo\*



5861

# A simple and efficient pathway for the total synthesis of marine natural products: bengamide E and 5-*epi*-bengamide E

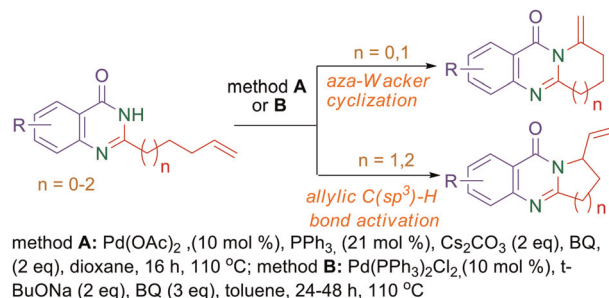
Akanksha Gupta, Praveen Ambati and Ramu Sridhar Perali\*



5866

# Pd-catalyzed oxidative amination of 2-alkenylquinazolin-4(3*H*)-ones: synthesis of methylene and vinyl derivatives of pyrrolo(pyrido)[2,1-*b*]quinazolinones

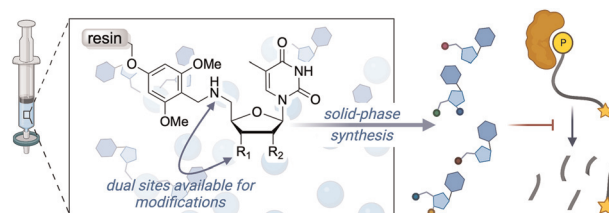
Alla I. Vaskevych,\* Nataliia O. Savinchuk, Ruslan I. Vaskevych, Svitlana V. Shishkina and Mykhailo V. Vovk



5873

# Deploying solid-phase synthesis to access thymine-containing nucleoside analogs that inhibit DNA repair nuclease SNM1A

Christine A. Arbour, Ellen M. Fay, Joanna F. McGouran and Barbara Imperiali\*



## EXPRESSION OF CONCERN

5880

**Expression of concern: Total synthesis of tubulysin U and N<sup>14</sup>-desacetoxytubulysin H**

Bohua Long, Cheng Tao, Yinghong Li, Xiaobin Zeng,\* Meiqun Cao\* and Zhengzhi Wu\*

