

# Organic & Biomolecular Chemistry

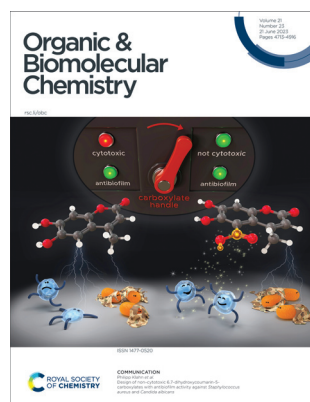
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### Cover

See Philipp Klahn et al.,  
pp. 4744–4749.

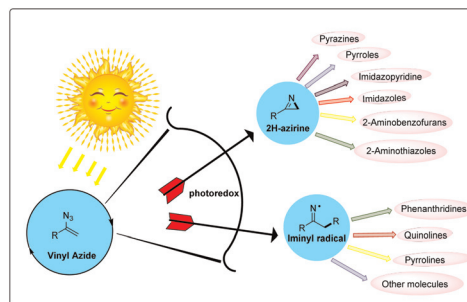
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*Org. Biomol. Chem.*, 2023,  
**21**, 4744.

## REVIEW

4723

### Visible light-assisted chemistry of vinyl azides and its applications in organic synthesis

Barakha Saxena, Roshan I. Patel, Jaya Tripathi and Anuj Sharma\*

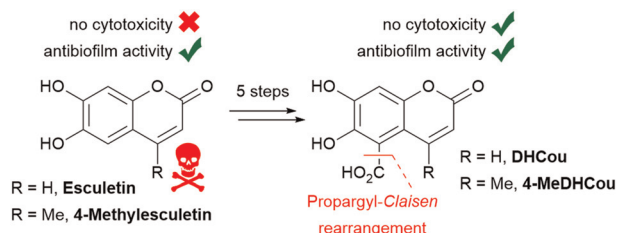


## COMMUNICATIONS

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### Design of non-cytotoxic 6,7-dihydroxycoumarin-5-carboxylates with antibiofilm activity against *Staphylococcus aureus* and *Candida albicans*

Robert Zscherp, Aishi Chakrabarti, Anna P. Lehmann, Hedda Schrey, Hoaxuan Zeng, Wera Collisi and Philipp Klahn\*



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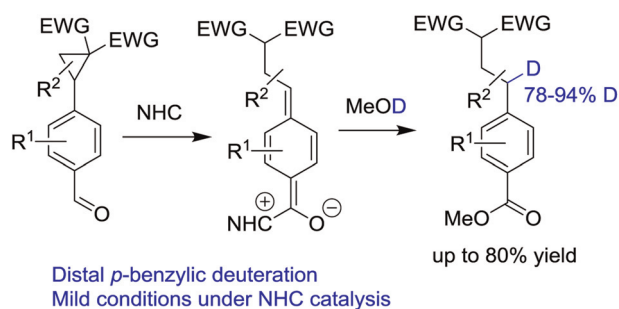


## COMMUNICATIONS

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**Distal *p*-benzylic deuteration via N-heterocyclic carbene catalyzed ring opening of *p*-cyclopropylbenzaldehydes**

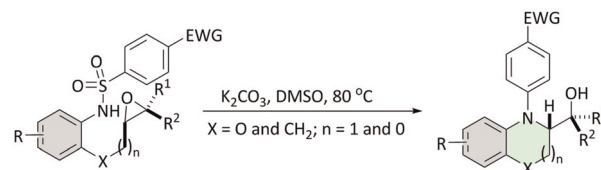
Ye Qiu, Lei Dai, Zhong-Hua Gao and Song Ye\*



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**An epoxide-opening cyclization/double Smiles rearrangement cascade approach to *N*-aryl-1,4-benzoxazines and *N*-arylindolines**

Jonali Das, Abhijit Gogoi, Biraj Jyoti Borah and Sajal Kumar Das\*

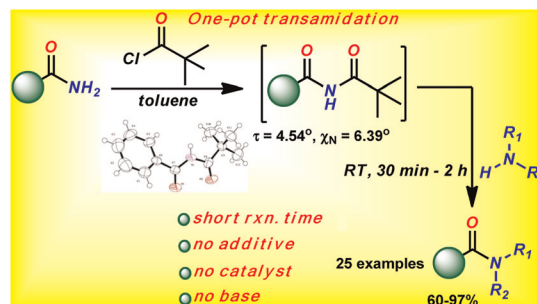


- favorable entropy factor
- transition-metal-free conditions
- broad substrate scope, regio- and diastereoselective
- a new entry to the synthesis *N*-aryl aza-heterocycles

4760

**Amidic resonance not a barrier for transamidation of *N*-pivaloyl activated amides: catalyst, base and additive free conditions**

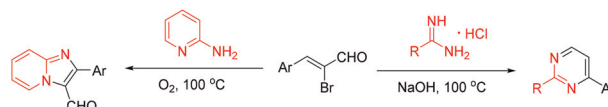
Ida Angel Priya Samuel Rajan and Saravanakumar Rajendran\*



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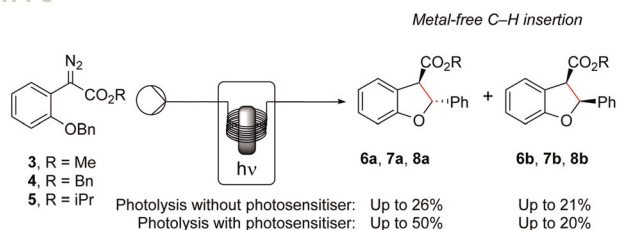
**Annulation of  $\alpha$ -bromocinnamaldehydes to access 3-formyl-imidazo[1,2-*a*]pyridines and pyrimidines under transition metal-free conditions**

Fanglian Zhang, Jiameng Liu, Wenjun Luo, Yuping Zhu, Yi Xiao, Shuxian Ma, Feixian Luo\* and Zhengwang Chen\*



## PAPERS

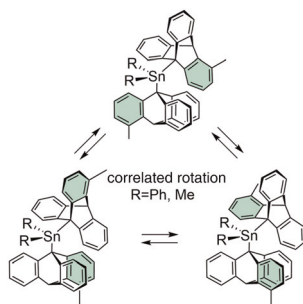
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### Flow photolysis of aryl diazoacetates leading to dihydrobenzofurans via intramolecular C–H insertion

Katie S. O'Callaghan, Denis Lynch, Marcus Baumann, Stuart G. Collins\* and Anita R. Maguire\*

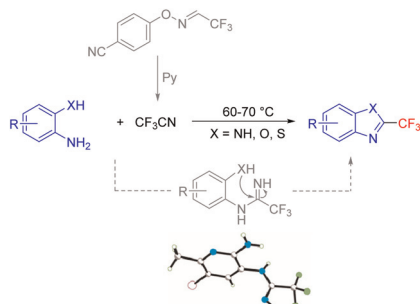
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### Synthesis and structure of stannane-based molecular bevel gears having substituents on a tin linker

Satoshi Hosono, Yusuke Inagaki and Wataru Setaka\*

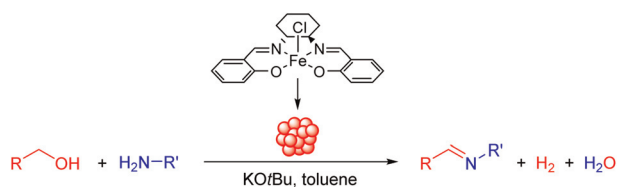
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### Synthesis of 2-trifluoromethyl benzimidazoles, benzoxazoles, and benzothiazoles via condensation of diamines or amino(thio)phenols with CF<sub>3</sub>CN

Bo Lin, Yunfei Yao, Minze Wu, Lu Qin, Shouxiong Chen, Yi You\* and Zhiqiang Weng\*

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### Development and mechanistic investigation of the dehydrogenation of alcohols with an iron(III) salen catalyst

Nicolai S. B. Hansen, Fabrizio Monda, Frederik Simonsen Bro, Xiyue Liu, Mårten S. G. Ahlquist and Robert Madsen\*

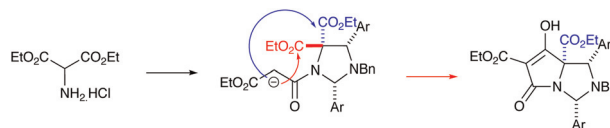


## PAPERS

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### Synthesis of fused tetramate-oxazolidine and -imidazolidine derivatives and their antibacterial activity

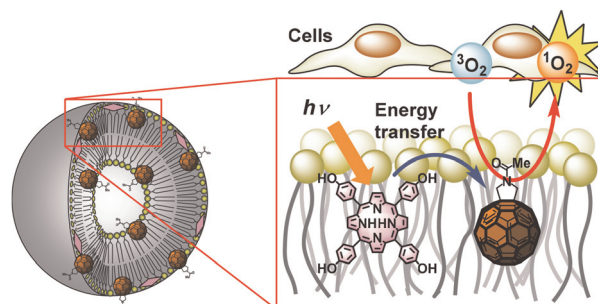
Liban Saney, Tharindi Panduwawala, Xiang Li, Kirsten E. Christensen, Miroslav Genov, Alexander Pretsch, Dagmar Pretsch and Mark G. Moloney\*



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### Improvement in photodynamic activity by a porphyrin–fullerene composite system in lipid membranes

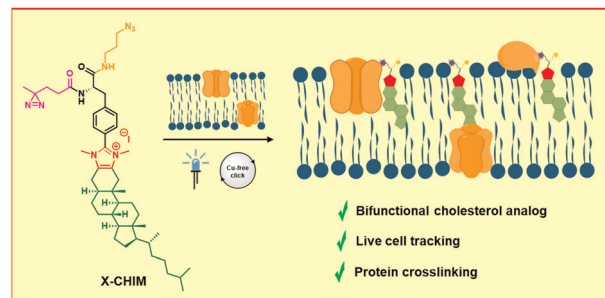
Kotaro Nishimura, Keita Yamana, Riku Kawasaki and Atsushi Ikeda\*



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### A bifunctional imidazolium-based cholesterol analog for the tracking of cellular cholesterol distributions and cholesterol–protein interactions

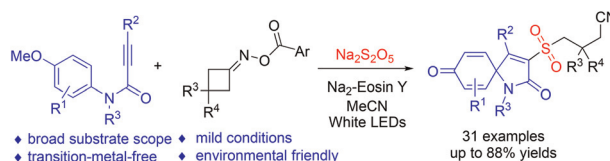
Tristan Wegner, Anna L. L. Matos, Karine Porte, Kira Mehring, Marco Pierau, Hendrik Horstmeier, Volker Gerke\* and Frank Glorius\*



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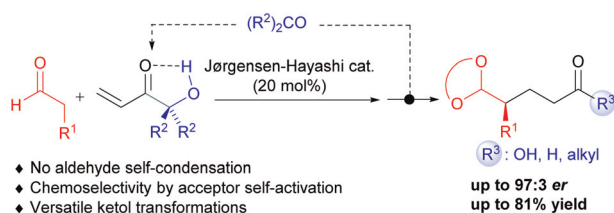
### Visible-light promoted cascade cyanoalkylsulfonylation/*ipso*-cyclization of *N*-arylpropiolamides toward sulfonated spiro[4,5]trienones *via* SO<sub>2</sub> insertion

Xiwen Shan, Yu Gao, Yaru Lu, Rong Huang, Tengpeng Sun, Kui Lu and Xia Zhao\*



## PAPERS

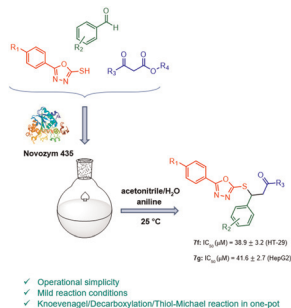
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### Development of an $\alpha'$ -hydroxy enone for the aminocatalytic asymmetric formal conjugate addition of aldehydes to acrylates, vinyl ketones and acrolein

José M. Odriozola, Jesús Razkin, Beñat Lorea, Antonia Mielgo, Jesús M. García,\* Mikel Oiarbide\* and Claudio Palomo\*

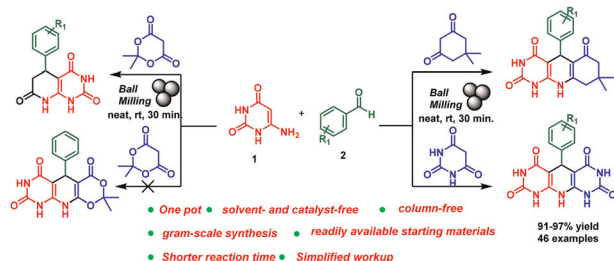
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### Biocatalytic synthesis of oxadiazole thioethers and evaluation of their antitumor activity

Negin Neissari, Mansour Shahedi, Zohreh Habibi,\* Maryam Yousefi, Arash Minai-Tehrani, Fatemeh Yazdi Samadi, Jesper Brask, Hossein Bavandi and Mehdi Mohammadi\*

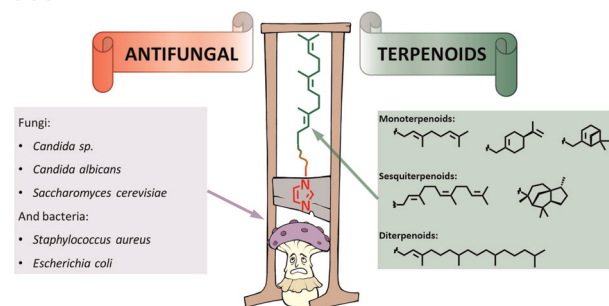
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### A green synthesis of pyrimido[4,5-*b*]quinolines and pyrido[2,3-*d*]pyrimidines via a mechanochemical approach

Himanshu Kumar Singh, Arsala Kamal, Suresh Kumar Maury, Ambuj Kumar Kushwaha, Vandana Srivastava and Sundaram Singh\*

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### Towards potential antifungal agents: synthesis, supramolecular self-assembly and *in vitro* activity of azole mono-, sesqui- and diterpenoids

Alan Akhmedov, Rustem Gamirov, Yulia Panina, Evgenia Sokolova, Yulia Leonteva, Evgeniya Tarasova, Ramziya Potekhina, Igor Fitsev, Dmitriy Shurpik and Ivan Stoikov\*

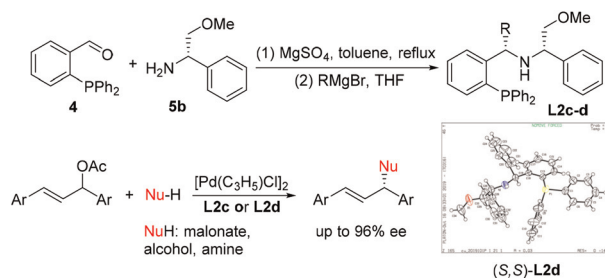


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New P,N<sub>sp3</sub> ligands for palladium-catalyzed asymmetric allylic substitutions

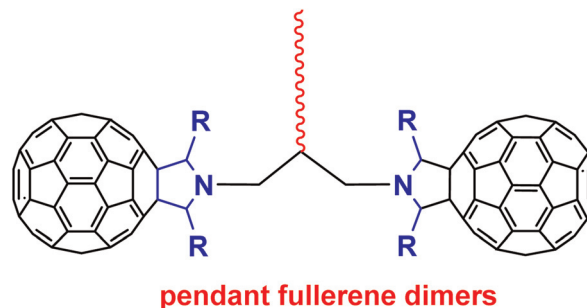
Qin Su, Chuan-Jin Hou,\* De-Quan Wei, Hao Qin, Ding-Hua Liang and Xiang-Ping Hu\*



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## Synthesis of pendant fullerene dimers by an aminomethylation reaction of fulleropyrrolidines bearing ketone moieties

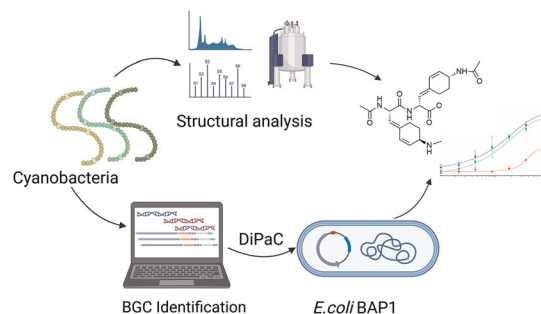
Qian-Na Peng, Hui-Juan Wang, Xing-Yu Wang, Fa-Bao Li,\* Li Liu, Xiaoli Wang, Ping Wu\* and Chao-Yang Liu\*



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## Direct pathway cloning and expression of the radiosumin biosynthetic gene cluster

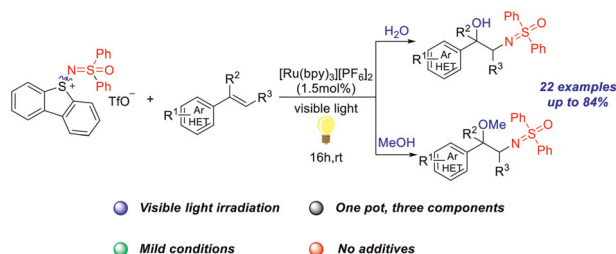
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Visible light-mediated three-component functionalization of olefins with sulfoxymidoylsulfonium salt for the synthesis of  $\beta$ -amino alcohols and amino ethers

Wei Xie, Liang Zhao, Xinmei Fu, Rong Zhang, Xinyu Hao, Chunying Duan and Yaming Li\*



## RETRACTION

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**Retraction: Direct Sb–S cross-coupling of halostibines with thiols and disulfides at room temperature**

Wei Li, Shan Li, Zixiu Wang, Chenfu Liu, Yifei Ye, Yujing Chen, Yuyan Xiong and Jian Lei

