

# Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

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### Cover

See Mattan Hurevich,  
Assaf Friedler *et al.*,  
pp. 6912–6923.

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2025, **23**, 6912.

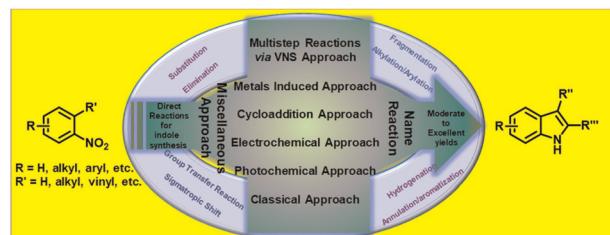
Artwork by Stefan Rüdiger,  
acrylic on canvas.

## REVIEW

6853

### A review on indole synthesis from nitroarenes: classical to modern approaches

Ajeet Chandra,\* Suresh C. Yadav, Subba Rao Cheekatla  
and Abhijeet Kumar

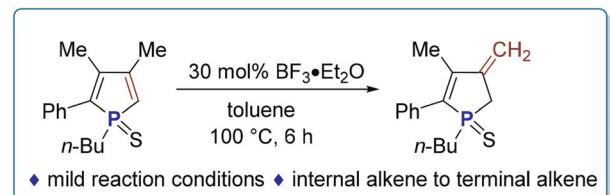


## COMMUNICATIONS

6888

### Access to 4-methylene-phospholenes through $\text{BF}_3\cdot\text{Et}_2\text{O}$ catalyzed isomerization of 3,4-dimethylphosphole sulfides

Meng Xiao, Yingqiang Wang, Lihui Chen\* and  
Rongqiang Tian\*



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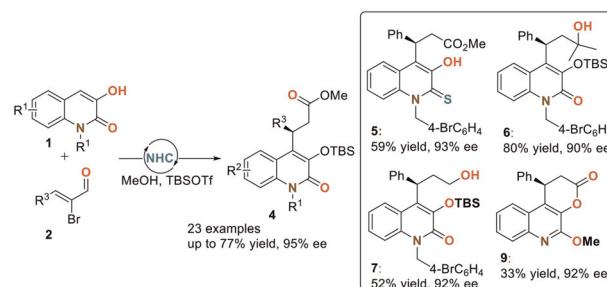
Registered charity number: 207890

## COMMUNICATIONS

6892

**Asymmetric [3 + 3] annulation of 3-hydroxyquinolin-2-ones via NHC organocatalysis**

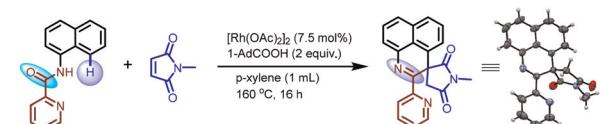
Heping Li, Weijun Yao and Zhen Wang\*



6897

**Synthesis of benzo[d,e]quinoline-spiro-succinimides via rhodium-catalyzed C–H activation/annulation of 1-naphthylamides with maleimides**

Raj Naresh Patel, Dharmik Mahendra Patel, Dinesh Gopichand Thakur, Nileshkumar B Rathod, Sachinkumar D. Patel, Mahesh A. Sonawane and Subhash Chandra Ghosh\*

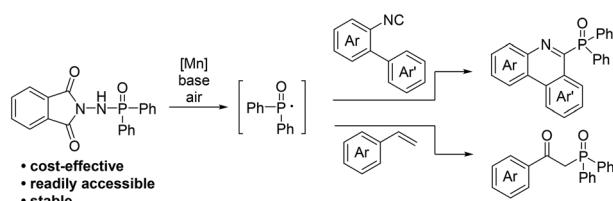


● benzo[d,e]quinoline-spiro-succinimide ● Identified intermediate ● Photoluminescence properties  
● first report on C–C spiroannulation ● Very good substrate scope ● KIE = 2.0, C–H activation is RDS

6903

**N-Phosphinoylaminophthalimide: a phosphinoyl radical precursor applied in phosphinoyl-substituted phenanthridine and ketone synthesis**

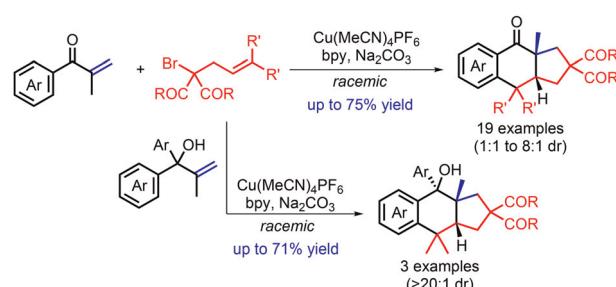
Zhiqiang Yang, Ziwei Li, Yunfangting Wei, Ze-Feng Xu\*, Mingming Yu and Chuan-Ying Li\*



6908

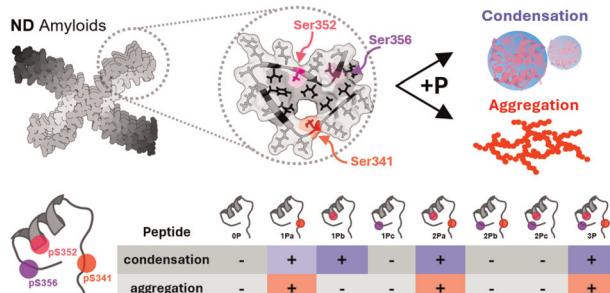
**Copper-catalyzed bi-cyclization of  $\alpha,\beta$ -unsaturated arylketones for accessing cyclopenta[b]tetralines**

Xia-Run Yao, Hao-Nan Shi, Rong Fu, Ke Chen,\* Wen-Huan Hao and Bo Jiang\*



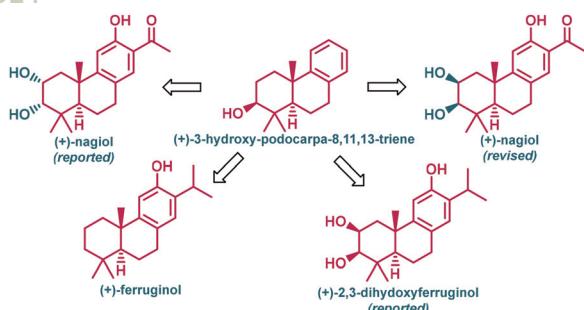
## PAPERS

6912

**Specific phosphorylation patterns control the interplay between aggregation and condensation of Tau-R4 peptides**

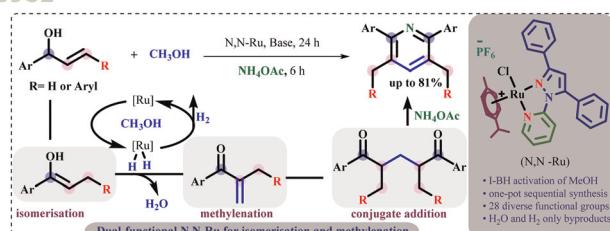
Shachar Guy Bressler, Dana Grunhaus, Amit Aviram, Stefan G. D. Rüdiger, Mattan Hurevich\* and Assaf Friedler\*

6924

**First stereoselective approach for structure revision of nagiol and syntheses of 2,3-dihydroxyferruginol and ferruginol**

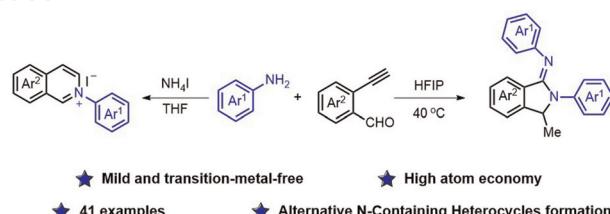
Sravya Surendran, Arathi Ramachandran and Rajendar Goreti\*

6931

**Ruthenium-catalysed isomerisation–methylenation of allyl alcohols with methanol: a one-pot synthesis of substituted pyridines**

Priyabrata Biswal, Sanu Siyad Pullarat, Shaikh Samser, Basava Punna Rao Aradhyula, Vadapalli Chandrasekhar\* and Krishnan Venkatasubbaiah\*

6938

**Mild and efficient construction of nitrogen-containing heterocycles from *ortho*-ethynylbenzaldehydes and anilines**

Juan Zhao, Hui-Min Qian, You Zi,\* Shun-Jun Ji\* and Xiao-Ping Xu\*



## PAPERS

6943

**Transition-metal-free  $K_2S_2O_8$ -promoted oxidative C–C triple bond cleavage and esterification leading to  $\alpha$ -ketoesters**

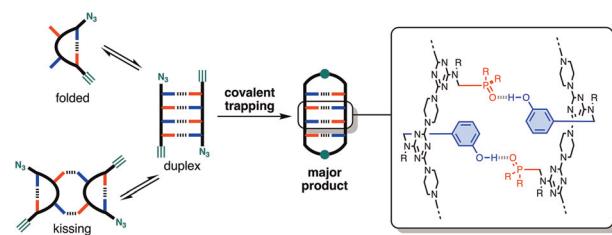
Jin-Xin Lan, Yu Shu, Yang Zhou, Liu-Yu Shen, Fei Meng and Wen-Chao Yang\*



6948

**Supramolecular assembly properties of a mixed-sequence recognition-encoded melamine oligomer**

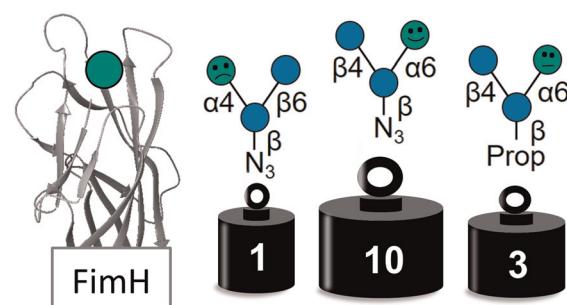
Mohit Dhiman, Joseph T. Smith and Christopher A. Hunter\*



6957

**Regioisomeric branched trisaccharides: a combined synthetic, biological, and computational approach to understand details of FimH-mediated bacterial adhesion**

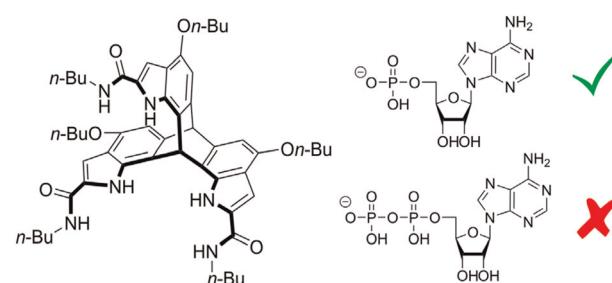
Ingo vom Sondern and Thisbe K. Lindhorst\*



6969

**Selective recognition and sensing of biologically important phosphates using triptycene-based anion receptors**

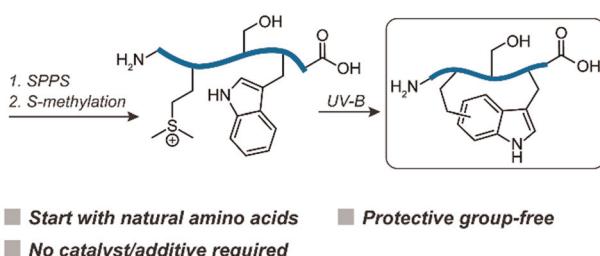
Ahmad F. Kassir, Daniel Lupp, Jakub Grabowski, Jarosław M. Granda\* and Janusz Jurczak\*



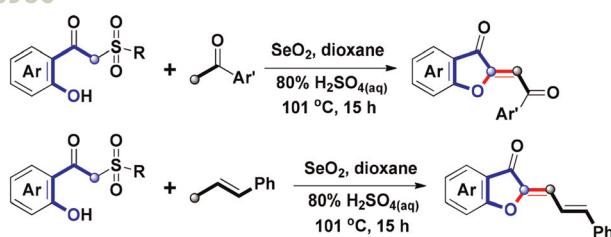
## PAPERS

6978

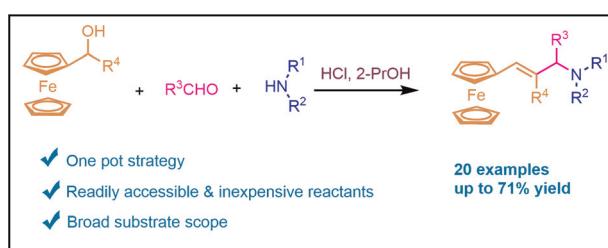
## Peptide cyclization achieved within 3 steps



6986



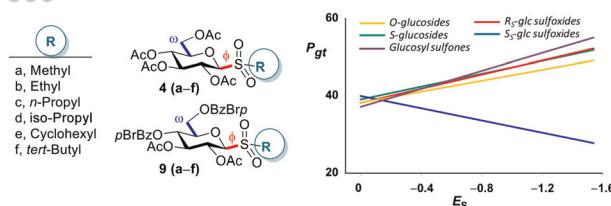
6992



## Peptide cyclization via late-stage functionalization of tryptophan by sulfonylum

Yusong Han, Jia Chen, Shan Feng and Mingxuan Wu\*

7000

One-pot synthesis of ferrocenyl-substituted allylamine derivatives by a three-component reaction of  $\alpha$ -(hydroxy) alkyl ferrocenes, aldehydes and secondary amines

Hao Yang, Jia-An Zheng, Hui Yuan, Meimei Zhang, Wei-Wei Zhang, Zi-Qiang Wang, Jia-Xin He, Yifan Ouyang, Yan-Ru Fan,\* Yu Huang\* and Qi-Peng Zhao\*

## Conformational properties of alkyl glucosyl sulfones in solution

Carlos A. Sanhueza, Rosa L. Dorta and Jesús T. Vázquez\*

