

Organic & Biomolecular Chemistry

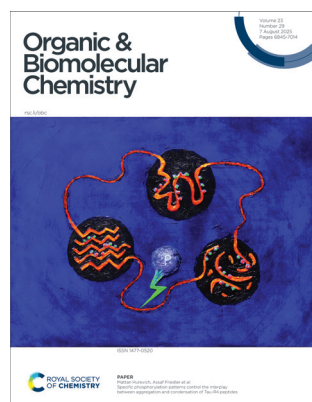
An international journal of synthetic, physical and biomolecular organic chemistry

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IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 23(29) 6845-7014 (2025)



Cover

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

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2025, **23**, 6912.

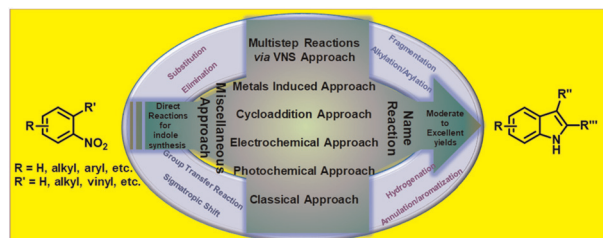
Artwork by Stefan Rüdiger,
acrylic on canvas.

REVIEW

6853

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

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

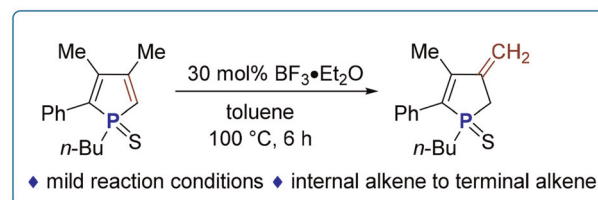


COMMUNICATIONS

6888

Access to 4-methylene-phospholenes through BF₃·Et₂O catalyzed isomerization of 3,4-dimethylphosphole sulfides

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



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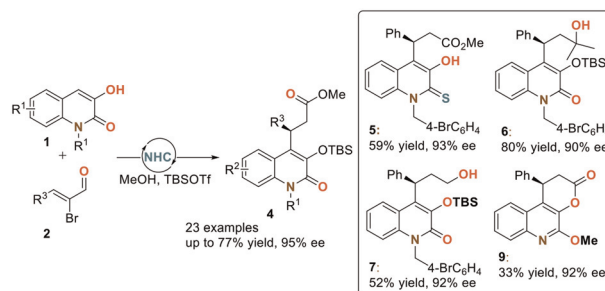
Fundamental questions
Elemental answers

COMMUNICATIONS

6892

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

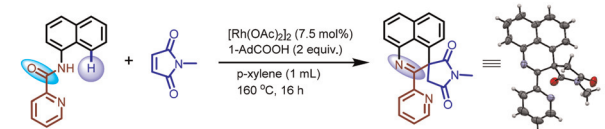
Heping Li, Weijun Yao and Zhen Wang*



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*

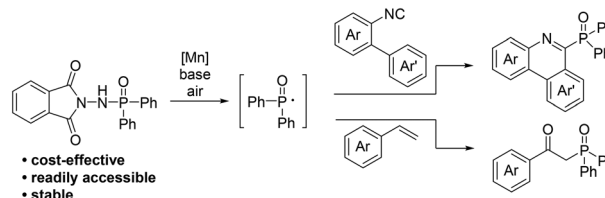


- benzo[d,e]quinoline-spiro-succinimide
- Identified intermediate
- Photoluminescence properties
- first report on C-C spiroannulation
- Very good substrate scope
- KIE = 2.0, C-H activation is RDS

6903

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

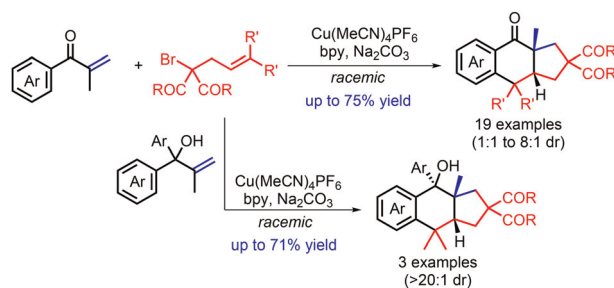
Zhiqiang Yang, Ziwei Li, Yunfangting Wei, Ze-Feng Xu,* Mingming Yu and Chuan-Ying Li*



6908

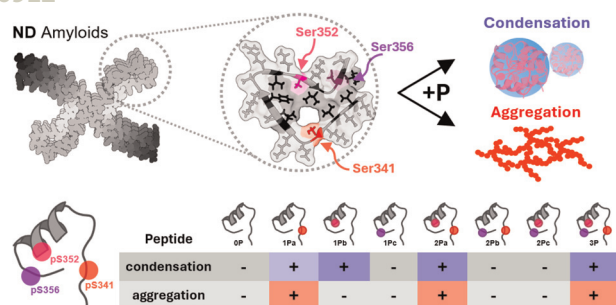
Copper-catalyzed bi-cyclization of α,β -unsaturated arylketones for accessing cyclopenta[b]tetralines

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



PAPERS

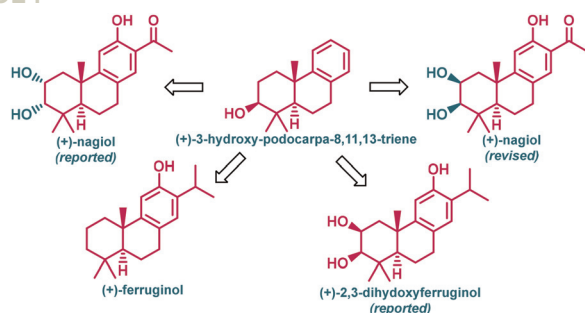
6912



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*

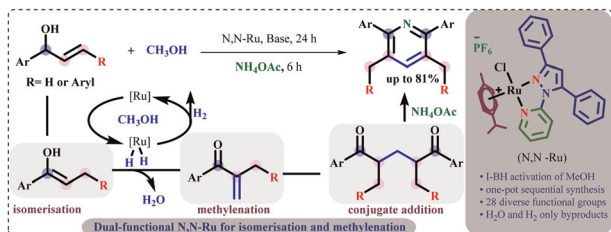
6924



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

Sravya Surendran, Arathi Ramachandran and Rajendar Goreti*

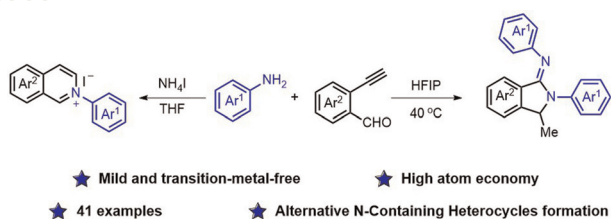
6931



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*

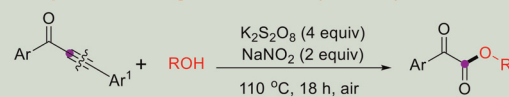


6943

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

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

C–C triple bond cleavage and oxidation (this work):

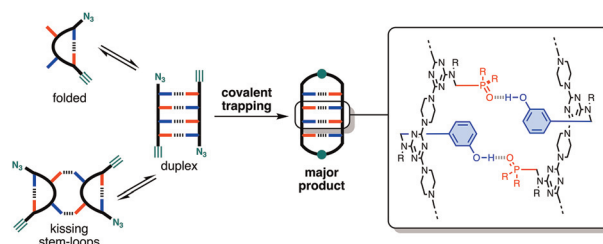


- photocatalyst- & transition metal-free
- broad scope (27 examples)
- C–C triple bond cleavage and oxidation

6948

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

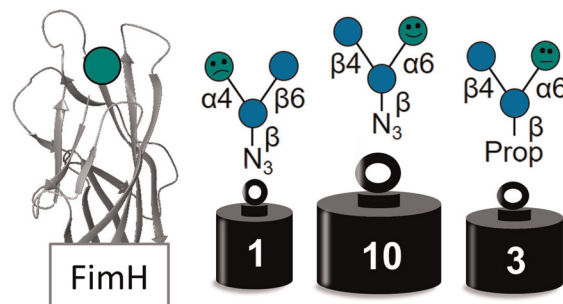
Mohit Dhiman, Joseph T. Smith and Christopher A. Hunter*



6957

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

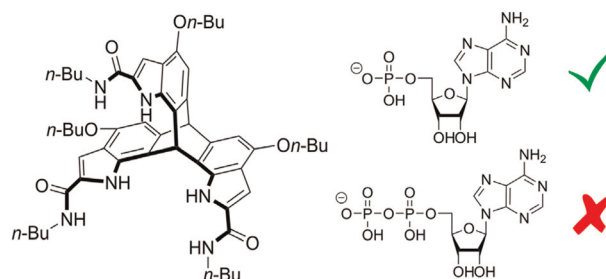
Ingo vom Sondern and Thisbe K. Lindhorst*



6969

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

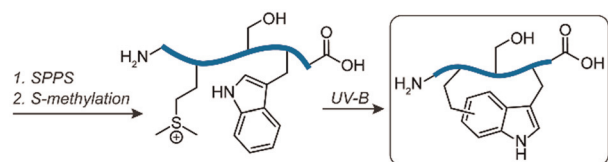
Ahmad F. Kassir, Daniel Lupp, Jakub Grabowski, Jarosław M. Granda* and Janusz Jurczak*



PAPERS

6978

Peptide cyclization achieved within 3 steps

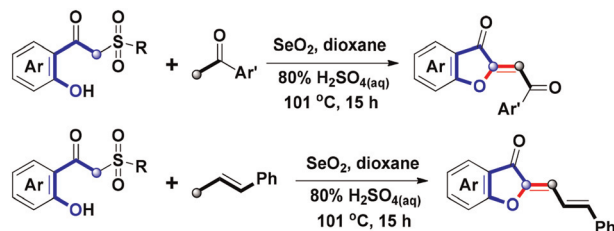


- Start with natural amino acids
- Protective group-free
- No catalyst/additive required

Peptide cyclization via late-stage functionalization of tryptophan by sulfonium

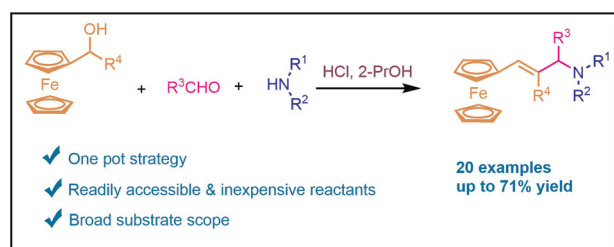
Yusong Han, Jia Chen, Shan Feng and Mingxuan Wu*

6986

Selenium dioxide-mediated oxidative annulation of sulfonyl *o*-hydroxyacetophenones with acetophenones. One-pot synthesis of aurone analogs

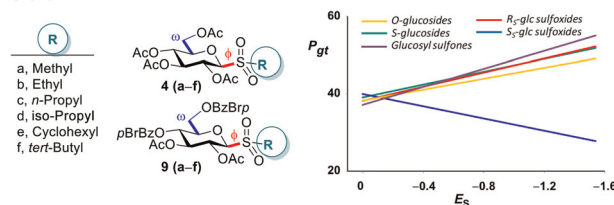
Meng-Yang Chang* and Yu-Hsuan Liu

6992

One-pot synthesis of ferrocenyl-substituted allylamine derivatives by a three-component reaction of α -(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*

7000



Conformational properties of alkyl glucosyl sulfones in solution

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

