

Organic & Biomolecular Chemistry

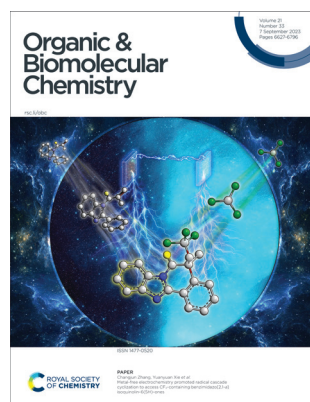
An international journal of synthetic, physical and biomolecular organic chemistry

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Yuanyuan Xie *et al.*,
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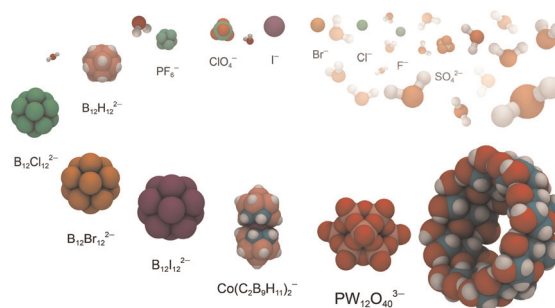
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REVIEWS

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Large anion binding in water

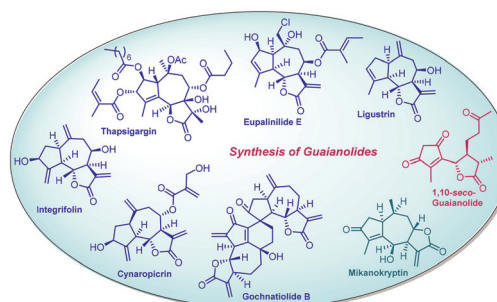
Khaleel I. Assaf* and Werner M. Nau*



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Recent advances in the syntheses of guaianolides

Rodney A. Fernandes,* Sanjita Moharana and
Gulenur Nesha Khatun



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Organic & Biomolecular Chemistry (electronic: ISSN 1477-0539) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK

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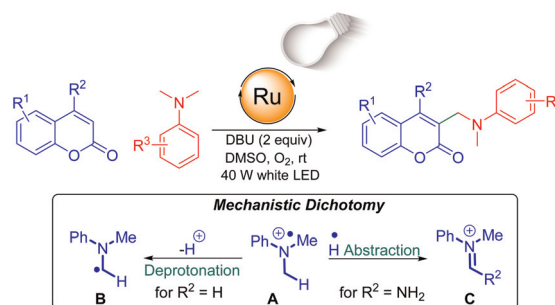


COMMUNICATIONS

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Visible-light mediated, oxygen-promoted regioselective cross-dehydrogenative coupling of coumarins and dimethylanilines

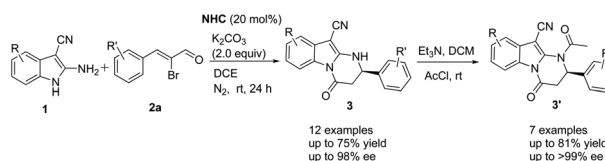
Tavinder Singh, Ganesh Chandra Upreti, Shivani Arora, Himanshu Chauhan and Anand Singh*



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N-Heterocyclic carbene-catalyzed enantioselective annulation of 2-amino-1H-indoles and bromoenals for the synthesis of chiral 2-aryl-2,3-dihydropyrimido [1,2-a]indol-4 (1H)-ones

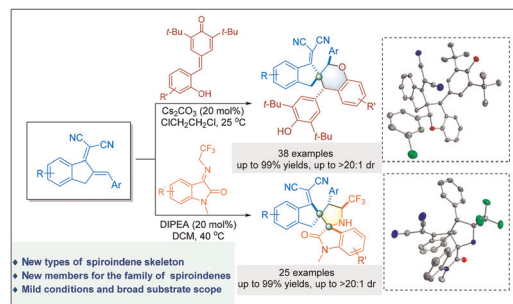
Jianbo Zhao, Min Wu, Jiamin Luo, Lei Shi and Hao Li*



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Regio- and diastereoselective synthesis of diverse spirocyclic indenenes by cyclization with indene-dienes as two carbon building blocks

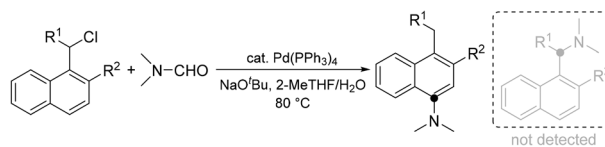
Yi-Hang Deng, Wen-Li Xu, Lei Wang, Cheng-Yang Tang, Ji-Ya Fu* and Chuan-Bao Zhang*



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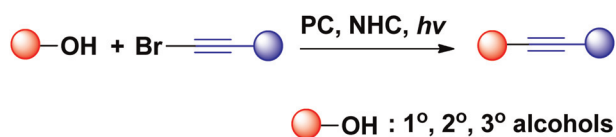
Palladium-catalyzed C–H dimethylamination of 1-chloromethyl naphthalenes with N,N-dimethylformamide as the dimethyl amino source

Sheng Zhang,* Ziyang Wang, Ya Gao, Masahiko Yamaguchi and Ming Bao*



COMMUNICATIONS

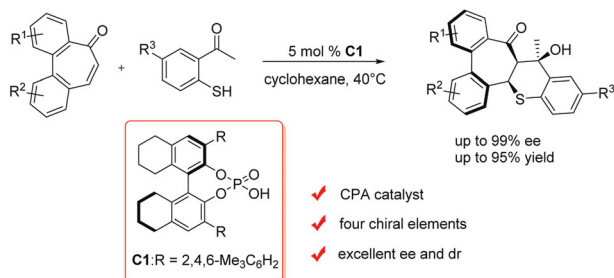
6693



NHC-mediated photocatalytic deoxygenation of alcohols for the synthesis of internal alkynes via a Csp^3 – Csp coupling reaction

Xueji Ma,* Lijie Wang, Xiaoqing Meng, Wenbo Li, Qin Wang, Yuke Gu and Lingna Qiu

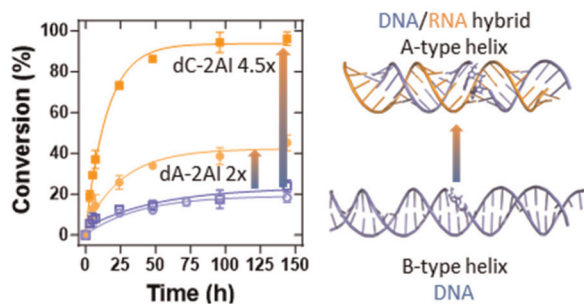
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CPA-catalyzed asymmetric domino thia-Michael/aldol reactions for simultaneous chiral center and axial chirality formation

Xilong Wang, Yu Luo, Jiaji Zhao* and Shuang Luo*

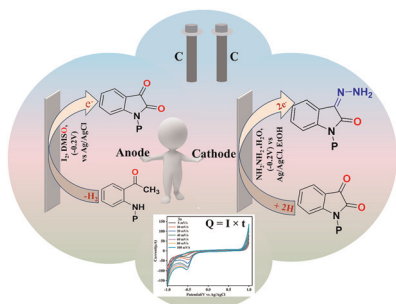
6702



Role of helicity in the nonenzymatic template-directed primer extension of DNA

Sung Joon Park, Kimberley Laura Callaghan and Amanda Vera Ellis*

6707



Electro-organic synthesis of isatins and hydrazones through C–N cross-coupling and $C(sp^2)$ –H/ $C(sp^3)$ –H functionalization

Neetu Verma, Rajdeep Tyagi, Ashish Khanna, Manisha Malviya* and Ram Sagar*

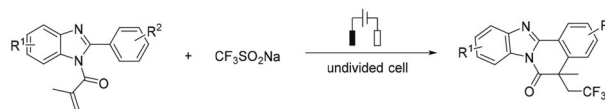


PAPERS

6715

Metal-free electrochemistry promoted radical cascade cyclization to access CF₃-containing benzimidazo[2,1-a]isoquinolin-6(5H)-ones

Changjun Zhang,* Zhichen Yu, Yuxin Ding, Yuan Shi and Yuanyuan Xie*

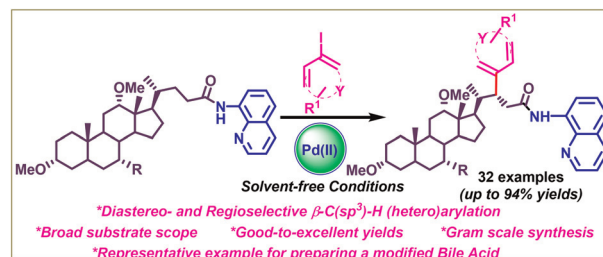


- Simple and mild conditions
- Cascade process
- Broad substrate scope
- High atom economy

6719

Synthesis of modified bile acids *via* palladium-catalyzed C(sp³)-H (hetero)arylation

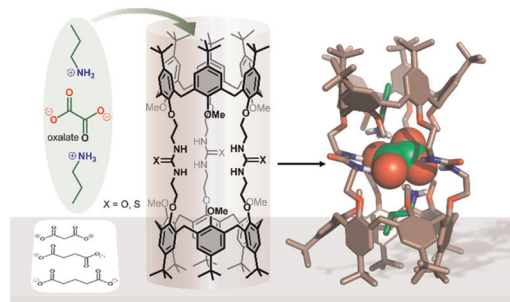
Somnath Arjun Borade, Sushma Naharwal, Himanshi Bhambri, Sanjay K. Mandal, Kiran Bajaj, Deepak Chitkara and Rajeev Sakhuja*



6730

Selective binding of oxalate by a tris-ureido calix[6] tube in a protic environment

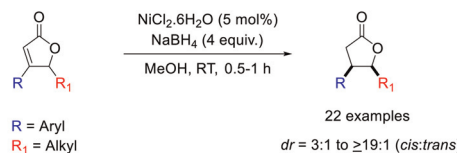
Roy Lavendomme, Steven Moerkerke, Gaëlle Mariaule and Ivan Jabin*



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Expeditious access to *cis*- β -aryl, γ -alkyl disubstituted (\pm)- γ -butyrolactones *via* nickel-hydride catalysis

O. Stephen Ojo,* Hannah J. Steel and Haralampos N. Miras

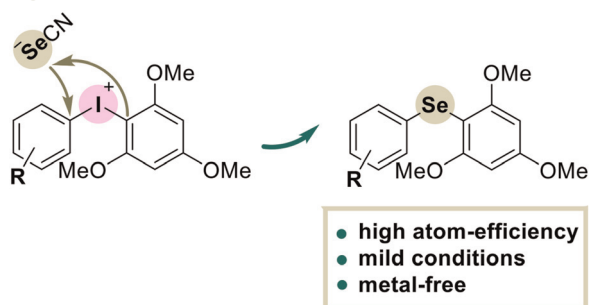


- ✓ Economical and practical
- ✓ Easy and quick access to disubstituted γ -butyrolactones
- ✓ *cis*-product selective
- ✓ *in-situ* generated Nickel-hydride



PAPERS

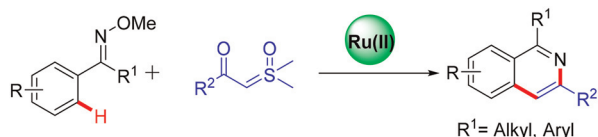
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Metal-free and atom-efficient protocol for diarylation of selenocyanate by diaryliodonium salts

Amirbek D. Radzhabov, Natalia S. Soldatova,*
 Daniil M. Ivanov, Mekhman S. Yusubov,
 Vadim Yu. Kukushkin and Pavel S. Postnikov*

6750

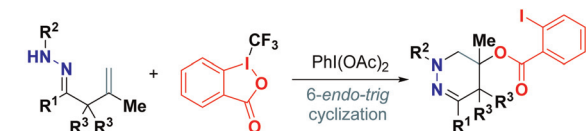


- ✓ Inexpensive Ru catalyst
- ✓ No external oxidant
- ✓ Good functional group tolerance
- ✓ Broad range of substrates

Ru-catalyzed C–H activation/cyclization of oximes with sulfoxonium ylides to access isoquinolines

Darun Yang, Hongyan Xu, Xuejun Zhang, Yuntao Hu,
 Decai Huang and Huaqing Zhao*

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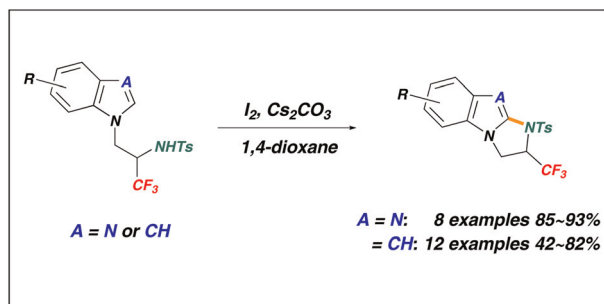


- Mild reaction conditions
- Wide substrate scope
- Form C–N and C–O bands
- 26 examples, up to 75% yield

PhI(OAc)₂-mediated aminoacyloxylation of β,γ-unsaturated hydrazones using Togni reagent II as an acyloxyl precursor

Dong-Fang Jiang,* Zhenjie Qi, Dengfeng Li,
 Si-Miaomiao Wen, Zhao Liu, Wen-Juan Hao and
 Bo Jiang*

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Iodine-promoted synthesis of CF₃-substituted dihydroimidazobenzimidazole and CF₃-dihydroimidazoindole via C–N bond formation

Daiki Komatsu, Kasumi Yamada and Takeshi Hanamoto*



PAPERS

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Visible light-induced radical cascade acylmethylation/cyclization of 2-(allyloxy) arylaldehydes with α -bromo ketones: access to cyclic 1,5-dicarbonyl-containing chroman-4-one skeletons

Xiao-Hong Huang, Feng-Lin Liu, Ting-Feng Fu, Xiao Hu, Ya-Yu Wang, Bo Liu, Ming-Yu Teng and Guo-Li Huang*

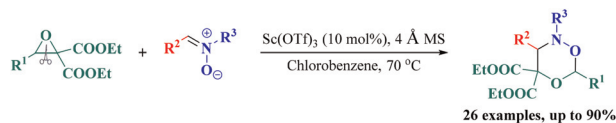


- ✓ Visible light organophotocatalysis
- ✓ High functional-group tolerance
- ✓ Broad substrate scope
- ✓ Metal- and oxidant-free
- ✓ Large-scale synthesis
- ✓ Mild reaction conditions

6778

Cycloaddition of *N*-arylnitrones with donor-acceptor oxiranes via C–C bond cleavage to construct 1,5,2-dioxazinanes

Wenhui Li, Jianying Lin, Shuangping Huang, Qiang Liu, Wenlong Wei and Xing Li*

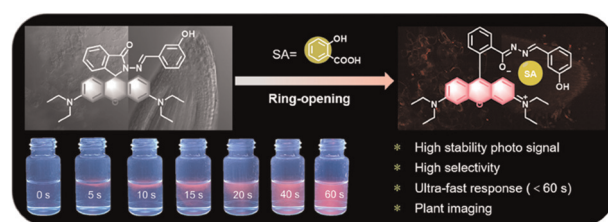


- ♣ Selective cleavage of C–C bond
- ♣ Mild reaction conditions
- ♣ Wide substrate scope
- ♣ High atom economy

6783

Rhodamine-based fluorescent sensors for the rapid and selective off–on detection of salicylic acid and their use in plant cell imaging

Jie-Ying Chen, Ping Yang, Hou-Yun Huang, A-Ling Tang, Mei-Hong Ge, Wei Niu, Shi-Tao Liu, Shuai Tan, Wen-Jing Ma, Xiang Zhou,* Li-Wei Liu and Song Yang*



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A *cis*- β -iron(III) SALPN catalyst for hydrogen atom transfer reductions and olefin cross couplings

Michael Ricca, Shaolei Yao, Tommy Le, Jonathan M. White, Paul S. Donnelly and Mark A. Rizzacasa*

