

Organic & Biomolecular Chemistry

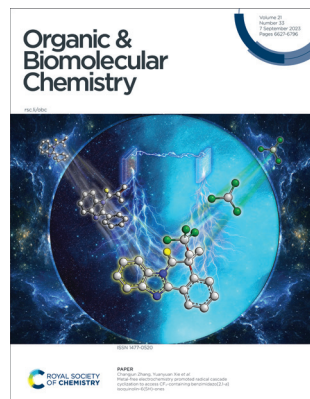
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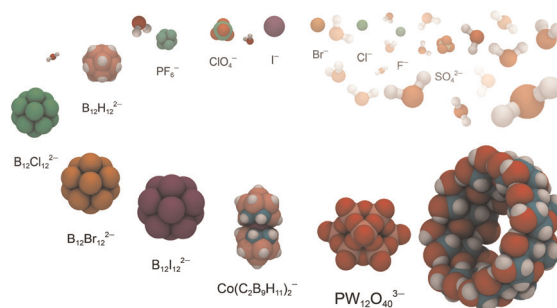
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Large anion binding in water

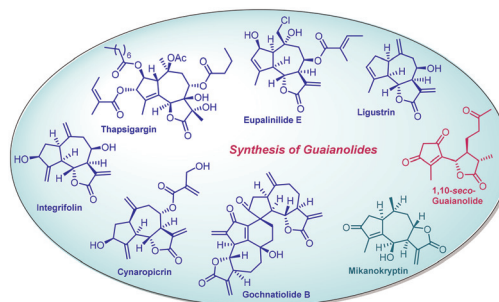
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Recent advances in the syntheses of guaianolides

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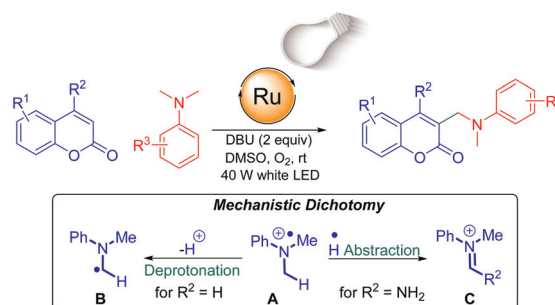


COMMUNICATIONS

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

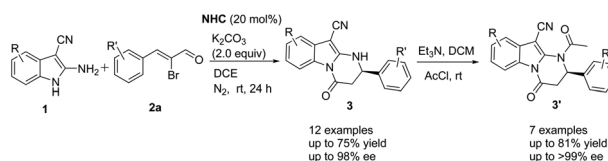
Tavinder Singh, Ganesh Chandra Upreti, Shivani Arora, Himanshu Chauhan and Anand Singh*



6675

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

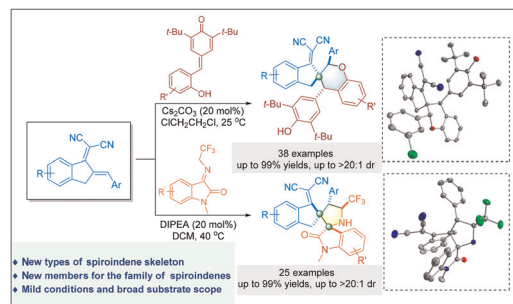
Jianbo Zhao, Min Wu, Jiamin Luo, Lei Shi and Hao Li*



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

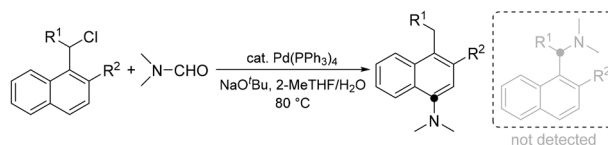
Yi-Hang Deng, Wen-Li Xu, Lei Wang, Cheng-Yang Tang, Ji-Ya Fu* and Chuan-Bao Zhang*



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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*

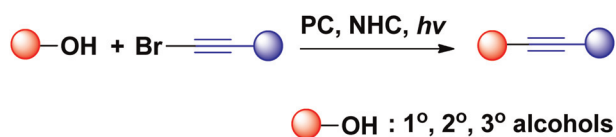


Remote C-H dimethylamination of 1-chloromethylnaphthalenes with DMF



COMMUNICATIONS

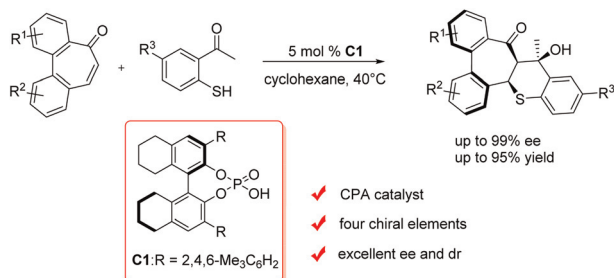
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NHC-mediated photocatalytic deoxygenation of alcohols for the synthesis of internal alkynes via a Csp³–Csp coupling reaction

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

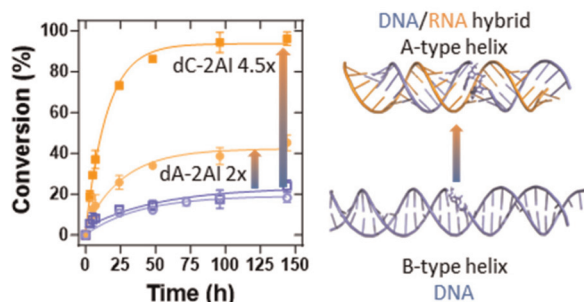
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CPA-catalyzed asymmetric domino thia-Michael/aldol reactions for simultaneous chiral center and axial chirality formation

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

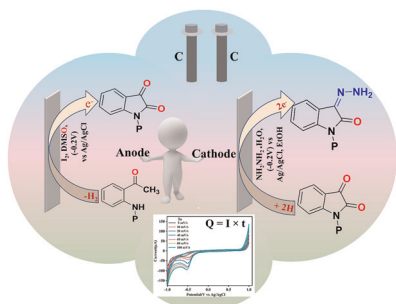
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Role of helicity in the nonenzymatic template-directed primer extension of DNA

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

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Electro-organic synthesis of isatins and hydrazones through C–N cross-coupling and C(sp²)–H/C(sp³)–H functionalization

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

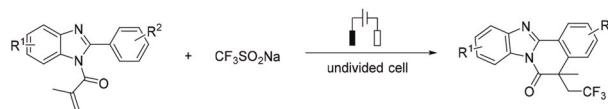


PAPERS

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

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

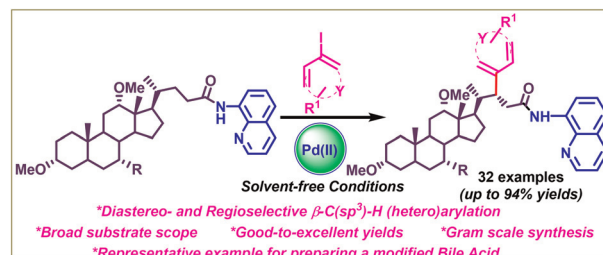


- Simple and mild conditions
- Cascade process
- Broad substrate scope
- High atom economy

6719

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

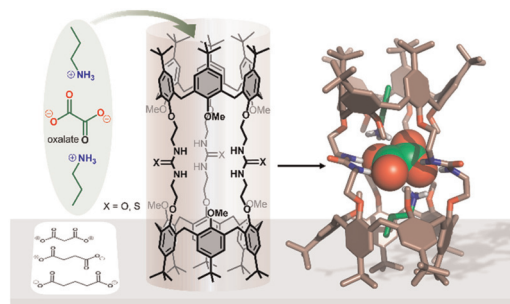
Somnath Arjun Borade, Sushma Naharwal, Himanshi Bhambri, Sanjay K. Mandal, Kiran Bajaj, Deepak Chitkara and Rajeev Sakhuja*



6730

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

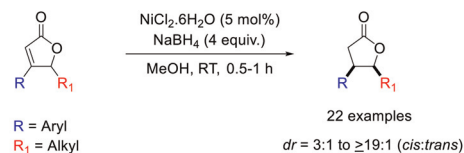
Roy Lavendomme, Steven Moerkerke, Gaëlle Mariaule and Ivan Jabin*



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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

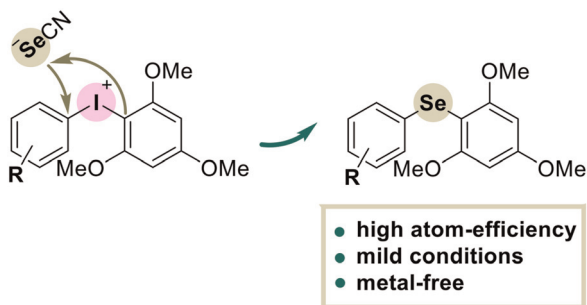


- ✓ Economical and practical
- ✓ Easy and quick access to disubstituted γ -butyrolactones
- ✓ *cis*-product selective
- ✓ *in-situ* generated Nickel-hydride



PAPERS

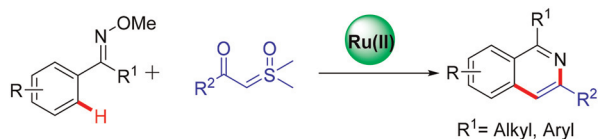
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Metal-free and atom-efficient protocol for diarylation of selenocyanate by diaryliodonium salts

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

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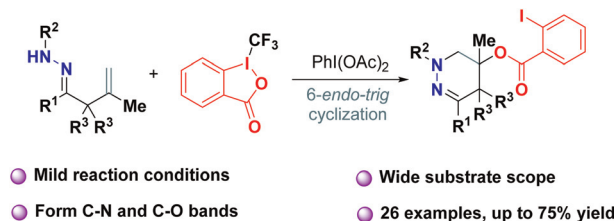


- ✓ Inexpensive Ru catalyst
- ✓ No external oxidant
- ✓ Good functional group tolerance
- ✓ Broad range of substrates

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*

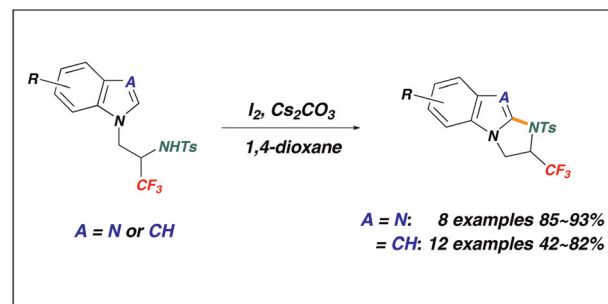
6757



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*

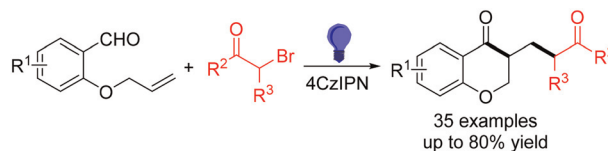


PAPERS

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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*

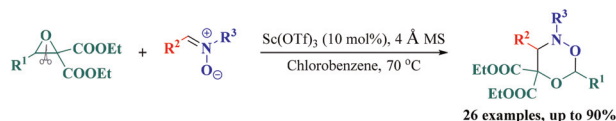


- ✓ Visible light organophotocatalysis
- ✓ High functional-group tolerance
- ✓ Broad substrate scope
- ✓ Metal- and oxidant-free
- ✓ Large-scale synthesis
- ✓ Mild reaction conditions

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*

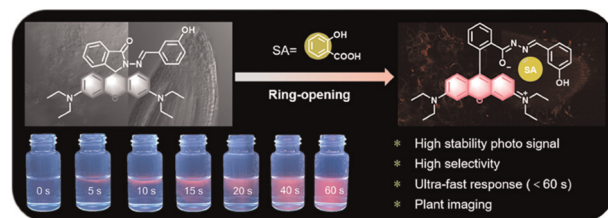


- ♣ Selective cleavage of C–C bond
- ♣ Wide substrate scope
- ♣ Mild reaction conditions
- ♣ High atom economy

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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*

