

Organic & Biomolecular Chemistry

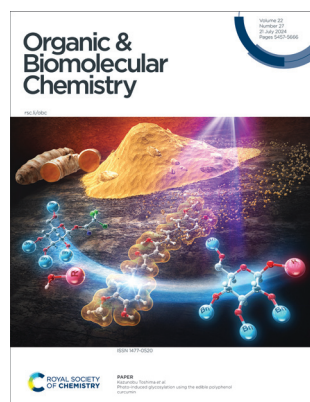
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Kazunobu Toshima *et al.*,
pp. 5546–5551.

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22, 5546.

EDITORIAL

5466

Professor (Dr) Sukh Dev: an iconic scientist with an innate sixth sense who radicalized natural product synthesis & organic chemistry

Harry Kochat,* J. S. Yadav, Vinod K. Singh and
S. S. V. Ramasastry

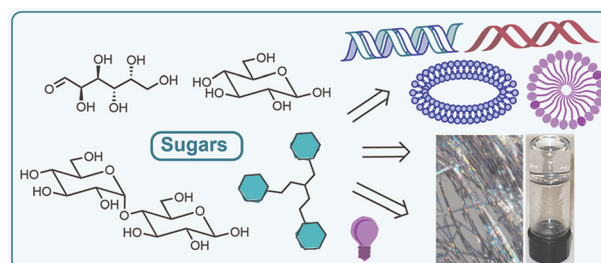


REVIEWS

5470

Synthetic approaches of carbohydrate based self-assembling systems

Guijun Wang,* Anji Chen, Pramod Aryal and
Jonathan Bietsch



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both natural and synthetic

Interdisciplinary and open access

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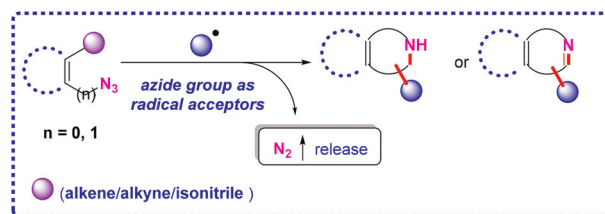
Fundamental questions
Elemental answers

REVIEWS

5511

Recent advances in the radical cascade reaction for constructing nitrogen heterocycles using azides as radical acceptors

Dong Xia,* Yun Shi, Liying Jiang, Yang Li and Jianfei Kong

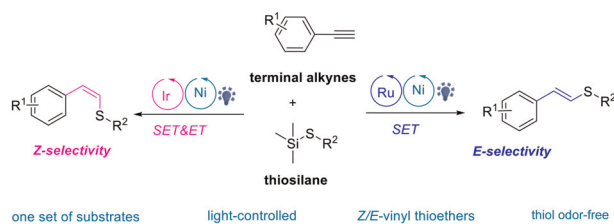


COMMUNICATIONS

5524

Visible light driven photoredox/nickel-catalyzed stereoselective synthesis of *Z*- or *E*-vinyl thioethers from thiosilane and terminal alkynes

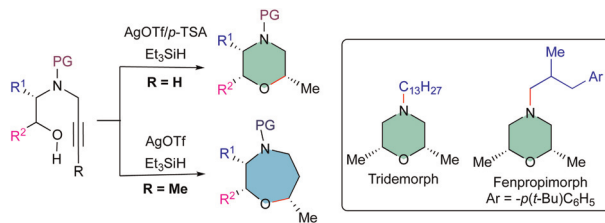
Hongqiang Liu,* Wenjing Li, Xia Xu, Meiding Yang,* Deman Han* and Xiujuan Yang*



5529

Deciphering substitution effects on reductive hydroalkoxylation of alkynyl aminols for stereoselective synthesis of morpholines and 1,4-oxazepanes: total synthesis of tridemorph and fenpropimorph

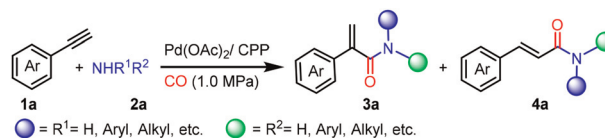
Santosh J. Gharpure,* Deepika Kalita, Shipra Somani and Juhi Pal



5534

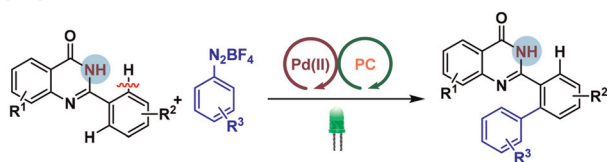
Highly selective and additive-free Pd(OAc)₂/CPP catalyzed hydroaminocarbonylation of alkynes

Chenghui Dai, Yan Chen, Jiaqi Xu, Xueli Zheng, Hua Chen, Haiyan Fu* and Ruixiang Li*



COMMUNICATIONS

5540



- Inherent directing group
- Chemo & regioselective
- Room temperature
- No additives & external oxidant
- C-H monoarylation only
- Post-modification using free N-H

Green light-mediated dual eosin Y/Pd^{II}-catalyzed C(sp²)-H arylation of N-H unprotected 2-arylquinazolones

Shuvam Mondal and Ranjan Jana*

PAPERS

5546

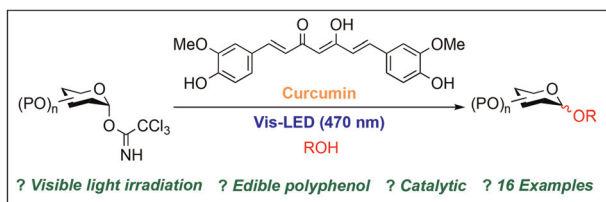
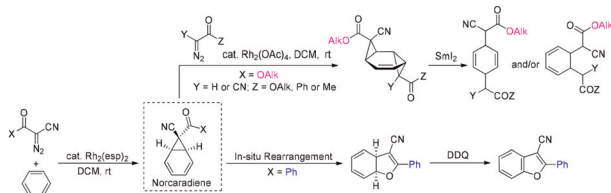


Photo-induced glycosylation using the edible polyphenol curcumin

Satomi Goi, Hidenari Shigeta, Daisuke Takahashi and Kazunobu Toshima*

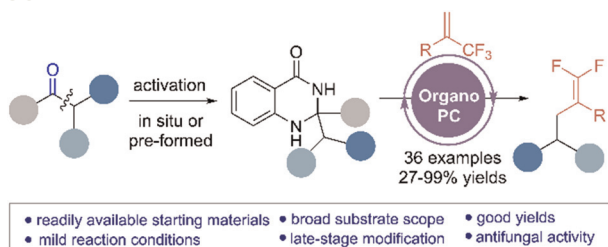
5552



Access to cyclohexadiene and benzofuran derivatives via catalytic arene cyclopropanation of α -cyanodiazocarbonyl compounds

Mei-Lin Chen, Chi-wen Chou, Jia-Liang Zhu* and Ming-Hsuan Tsai

5561



Organo-photoredox catalyzed gem-difluoroallylation of ketone-derived dihydroquinazolones via C(sp³)-C bond and C(sp³)-F bond cleavage

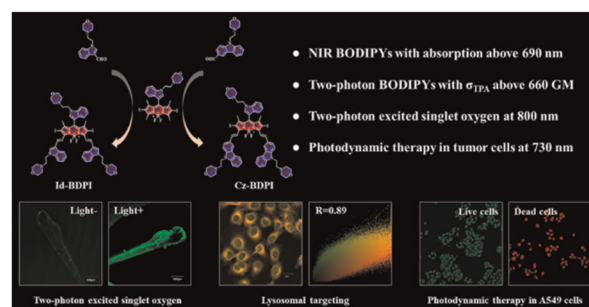
Yue Zhang, Tianshuai Zhu, Yuqian Lin, Xian Wei, Xinyu Xie, Ruofan Lin, Zhijie Zhang, Weiwei Fang, Jing-Jing Zhang,* Yue Zhang,* Meng-Yang Hu, Lingchao Cai* and Zhen Chen*



5569

Near-infrared BODIPY photosensitizers for two-photon excited singlet oxygen generation and tumor cell photodynamic therapy

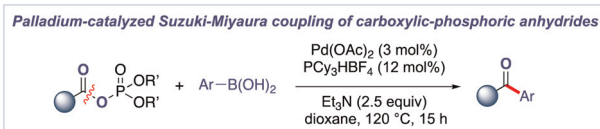
Ruibo Liu and Ying Qian*



5578

Palladium-catalyzed Suzuki–Miyaura cross-coupling of carboxylic–phosphoric anhydrides via C–O bond cleavage

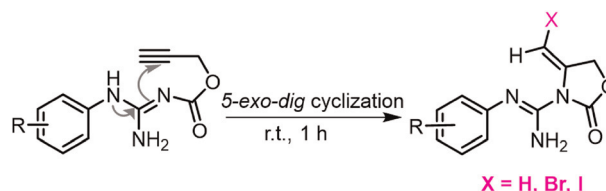
Haiyao Ji, Yilin Ma, Jianwen Zhang, Feifei Xing* and Chengwei Liu*



5585

Regioselective 5-*exo-dig* (halo)cyclization of *N*-propargyloxycarbonyl guanidine derivatives under mild conditions

Bohong Lin, Yaoping Ruan, Qi Hou, Zhijun Yuan, Yunshi Liang and Jing Zhang*

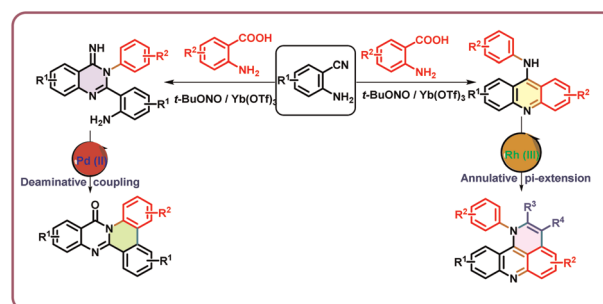


- Highly regioselective
- Mild reaction condition
- High yield
- Fast reaction rate

5591

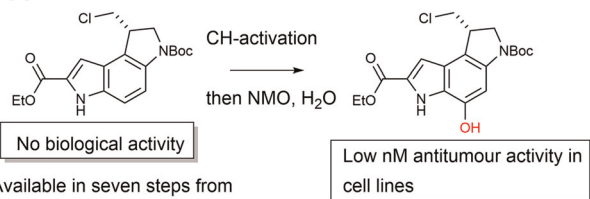
Harnessing the benzyne insertion consequence to enable π -extended pyrido-acridine and quinazolino-phenanthridine

Swarnali Ghosh, Dwaipayan Das,* Rahul Dev Mandal and Asish R. Das*



PAPERS

5603

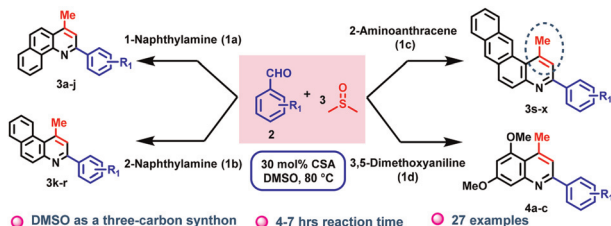


Available in seven steps from commercially available starting material

Borylation via iridium catalysed C–H activation: a new concise route to duocarmycin derivatives

Marco M. D. Cominetti, Zoë R. Goddard, Bethany R. Hood, Andrew M. Beekman, Maria A. O'Connell and Mark Searcey*

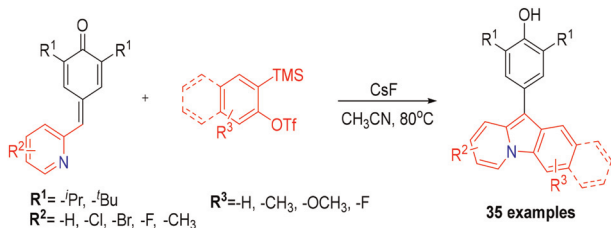
5608



Utilization of DMSO as a solvent-cum-reactant: synthesis of fused 2-aryl-4-methylquinolines

Sabina Yashmin, Karthik A. M. and Abu Taleb Khan*

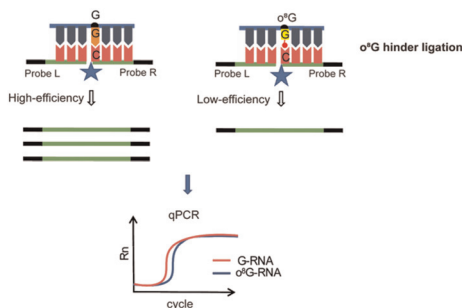
5618



One-pot formal [3 + 2] annulation of 2-pyridinyl-substituted *p*-quinone methides and arynes for the synthesis of 3-aryl pyrido[1,2-*a*]indoles

Mengfan Li, Yan Chen, Hao Tang, Wen Cheng, Benren Liao,* Qingwei Wang* and Weiyin Yi*

5629



Accurate identification of 8-oxoguanine in RNA with single-nucleotide resolution using ligase-dependent qPCR

Xidong Ye, Zengguang Li, Shangde Ye, Xinqi Liang, Chenyu Bao, Mingyang He, Hailan Wang, Laixin Xia* and Xin Cao*

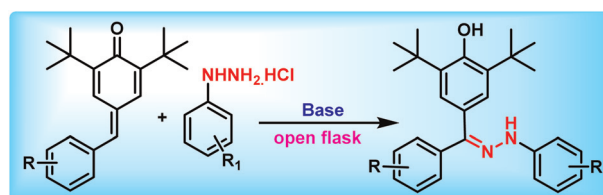


PAPERS

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1,6-Conjugate addition of *in situ* generated aryldiazenes to *p*-quinone methides

Ajay G. Mamale, Sayantan Paul, Rajesh G. Gonnade and Asish K. Bhattacharya*

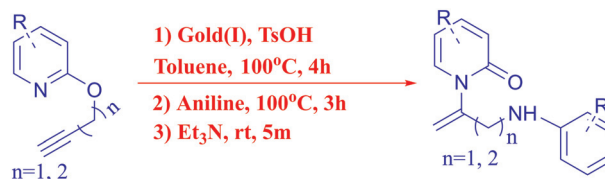


- ✓ Transition metal free
- ✓ *in situ* generation of aryldiazene
- ✓ Air as Oxidant
- ✓ Moderate to good yield
- ✓ Broad substrate scope and scalability

5646

Gold(I)-catalyzed synthesis of *N*-alkenyl 2-pyridonyl *sec*-amines

Ali Osman Karatavuk



5653

Regioselective Brønsted acid catalyzed ring opening of aziridines by phenols and thiophenols; a gateway to access functionalized indolines, indoles, benzothiazines, dihydrobenzo-thiazines, benzo-oxazines and benzochromenes

Arnab Roy, Surajit Duari, Srabani Maity, Subrata Biswas, Abhishek Kumar Mishra and Srijit Biswas*

