

Organic & Biomolecular Chemistry

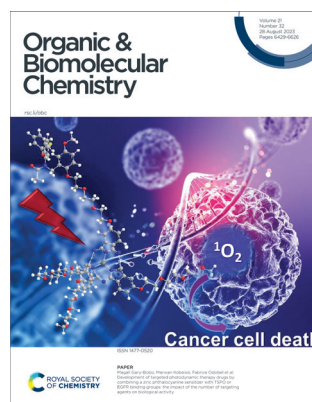
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ISSN 1477-0520 CODEN OBCRAK 21(32) 6429–6626 (2023)



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See Magali Gary-Bobo,
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Fabrice Odobel *et al.*,
pp. 6509–6523.

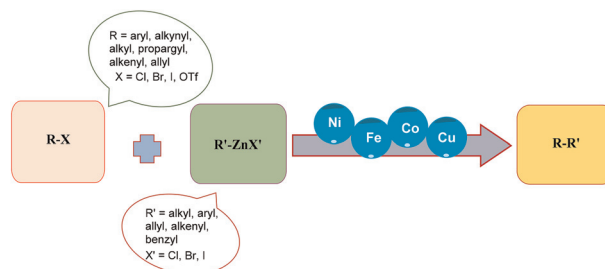
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REVIEWS

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Low-cost transition metal catalysed Negishi coupling: an update

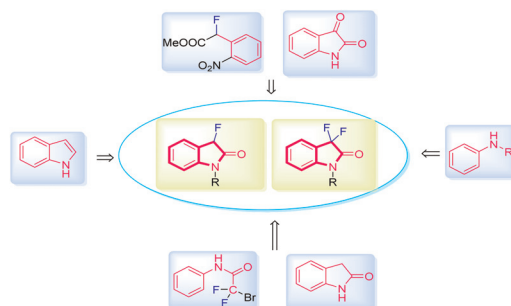
Pulluparambil Xavier Thresia Rinu, Rose Mary Philip and
Gopinathan Anilkumar



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Synthetic strategies for the construction of C3-fluorinated oxindoles

Deeksha, Bittu and Ritesh Singh*



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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.

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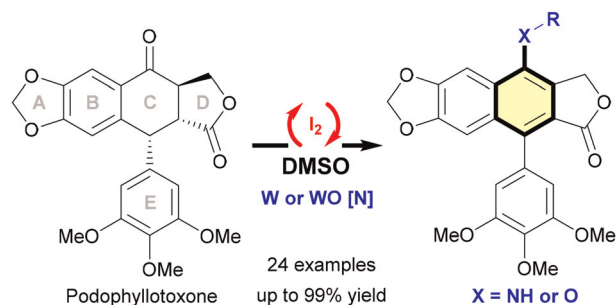


COMMUNICATIONS

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An I₂–DMSO catalytic manifold enabled aromatization for C-ring editing of podophyllotoxone

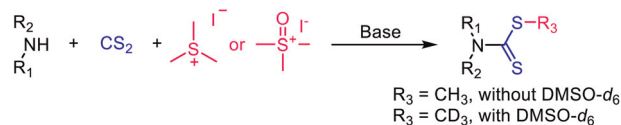
Peng Yuan, Rui Liu, Hui-Min Zhu, Zhixin Liao, Jia-Chen Xiang* and An-Xin Wu*



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Facile access to S-methyl dithiocarbamates with sulfonium or sulfoxonium iodide as a methylation reagent

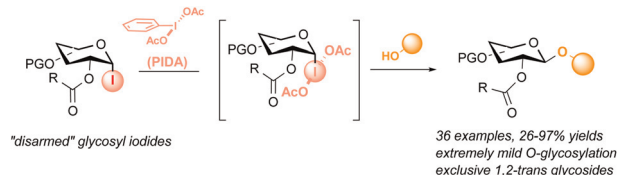
Huiying Deng, Lingling Xiang, Zhijun Yuan, Bohong Lin, Yiting He, Qi Hou, Yaoping Ruan and Jing Zhang*



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Stereoselective oxidative O-glycosylation of disarmed glycosyl iodides with alcohols using PIDA as the promoter

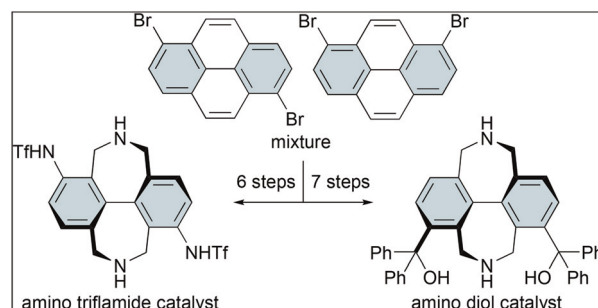
Maria A. Boulogeorgou, Alexandros Toskas, John K. Gallos* and Christos I. Stathakis*



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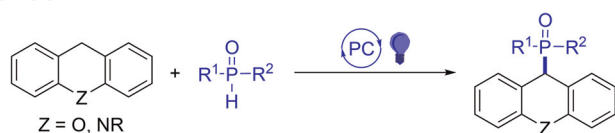
Synthesis of biphenyl-based chiral amine catalysts from dibromopyrenes and their application in enamine catalysis

Yuki Uwaso, Naoki Yokoyama and Taichi Kano*



COMMUNICATIONS

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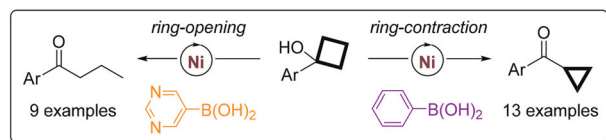


- ✓ Eco-friendly O_2 as the sole oxidant
- ✓ Catalytic photoredox process under mild conditions

Visible light irradiated photocatalytic $C(sp^3)-H$ phosphorylation of xanthenes and 9,10-dihydroacridines with $P(O)-H$ compounds

Mingjun Liu, Jiarui Zhu, Xuming Jiang, Xiangyun Yang and Qian Chen*

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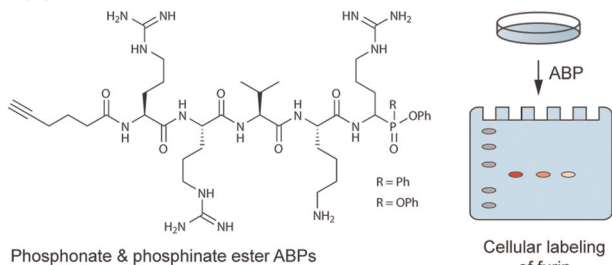


- ◆ Base metal catalysis
- ◆ Boronic acid-controlled divergent reaction pathway

Aryl boronic acid-controlled divergent ring-contraction and ring-opening/isomerization reaction of *tert*-cyclobutanols enabled by nickel catalysis

Zhichang He, Zhengwen Wang, Zhao Gao, Hongwei Qian, Wangqiannan Ding, Hongwei Jin, Yunkui Liu and Bingwei Zhou*

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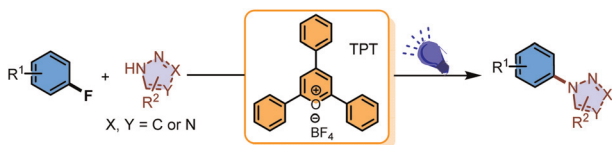
Phosphonate & phosphinate ester ABPs

Cellular labeling of furin

Furin-targeting activity-based probes with phosphonate and phosphinate esters as warheads

Shanping Ji and Steven H. L. Verhelst*

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- ♣ Broad substrate scope
- ♣ Defluorinative azolation
- ♣ Mild reaction conditions
- ♣ Inexpensive and commercially available photocatalysts
- ♣ Gram scale

Organic photoredox-catalyzed oxidative azolation of unactivated fluoroarenes

Guodong Ju, Yalong Li and Yingsheng Zhao*

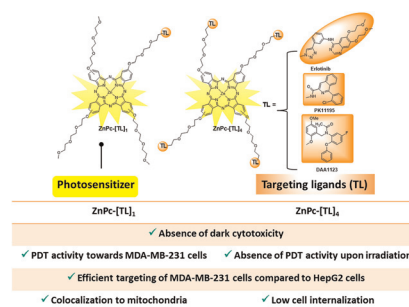


PAPERS

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Development of targeted photodynamic therapy drugs by combining a zinc phthalocyanine sensitizer with TSPO or EGFR binding groups: the impact of the number of targeting agents on biological activity

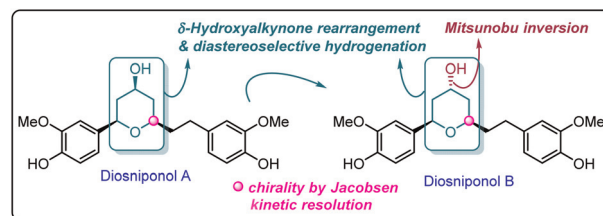
Isabelle Toubia, Christophe Nguyen, Stéphane Diring, Mélanie Onofre, Morgane Daurat, Corentin Gauthier, Magali Gary-Bobo,* Marwan Kobeissi* and Fabrice Odobel*



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Asymmetric total synthesis of diosniponols A and B

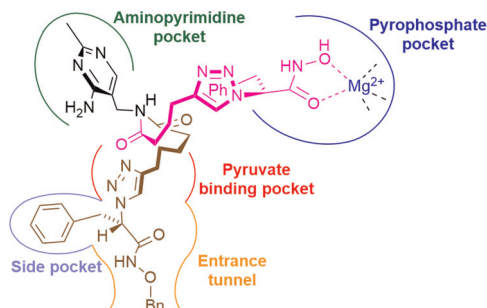
Deepak Saini, Dashrath Jangid and Rodney A. Fernandes*



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Open-chain thiamine analogues as potent inhibitors of thiamine pyrophosphate (TPP)-dependent enzymes

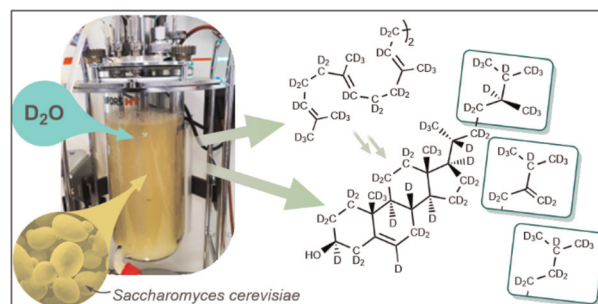
Alex H. Y. Chan, Terence C. S. Ho and Finian J. Leeper*



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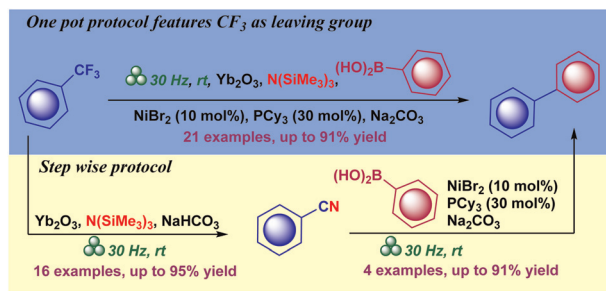
Deuterated squalene and sterols from modified *Saccharomyces cerevisiae*

Carl Recsei, Robert A. Russell, Marina Cagnes and Tamim Darwish*



PAPERS

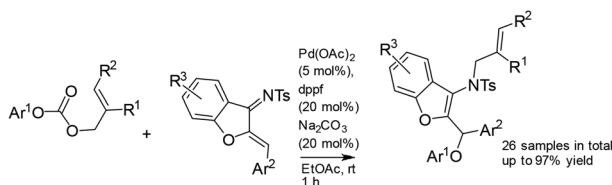
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Mechanochemical arylation of trifluoromethylarenes

Satenik Mkrtchyan, Mohanad Shkooor, Sehrish Sarfaraz, Khurshid Ayub and Viktor O. Iaroshenko*

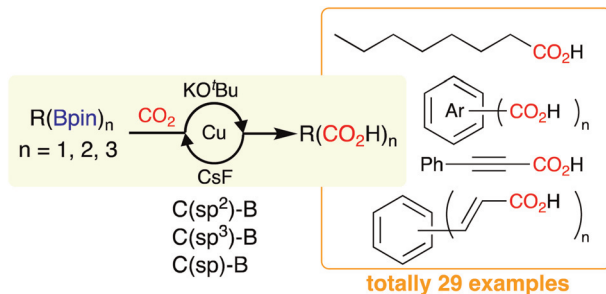
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Pd-catalyzed decarboxylative 1,4-addition reactions of benzofuran-based azadienes with allyl phenyl carbonates

Lu-Yu Cai, Xiu-Qing Song, Kuo Wang, Yue Zhang and Hong-Wu Zhao*

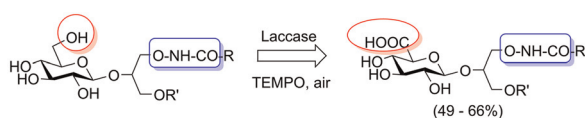
6565



Cu-catalyzed carboxylation of organoboronic acid pinacol esters with CO_2

Chihiro Maeda,* Takumi Cho, Ren Kumemoto and Tadashi Ema*

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R = alkyl chain; R' = NH-CO-R or CO-R

Chemistry: crucial oxidation step in the presence of N-oxyamides.

Biology: both carboxyl and N-oxyamide group improve the antiproliferative activity.

Synthesis of N-oxyamide analogues of protein kinase B (Akt) targeting anionic glycerolipids and their antiproliferative activity on human ovarian carcinoma cells

Marco Zuccolo, Giulia Orsini, Martina Quaglia, Luca Mirra, Cristina Corno, Nives Carenini, Paola Perego and Diego Colombo*

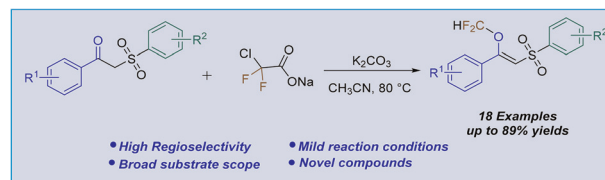


PAPERS

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A regioselective synthesis of β -difluoromethoxy vinyl sulfones *via* *O*-difluoromethylation of β -ketosulfones using sodium chlorodifluoroacetate

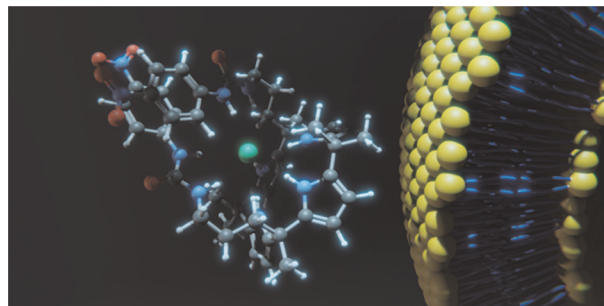
Km Ishu, Neha Sharma Prabhakar and Krishna Nand Singh*



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Anion binding and transport with *meso*-alkyl substituted two-armed calix[4]pyrroles bearing urea and hydroxyl groups

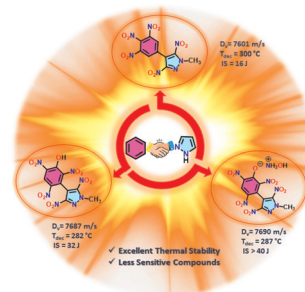
Małgorzata Pamuła, Evgeny Bulatov, Luis Martinez-Crespo, Anniina Kiesilä, Julia Naulapää, Elina Kalenius and Kaisa Helttunen*



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Polynitro-functionalized 4-phenyl-1*H*-pyrazoles as heat-resistant explosives

Krishna Pandey, Prachi Bhatia, Khwaja Mohammad, Vikas D. Ghule and Dheeraj Kumar*



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Synthesis of stable nonaromatic phenothiazinophyrins

Neha Tripathi, Avisikta Sinha and Mangalampalli Ravikanth*

