

# Organic & Biomolecular Chemistry

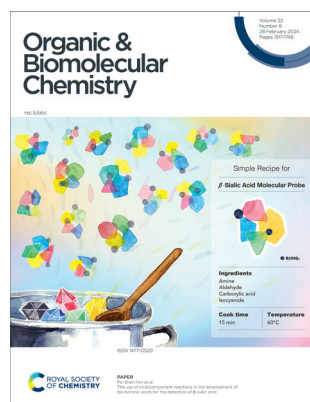
An international journal of synthetic, physical and biomolecular organic chemistry

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### Cover

See Po-Shen Pan *et al.*,  
pp. 1639–1645.

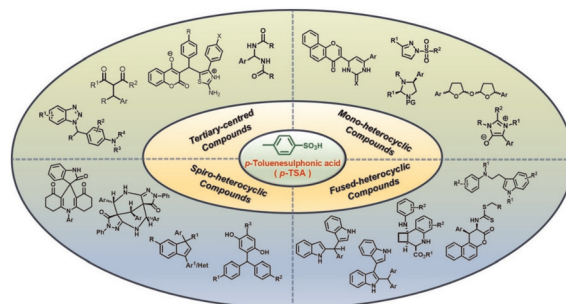
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*Org. Biomol. Chem.*, 2024,  
22, 1639.

## REVIEWS

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### *p*-Toluenesulfonic acid-promoted organic transformations for the generation of molecular complexity

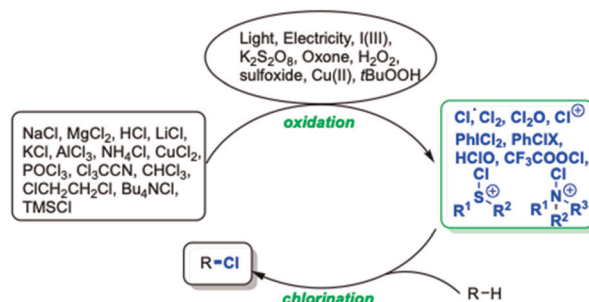
Sanchari Pal, Debjit Das\* and Sabyasachi Bhunia\*



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### Recent advances in oxidative chlorination

Hai-Lei Cui



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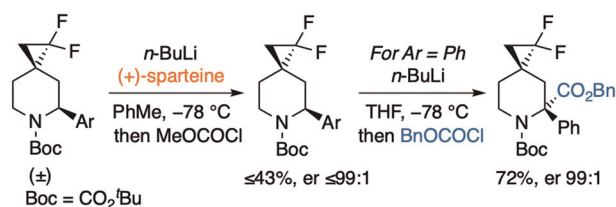


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**Synthesis of enantioenriched spirocyclic 2-arylpiperidines via kinetic resolution**

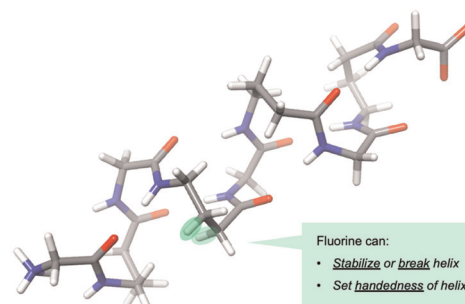
Anthony Choi, Anjan Das, Anthony J. H. M. Meijer, Ilaria Proietti Silvestri and Iain Coldham\*



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**The influence of backbone fluorination on the helicity of  $\alpha/\gamma$ -hybrid peptides**

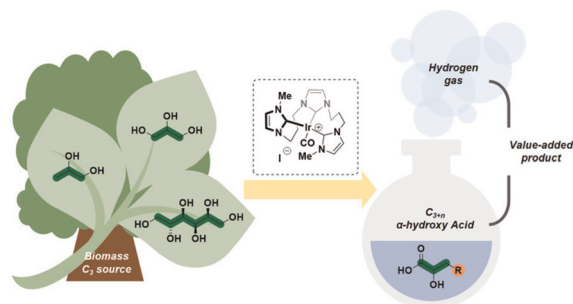
Alpesh Ramanlal Patel, Aggie Lawer, Mohan Bhadbhade and Luke Hunter\*



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**Ir(tri-N-heterocyclic carbene)-catalyzed upgrading of glycerol: C–C bond formation for the synthesis of  $\alpha$ -hydroxy acids**

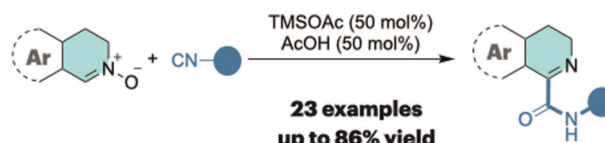
Heemin Byeon, Jaeho Kim, Mi-hyun Lee and Hye-Young Jang\*



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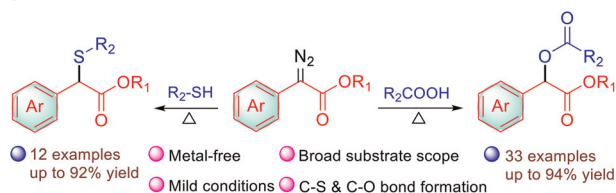
**Silylacetate-promoted addition reaction of isocyanides to nitrones: effective synthesis of C(1)-carboxamide derivatives**

Takahiro Soeta,\* Siming Yao, Hirokazu Sugiyama and Yutaka Ukaji\*



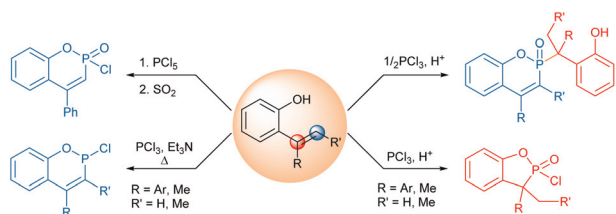
## COMMUNICATIONS

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Straightforward access to  $\alpha$ -carbonyloxy esters and  $\beta$ -keto thioethers from aryldiazoacetates

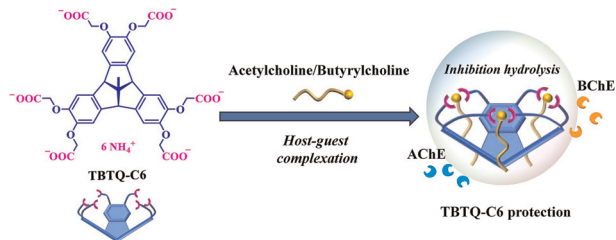
Naveen Kumar, Ajay Kant Gola and Satyendra Kumar Pandey\*

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Divergent synthesis of benzoxaphospholenes and phosphacoumarins *via* the reaction of 2-alkenylphenols with phosphorus(III/V) chlorides

Dmitry A. Tatarinov,\* Elina A. Mikulenkova, Igor A. Litvinov, Khasan R. Khayarov and Vladimir F. Mironov

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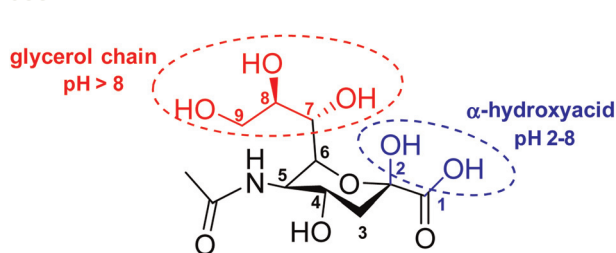


## A molecular container providing supramolecular protection against acetylcholine hydrolysis

Yi-Long Lu, Jing Su, Jian-Wei Li\* and Wen-Rong Xu\*

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The use of multicomponent reactions in the development of bis-boronic acids for the detection of  $\beta$ -sialic acid

Tzu-Ching Chou, Ying-Li Hu, Guan-Cheng Xie, Jyh-Chiang Jiang, Liang-Ying Peng, Hsiao-Chun Tsai, Chiao-Tien Yao, Yi-Jie Tsai, Ting-Yu Huang, Jing-Wen Hu, Yi-Ching Chen, Min-Yeh Tsai, Yi-Wei Chen and Po-Shen Pan\*

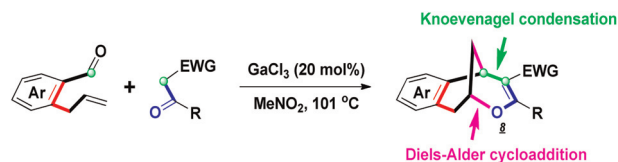


## PAPERS

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# One-pot synthesis of benzofused 8-oxabicyclo [3.3.1]nonanes via GaCl<sub>3</sub>-mediated cyclocondensation of *o*-allylbenzaldehydes and 1,3-dicarbonyl synthons

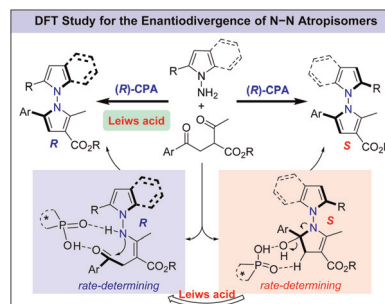
Meng-Yang Chang\* and Yan-Ling Lee



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# Theoretical insights into the enantiodivergence induced by chiral phosphoric acid catalysis with a Lewis acid for the synthesis of N–N axially chiral atropisomers

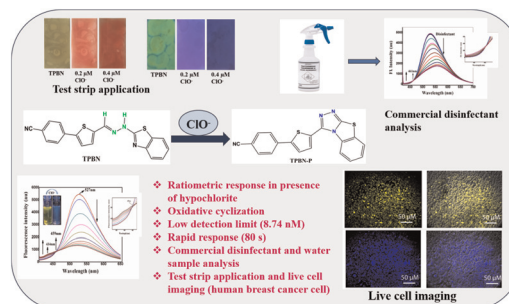
Yanze Li and Xinyao Li\*



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# A ratiometric small-molecule fluorescent probe for the selective detection of hypochlorite by an oxidative cyclization reaction: application to commercial disinfectants and live cells

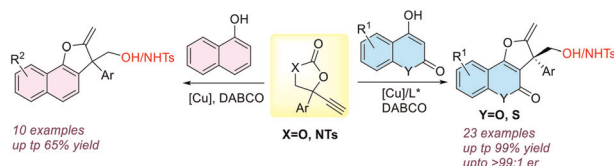
Shilpita Banerjee, Dipanjan Banik, Satyajit Halder, Anirban Karak, Pintu Ghosh, Kuladip Jana and Ajit Kumar Mahapatra\*



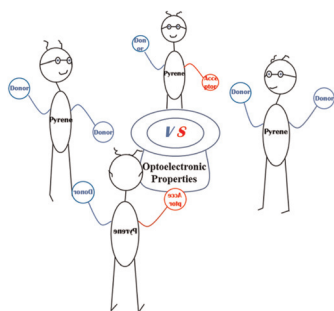
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# Decarboxylative [3 + 2] cycloaddition of propargyl cyclic carbonates with C,O-bis(nucleophile)s to access dihydrofuro[3,2-c]coumarins and dihydronaphtho[1,2-b]furans with quaternary center

Shravani Battula, Pranay Kothuri, Haripriya Bhumannagari and Kiranmai Nayani\*



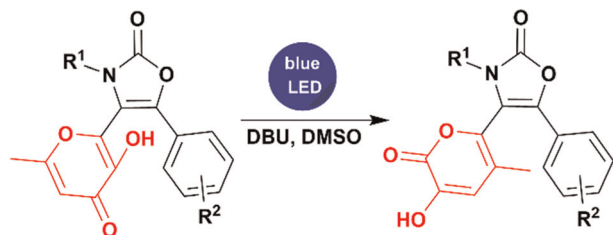
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### 4,9- and 4,10-Substituted pyrenes: synthesis, successful isolation, and optoelectronic properties

Leibo Tan, Xiuli Zheng, Junqing Shi,\* Tianshi Qin\* and Lei Ji\*

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### Anionic photochemical rearrangement of 3-hydroxypyran-4-ones bearing oxazol-2-one fragment

Andrey N. Komogortsev,\* Valeriya G. Melekhina and Boris V. Lichitskii

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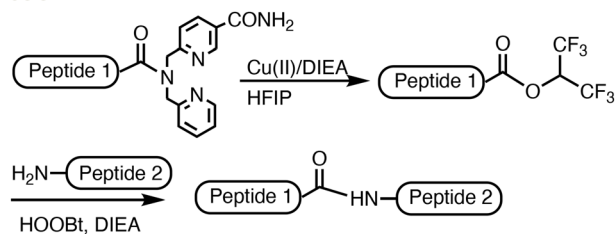
### Rhodium-catalyzed decarbonylative borylation of aryl anhydrides



### Decarbonylative borylation of aryl anhydrides via rhodium catalysis

Kexin Li, Ruxing Li, Yongmei Cui\* and Chengwei Liu\*

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### The dipicolylamino group as an efficient leaving group for amide bond formation via hexafluoroisopropyl ester

Yasuhito Akai, Yuya Asahina\* and Hironobu Hojo\*





## PAPERS

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### Radical relay cyclization/C–C bond formation of allyloxy-tethered aryl iodides with quinoxalin-2 (1*H*)-ones via polysulfide anion photocatalysis

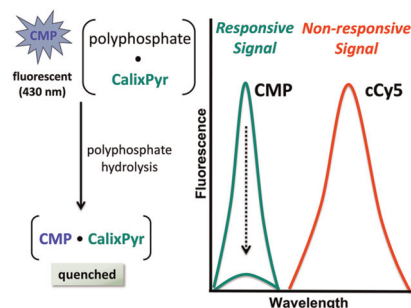
Zhongyi Zhang, Yaqin Zhou, Jiehui Wang, Yicheng Zhang, Lei Wang,\* Jie Liu, Chao Zhou,\* Min Wang and Pinhua Li\*



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### Fluorescent ratiometric supramolecular tandem assays for phosphatase and phytase enzymes

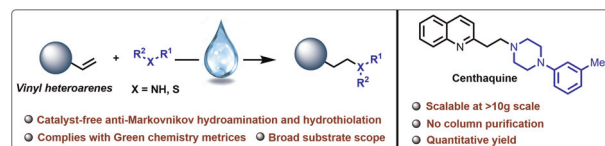
Kirk M. Atkinson and Bradley D. Smith\*



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### Catalyst-free anti-Markovnikov hydroamination and hydrothiolation of vinyl heteroarenes in aqueous medium: an improved process towards centaquine

Anamika Yadav, Mayur D. Ambule and Ajay Kumar Srivastava\*



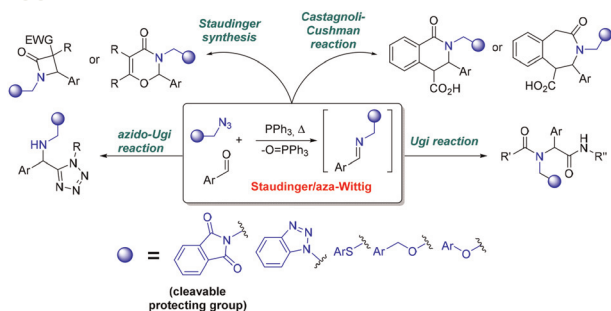
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### Base controlled rongalite-mediated reductive aldol/cyclization and dimerization of isatylidene malononitriles/cyanoacetates

Suryakant S. Chaudhari, Chandrakant B. Nichinde, Baliram R. Patil, Amardipsing S. Girase, Gamidi Rama Krishna and Anil K. Kinage\*



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Polina Paramonova, Ilia Eliseev, Dmitry Dar'in and Olga Bakulina\*

