

# Organic & Biomolecular Chemistry

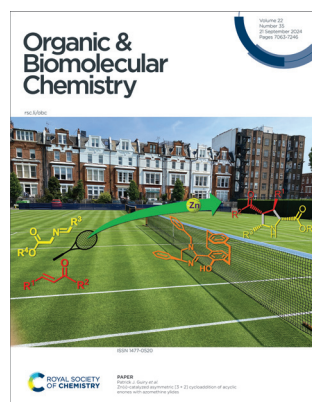
An international journal of synthetic, physical and biomolecular organic chemistry

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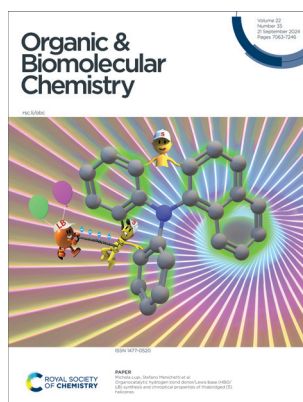
## IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 22(35) 7063–7246 (2024)



**Cover**  
See Patrick J. Guiry *et al.*,  
pp. 7148–7153.

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**Inside cover**  
See Michela Lupi,  
Stefano Menichetti *et al.*,  
pp. 7154–7163.

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**22**, 7154.

## EDITORIAL

7072

### Introduction to Computational Organic Chemistry

Jonathan M. Goodman, Jolene P. Reid and Judy I. Wu

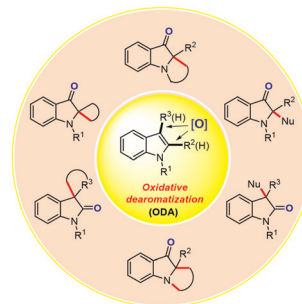


## REVIEWS

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### Recent advances in oxidative dearomatization involving C–H bonds for constructing value-added oxindoles

Le-Mao Yu,\* Haojin Chen, Wenjing Fang, Ruonan Cai,  
Yi Tao, Yong Li\* and Huaping Dong



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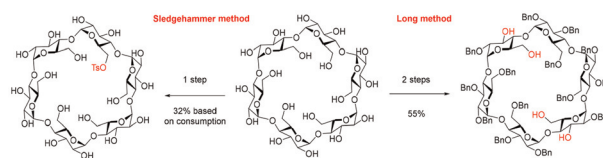
Fundamental questions  
Elemental answers

## REVIEWS

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New methods of modification of  $\alpha$ -cyclodextrin

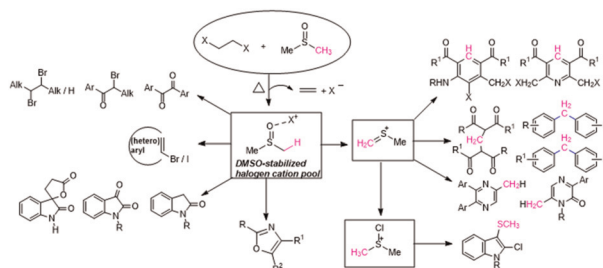
Bilge Deniz Özcan, Morten Lang Zimmermann, Mingzhe Ren and Mikael Bols\*



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## "Cation Pool" generated from DMSO and 1,2-dihaloethanes and their application in organic synthesis

Niranjan Panda,\* Kuntal Palit and Soumya Mohapatra

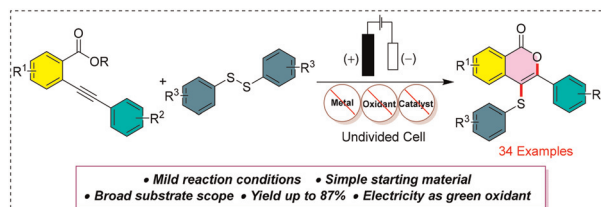


## COMMUNICATIONS

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Electrochemically driven regioselective construction of 4-sulfonyl-isochromenones from *o*-alkynylbenzoates and diaryl disulfides

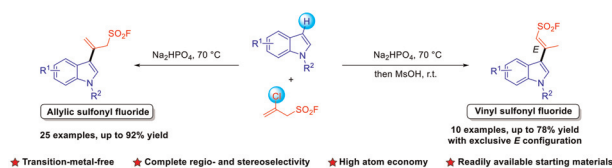
Anil Balajirao Dapkekar and Gedu Satyanarayana\*



7117

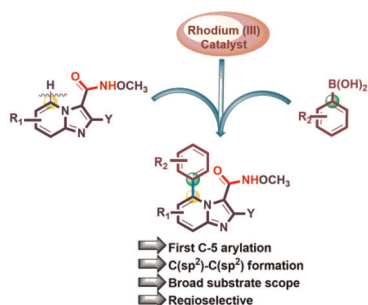
## A portal to highly valuable indole-functionalized vinyl sulfonyl fluorides and allylic sulfonyl fluorides

Wenzhuo Huang, Eman Fayad, Ola A. Abu Ali and Hua-Li Qin\*



## COMMUNICATIONS

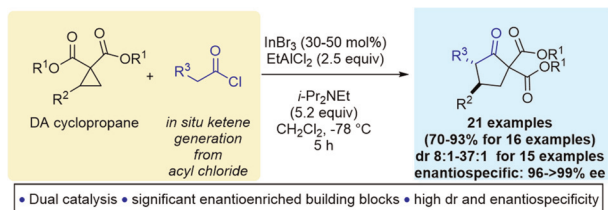
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## Directed regioselective arylation of imidazo[1,2-a]pyridine-3-carboxamides using Rh(III) catalysis

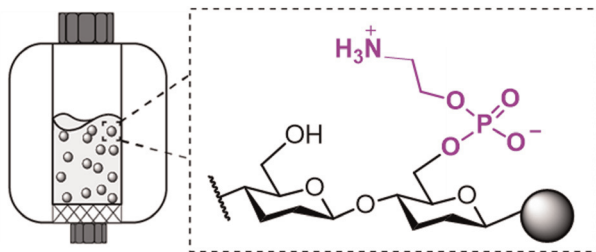
Kousar Jahan, Mehak Sood, Osheen Jain, Subash C. Sahoo and Prasad V. Bharatam\*

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Catalytic stereoselective synthesis of cyclopentanones from donor-acceptor cyclopropanes and *in situ*-generated ketenes

Shubhanjan Mitra, Sophie M. Connolly, Saud Ayidi, Mukulesh Mondal, Manashi Panda, Brian G. Kelly and Nessian J. Kerrigan\*

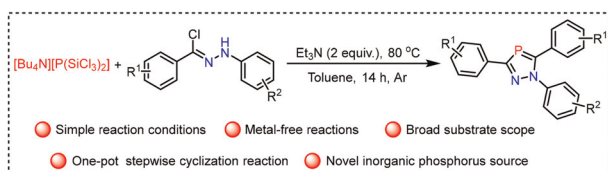
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## On resin synthesis of phosphoethanolamine cellulose

Jhih-Yi Huang and Martina Delbianco\*

7138

Synthesis of 1,2,4-diazaphospholes via base-promoted cyclization reaction of hydrazoneyl chlorides and [Bu<sub>4</sub>N][P(SiCl<sub>3</sub>)<sub>2</sub>]

Xin Wang, Hui Luo, Bo Yang, Ming Li, Yong-Jun Ma, Xi-Cun Wang\* and Zheng-Jun Quan\*

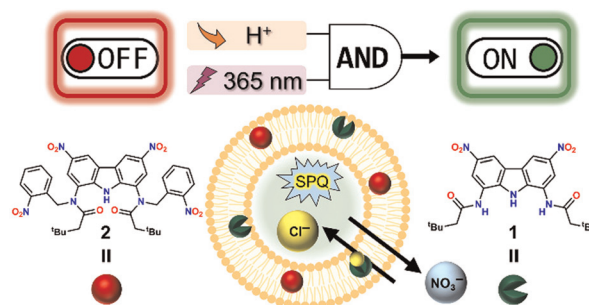


## COMMUNICATIONS

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## A photocaged, pH-sensitive anion transporter with AND logic dual-stimuli activation

Bartłomiej Zawada and Michał J. Chmielewski\*

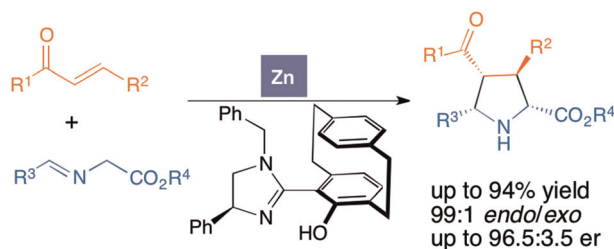


## PAPERS

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## Zn(II)-catalyzed asymmetric [3 + 2] cycloaddition of acyclic enones with azomethine ylides

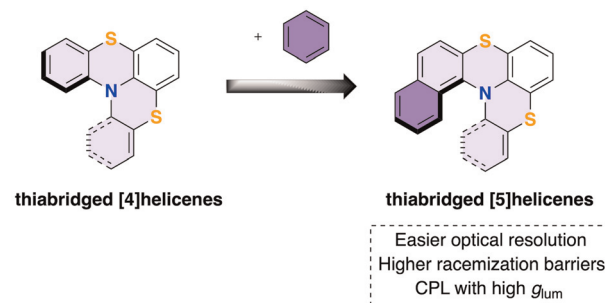
Sundaravel Vivek Kumar, Jeremiah Olusegun and Patrick J. Guiry\*



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## Organocatalytic hydrogen bond donor/Lewis base (HBD/LB) synthesis and chiroptical properties of thiabridged [5]helicenes

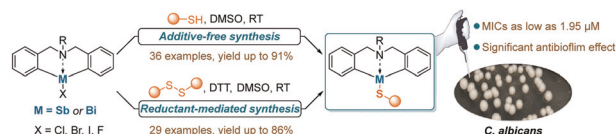
Michela Lupi,\* Mosè Fabbri, Giuseppe Mazzeo, Giovanna Longhi, Sergio Abbate, Caterina Viglianisi and Stefano Menichetti\*



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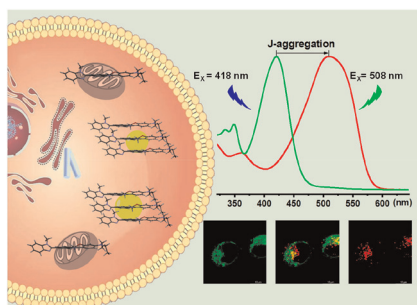
## Facile synthesis and antifungal evaluation of hypervalent organoantimony(III) and organobismuth(III) thioates with tridentate C,N,C-coordinating ligands

Zixiu Wang, Yan Huang, Dandan Deng, Shan Li,\* Yimei Yu, Yifei Ye, Yi Chen\* and Jian Lei\*



## PAPERS

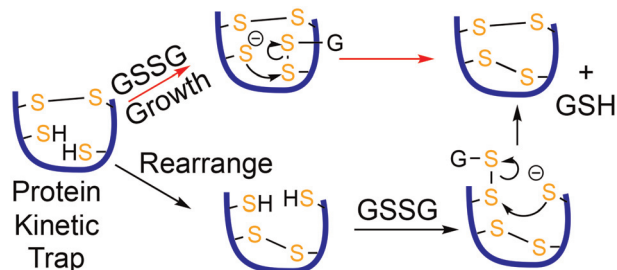
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### Harnessing J-aggregation for dual-color cellular imaging with chromenoquinoline-benzimidazole dyes

Huimin Shangguan, Zixuan Teng, Xiaojie Ren\* and Xingjiang Liu\*

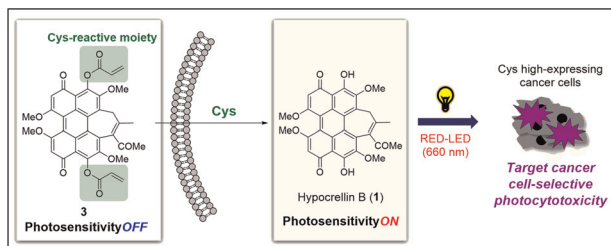
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### A growth type pathway for improving the folding of BPTI

Yingsong Wang, Shweta Mandumula and Watson J. Lees\*

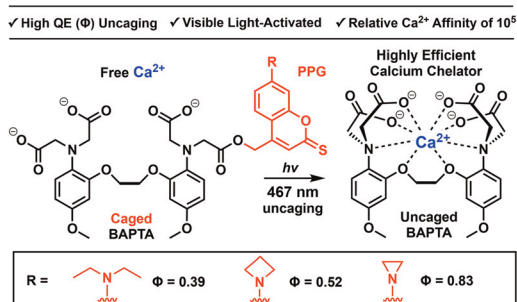
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### A novel photosensitizer based on hypocrellin B activated by cysteine over-expressed in cancer cells

Fumihisa Ishida, Rikuto Onishi, Daisuke Takahashi and Kazunobu Toshima\*

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### Highly efficient $\text{Ca}^{2+}$ chelation activated by visible light

Nishal M. Egodawaththa, Olivia Rajhel, Jingxuan Ma, Charitha Guruge, Alec B. Pabarue, Emily Harris, Roberto Peverati and Nasri Nesnas\*

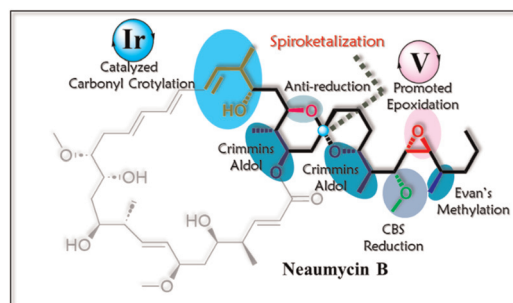


## PAPERS

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### Stereoselective synthesis of the northern hemisphere of the proposed structure of neaumycin B

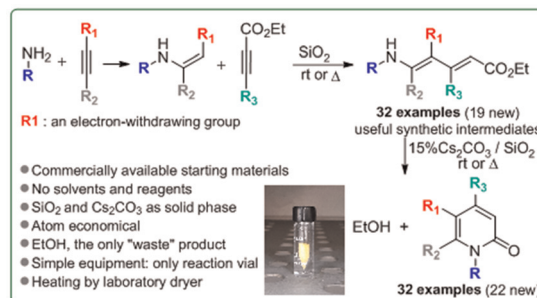
Himangshu Sharma, Sujan Paul, Swapnamoy Ganguly, Sourya Shankar Auddy and Rajib Kumar Goswami\*



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### Solid-state synthesis of polyfunctionalized 2-pyridones and conjugated dienes

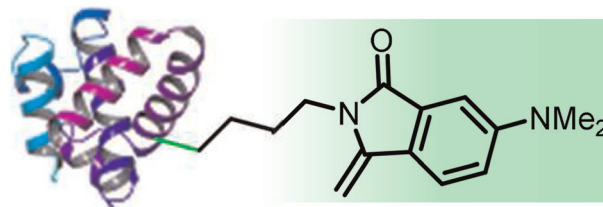
Anđela Stanisavljević, Jovana Aleksić, Milovan Stojanović\* and Marija Baranac-Stojanović\*



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### Design and synthesis of an environment-sensitive 3-methyleneisoindolin-1-one fluorophore for labeling DNA-interacting proteins

Mariko Aso,\* Chiyoe Ohta, Yixuan Liu, Kaori Sasaki-Tabata, Yukiko Abe-Sadamatsu, Chiemi Gatanaga, Yichun Wang, Yang Pei, Guosheng Gao, Tsutomu Katayama, Yosuke Taniguchi and Shigeki Sasaki



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### A one-pot five component reaction for the synthesis of tetrazol-benzofuran hybrids and their inhibitory activity against *Mucor lusitanicus*

Cesia M. Aguilar-Morales, Viridiana Alejandre-Castañeda, Claudia Contreras-Celedón, Martha Isela Ramírez-Díaz, Alejandro Islas-Jácome, Victor Meza-Carmen,\* Luis Chacón-García\* and Carlos J. Cortés-García\*

