

# Organic & Biomolecular Chemistry

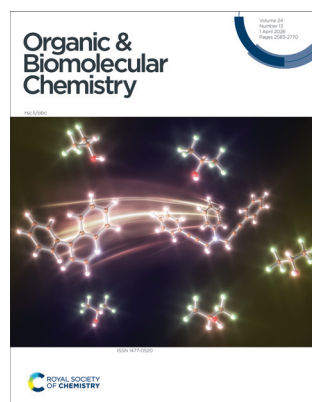
An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

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### Cover

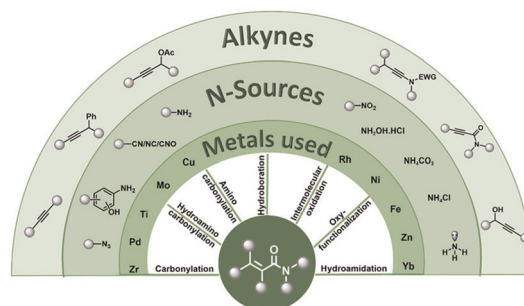
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## REVIEWS

2592

### Acrylamides from alkynes: a synthetic overview

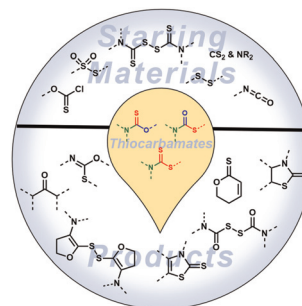
Shivam Bhargav, Akash Singh, Ashirwad Divedi, Anjul Vilas, Preeti Gupta and Jawahar L. Jat\*



2613

### Recent progress on thiocarbamates: synthesis and applications

Ao-Cheng Wang, Si-Yu Hu, Xin-Yu Lin, Ning Li, Yong-Ying Cui,\* Qing-Xin Li\* and Zhi-Bing Dong\*



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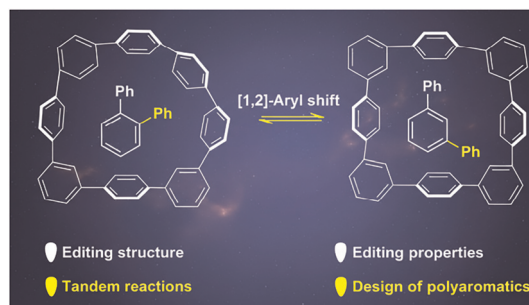
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## REVIEWS

2626

### Cationic [1,2]-aryl shift in the design of poly(hetero)aromatic systems: from structure to functional materials

I. S. Mekeda, R. Yu. Balakhonov and V. Z. Shirinian\*

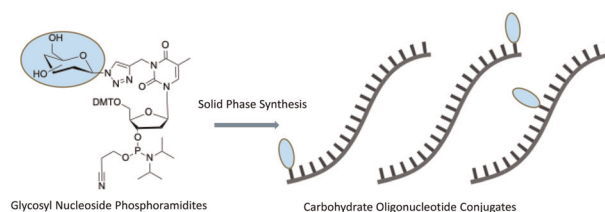


## COMMUNICATIONS

2640

### Glycosyl modified nucleoside motifs for glycoconjugation of oligonucleotides

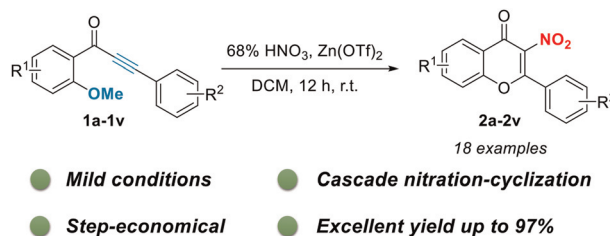
Biju Majumdar, Haythem Abda, Henri Barry, Julien Verget, Lea Mulot, Helene Pereira, Corinne Arpin, Alexandra Gaubert, Patricia Korczak, Brune Vialet, Tina Kauss and Philippe Barthélémy\*



2645

### Efficient one-step synthesis of 3-nitroflavones via cascade nitration-cyclization

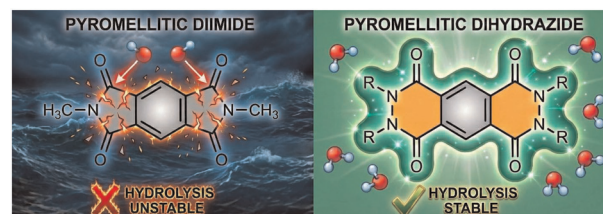
Yilin Yang, Chukai Shao,\* Ruirui Hua, Rui Tian, Ziang Wang, Hongquan Yin, Houhua Zhu and Fu-Xue Chen\*



2650

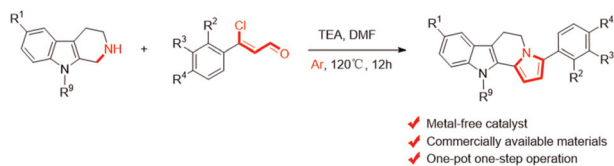
### Pyromellitic dihydrazides as hydrolytically stable analogs of pyromellitic diimide

Journey M. Amundson, Ryan B. Brush, Kara M. Jensen, Baela R. Funk, Healeam Jung, Sam K. Mamicha, Victor G. Young, Jr., Eryck Garcia L., Liana M. Klivansky and Dennis D. Cao\*



## COMMUNICATIONS

2655

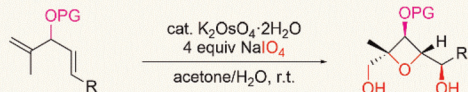


### Base-promoted intermolecular cyclization of substituted 3-aryl-3-chloropropenals with tetrahydro- $\beta$ -carboline: a method for the synthesis of indolino[8,7-*b*]indole compounds

Kairong Chen, Miao Yang, Shuang Chen, Yanchuan Gong, Junnan Xu, Meixiang Ye, Jie Zhang\* and Liang Guo\*

2660

#### Oxidative Cyclization of 1,4-Dienes



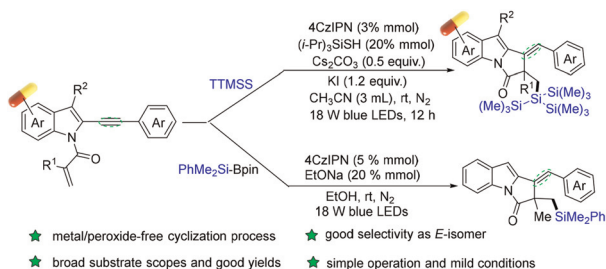
◆ readily available 1,4-dienes; ◆ unprecedented oxetane formation;

◆ 4 C-O bonds formed in 1 step; ◆ high diastereoselectivity; ◆ multiple stereocenters

### Diastereoselective oxidative cyclization of 1,4-dienes for the synthesis of oxetanes

Shengxin Wang, Yanhua Zhang,\* Chao Wang\* and Lili Zong

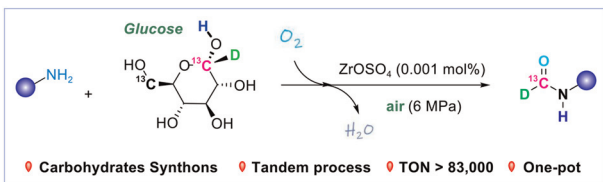
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### Photo-induced silylation cyclization of indole-tethered 1,6-enynes to access silylated pyrrolo[1,2-*a*]indole derivatives

Jingyi Chen, Lijun Li,\* Haoran Feng, Zexuan Liu, Xueli Wang, Qinqin Yan\* and Zejiang Li\*

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### Lewis acid-mediated formamidation employing carbohydrates as synthons

Yanyu Li, Wenbin Zhang, Zhichao Zhang, Xiulin Li, Qianqian Liang, Yaru Liu\* and Guoying Zhang\*

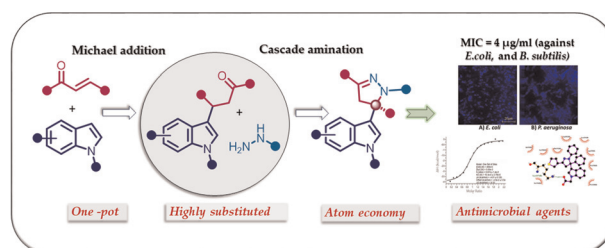


## COMMUNICATIONS

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### Iodine-mediated cascade amination enables one-pot access to antimicrobial indole-embedded dihydropyrazoles

M. S. Ajay Krishna, K. T. Ashitha, Meghashyama Prabhakara Bhat, Muthuraj Rudrappa, C. S. Athira, A. L. Lalshikanther Basha, Sunil Varughese, Naveen Vankadari, Sreenivasa Nayaka and Sasidhar B. Somappa\*

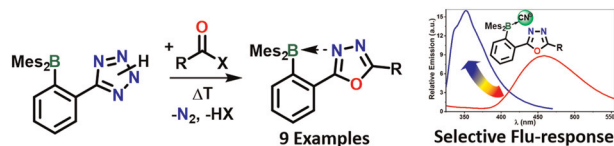


## PAPERS

2683

### Dynamic N→B coordination and anion-selective turn-on fluorescence in oxadiazole-functionalized organoboranes

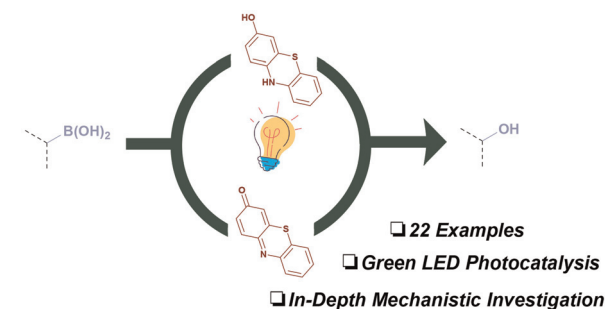
Jonas D. W. Schepper, Andreas Orthaber and Frank Pammer\*



2696

### 3H-Phenothiazin-3-one: a photocatalyst for the mild oxidation of boronic acids under green LED irradiation

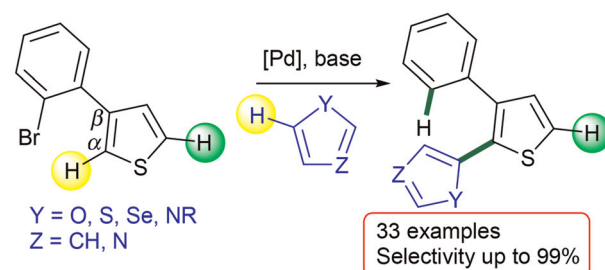
Constantinos T. Constantinou, Petros L. Gkizis, Dragos F. Flesariu, Stamatis K. Serviou, Georgia A. Zissimou, Panayiotis A. Koutentis and Christoforos G. Kokotos\*



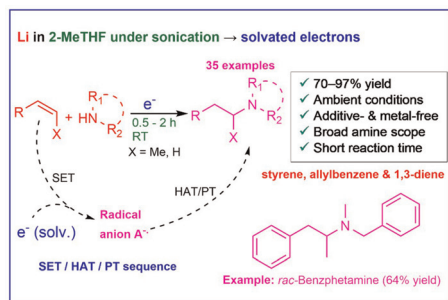
2703

### Palladium-catalyzed 1,4-migration for the regioselective C–H bond functionalization at C2-position of 3-arylthiophenes

Bo Lan, Norman Le Floch and Henri Doucet\*



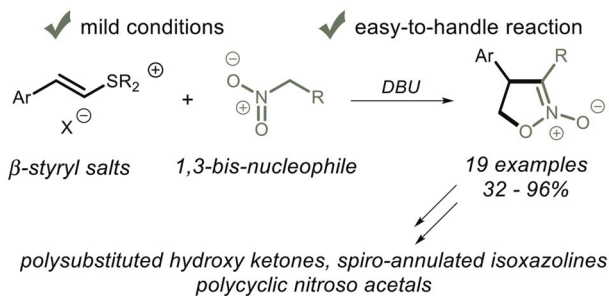
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### Solvated electron-driven hydroamination of olefins

Anietie W. Williams and Kerry M. Gilmore\*

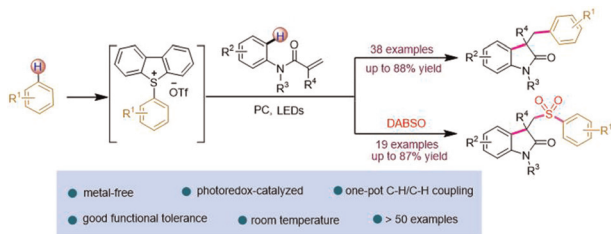
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### Annulation of aliphatic nitro compounds with $\beta$ -styryl sulfonium salts toward the synthesis of isoxazoline *N*-oxides

Pavel Yu. Ushakov, Stepan N. Chichulin, Alexey Yu. Sukhorukov and Andrey A. Tabolin\*

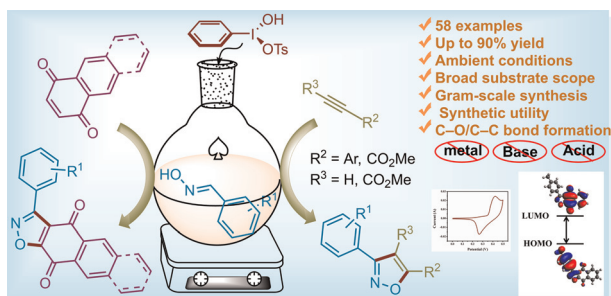
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### Tunable synthesis of oxindoles and sulfonated oxindoles *via* photoredox-catalyzed C–H/C–H coupling

Qiaomei Zhu, Binjie Liu, Zhihan Hu, Haifeng Hu, Xinlian Huang, Xinyue Jiang, Ping Zhang\* and Xianwei Sui\*

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### Koser's reagent-promoted synthesis of substituted isoxazoles and their photophysical properties

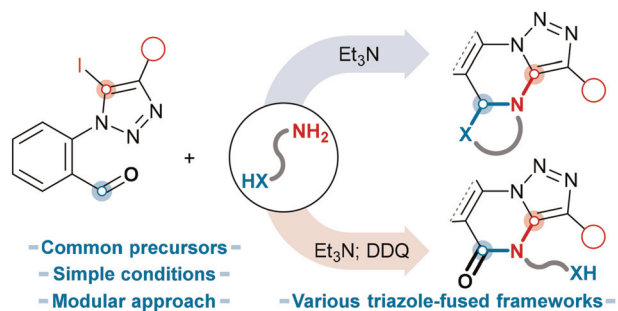
Rajnish Budhwan, Pooja Dahiya, Nikunj Singh, Shivom Chauhan and Rama Krishna Peddinti\*



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### Divergent assembly of fused polycyclic scaffolds from iodotriazole-tethered benzaldehydes

Anfisa L. Shosheva, Roman S. Tatevosian, Gennadij V. Latyshev, Yury N. Kotovshchikov,\* Nikolay V. Lukashev and Irina P. Beletskaya



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### Synthesis of oxaprozin analogs from 2H-azirines and cyclic anhydrides

Reyhaneh Azimi, Kamran Amiri, S. Sina Hosseini, Robert Stranger, Alireza Ariafarid,\* Frank Rominger, Hamid Reza Bijanzadeh and Saeed Balalaie\*

