

# Organic & Biomolecular Chemistry

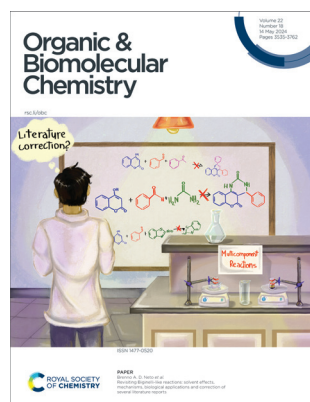
An international journal of synthetic, physical and biomolecular organic chemistry

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### Cover

See Brenno A. D. Neto *et al.*, pp. 3630–3651.

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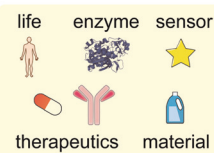
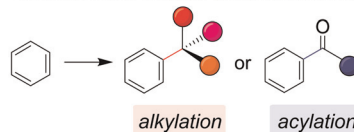
## REVIEWS

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### Friedel–Crafts reactions for biomolecular chemistry

Jun Ohata

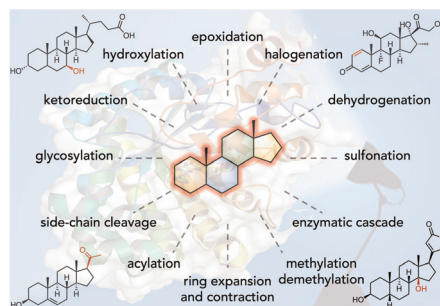
#### Biomolecular Friedel–Crafts Reactions



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### Recent developments in the enzymatic modifications of steroid scaffolds

Huibin Wang and Ikuro Abe\*



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Elemental answers

## COMMUNICATIONS

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### Synthesis of Asp-based lactam cyclic peptides using an amide-bonded diaminodiacid to prevent aspartimide formation

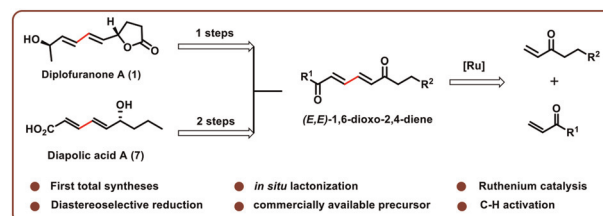
Wen-Jie Li, Jun-You Chen, Hui-Xia Zhu, Yi-Ming Li and Yang Xu\*



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### Total synthesis of diplofuranone A and diapolic acid A

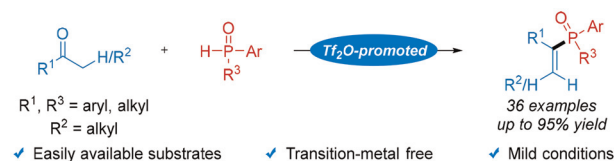
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### Synthesis of alkenylphosphine oxides via $\text{TiF}_2\text{O}$ promoted addition–elimination of ketones and secondary phosphine oxides

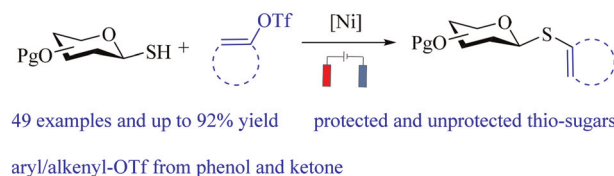
Jiangkai Ma, Lianjie Wang, Anjiang Qiao, Zhongxian Li,\* Fengqian Zhao\* and Junliang Wu\*



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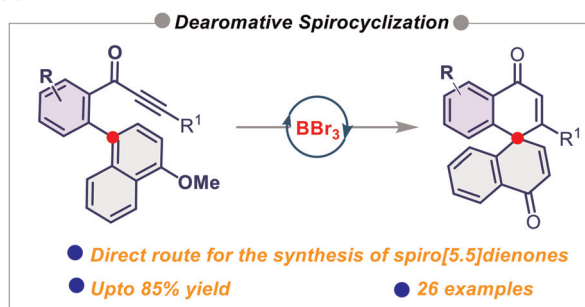
### Electrochemical nickel-catalyzed cross-coupling of glycosyl thiols with preactivated phenols and ketones

Fuxin Li, Hui Liu, Wanyu Xing, Qingju Zhang\* and Liming Wang\*



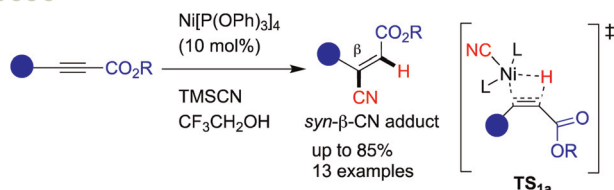
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**BBr<sub>3</sub>-mediated dearomative spirocyclization of biaryl ynones: facile access to spiro[5.5]dienones**

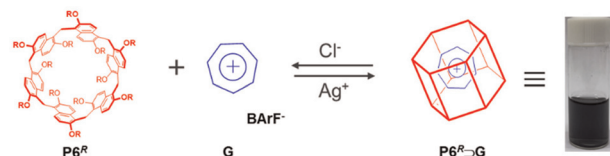
Gaurav Jaiswal and Subhas Chandra Pan\*

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**Nickel-catalysed regio- and stereoselective hydrocyanation of alkynoates and its mechanistic insights proposed by DFT calculations**

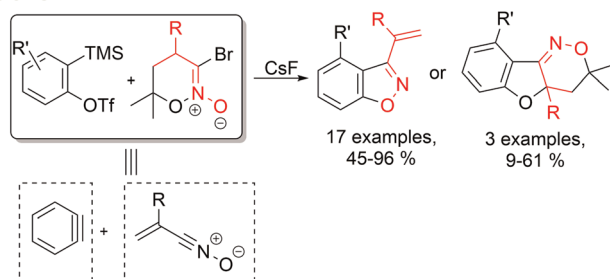
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Guojiao Zhang, Channi Cheng, Zhengxiang Li, Dezhi Zhao and Chengyou Han\*

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Alexander A. Lukoyanov, Svetlana A. Aksenova, Andrey A. Tabolin\* and Alexey Yu. Sukhorukov



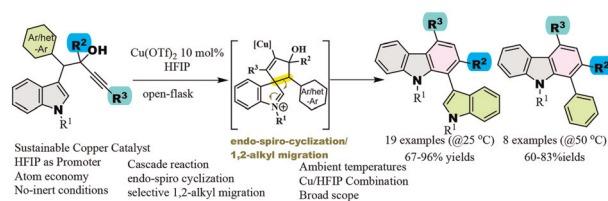


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**Cu(OTf)<sub>2</sub>/HFIP catalyzed regioselective cycloisomerization of indole-C3-functionalized alkynols to carbazoles**

Srinivasarao Yaragorla,\* Tabassum Khan and Sayonika Chakroborty



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**Revisiting Biginelli-like reactions: solvent effects, mechanisms, biological applications and correction of several literature reports**

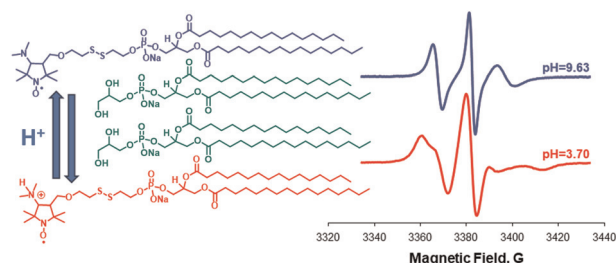
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**Measuring local pH at interfaces from molecular tumbling: A concept for designing EPR-active pH-sensitive labels and probes**

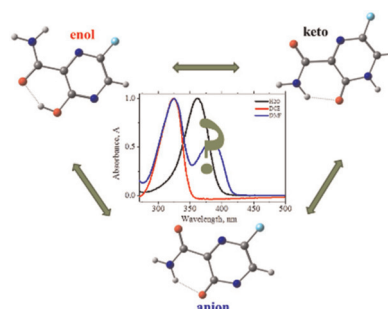
Maxim A. Voinov, Nicholas Nunn, Roshan Rana, Atli Davidsson, Alex I. Smirnov and Tatyana I. Smirnova\*



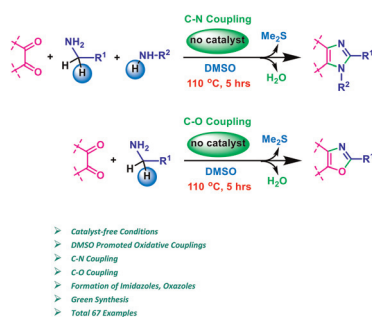
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**Structural flexibility of favipiravir and its structural analogues in solutions: experimental and computational insight**

Tatiana P. Gerasimova, Almaz A. Zagidullin, Anastasiia N. Nikolaeva, Robert R. Fayzullin, Aliya M. Saitova, Vasili A. Miluykov, Stefan Grimme and Sergey A. Katsyuba\*



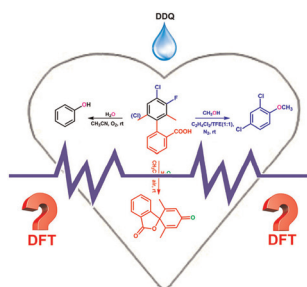
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## DMSO promoted catalyst-free oxidative C–N/C–O couplings towards synthesis of imidazoles and oxazoles

Debasish Bera, Rajib Sarkar, Tiyasa Dhar, Pinaki Saha, Prasanta Ghosh and Chhanda Mukhopadhyay\*

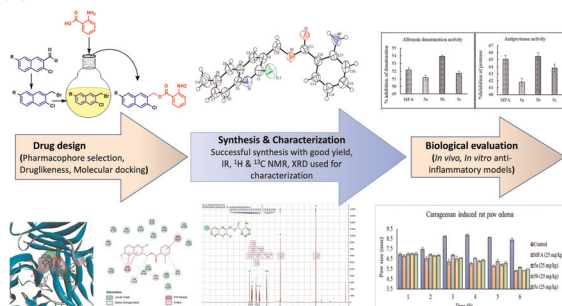
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## DFT investigation of the DDQ-catalytic mechanism for constructing C–O bonds

Xiu-Fang Zheng, Da-Gang Zhou\* and Li-Jun Yang\*

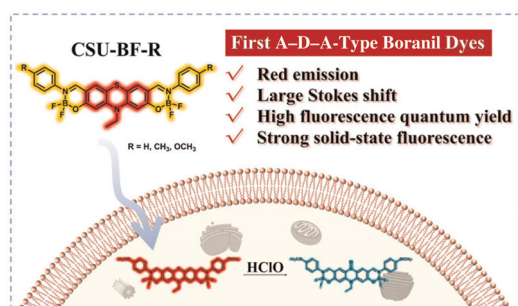
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## Design, synthesis, biological evaluation and molecular docking studies of quinoline-anthranilic acid hybrids as potent anti-inflammatory drugs

Sidra Siddique, Khalid Hussain,\* Naureen Shehzadi, Muhammad Arshad,\* Muhammad Nadeem Arshad, Sadaf Iftikhar, Farhat Saghir, Ayisha Shaukat, Muhammad Sarfraz and Nisar Ahmed\*

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## Design, synthesis, and biological application of A–D–A-type boranil fluorescent dyes

Wei Luo, Yiling Li, Liang Wang, Yanhua Qin, Qiao Cheng, Guochang Hu,\* Chaoyi Yao\* and Xiangzhi Song\*

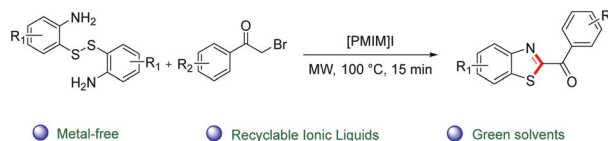


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### Sustainable preparation of 2-acylbenzothiazoles under the cooperation of ionic liquids and microwave irradiation

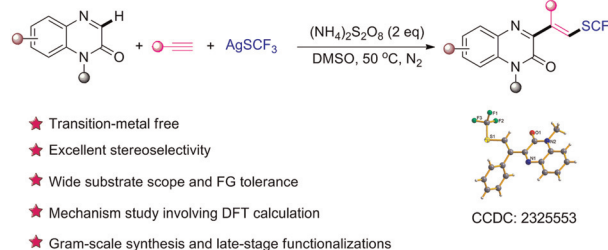
Shoushun Wang, Mengjie Liu, Yiyuan Yue, Xiude Hu, Yalin Zhang,\* Guodong Shen,\* Ruiguo Dong, Lilong Shi, Bing Yu and Xianqiang Huang\*



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### Efficient synthesis of SCF<sub>3</sub>-containing 3-alkenyl-quinoxalinones via three-component radical cascade reaction

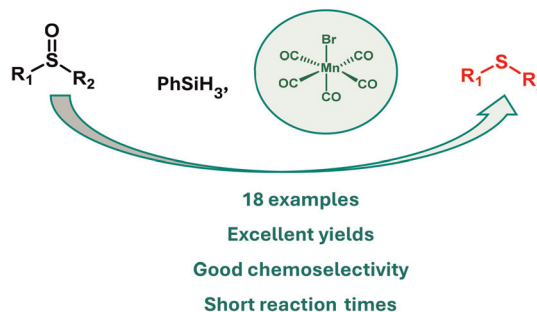
Si-Yu Wang, Chu Liu, Wei Yang, Zhong-Ying Tian, Lin Yuan and Long-Yong Xie\*



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Daniel L. Lourenço and Ana C. Fernandes\*



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### Electro-oxidative three-component cascade coupling of isocyanides with elemental sulfur and amines for the synthesis of 2-aminobenzothiazoles

Peng-Fei Huang,\* Jia-Le Fu, Ying Peng, Jian-Hong Fan, Long-Jin Zhong, Ke-Wen Tang and Yu Liu\*

