

## IN THIS ISSUE

ISSN 2041-6539 CODEN CSHCBM 14(21) 5531–5812 (2023)



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## COMMENTARY

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### A focus on aromaticity: fuzzier than ever before?

Henrik Ottosson

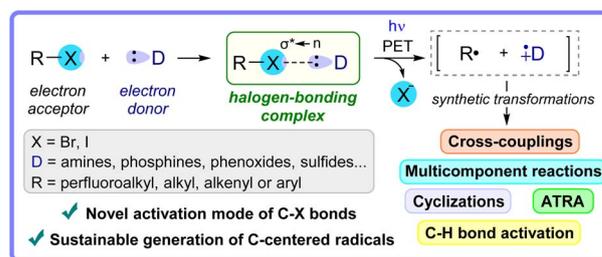


## REVIEW

5545

### Shining light on halogen-bonding complexes: a catalyst-free activation mode of carbon–halogen bonds for the generation of carbon-centered radicals

Helena F. Piedra, Carlos Valdés and Manuel Plaza\*



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Chemical Science (electronic: ISSN 2041-6539) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK.

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**Aromaticity: Quo Vadis**

Gabriel Merino,\* Miquel Solà,\* Israel Fernández,\*  
Cina Foroutan-Nejad,\* Paolo Lazzeretti,\*  
Gernot Frenking,\* Harry L. Anderson, Dage Sundholm,  
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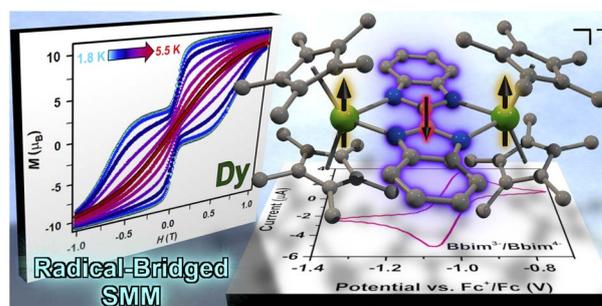


## EDGE ARTICLES

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**Magnetic hysteresis and large coercivity in bisbenzimidazole radical-bridged dilanthanide complexes**

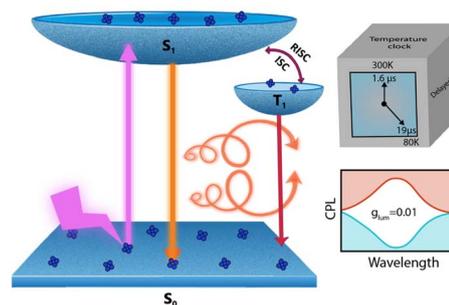
Florian Benner, Léo La Droitte, Olivier Cador,  
Boris Le Guennec and Selvan Demir\*



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**Delayed luminescence guided enhanced circularly polarized emission in atomically precise copper nanoclusters**

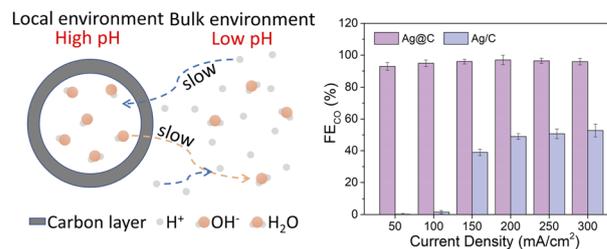
Camelia Dutta, Sonia Maniappan and Jatish Kumar\*



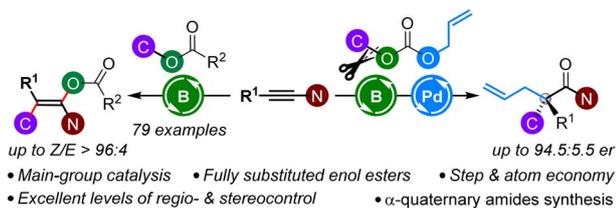
5602

**Confinement of an alkaline environment for electrocatalytic CO<sub>2</sub> reduction in acidic electrolytes**

Xiaozhi Li, Peng Zhang, Lili Zhang, Gong Zhang, Hui Gao,  
Zifan Pang, Jia Yu, Chunlei Pei, Tuo Wang  
and Jinlong Gong\*



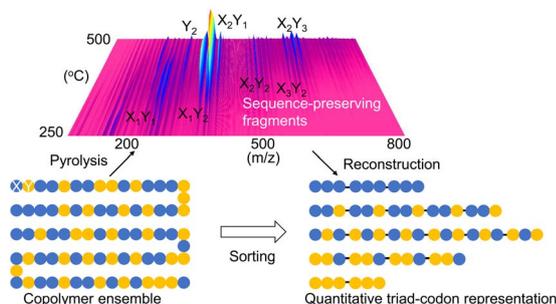
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### Atom-economic and stereoselective catalytic synthesis of fully substituted enol esters/carbonates of amides in acyclic systems enabled by boron Lewis acid catalysis

Yuanjiu Xiao, Lei Tang, Tong-Tong Xu, Jiang-Yi-Hui Sheng, Zhongyan Zhou, Lei Yue, Guoqiang Wang,\* Martin Oestreich\* and Jian-Jun Feng\*

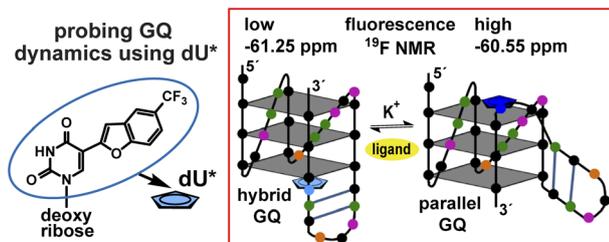
5619



### A data-driven sequencer that unveils latent "codons" in synthetic copolymers

Yusuke Hibi,\* Shiho Uesaka and Masanobu Naito\*

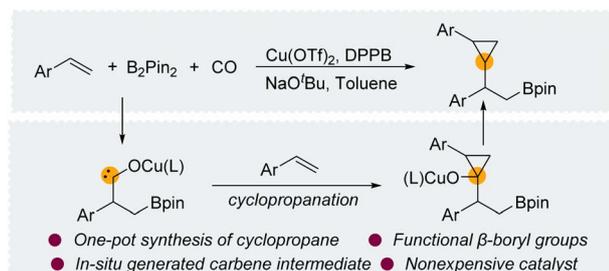
5627



### Probing juxtaposed G-quadruplex and hairpin motifs using a responsive nucleoside probe: a unique scaffold for chemotherapy

Saddam Y. Khatik, Sruthi Sudhakar, Satyajit Mishra, Jeet Kalia, P. I. Pradeepkumar and Seergazhi G. Srivatsan\*

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### Copper-catalyzed synthesis of $\beta$ -boryl cyclopropanes via 1,2-borocyclopropanation of aryl olefins with CO as the C1 source

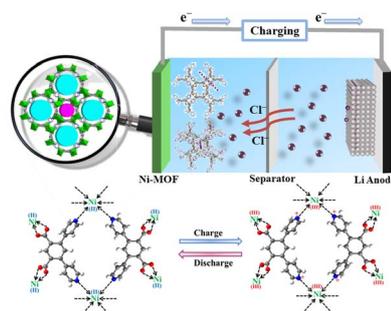
Hui-Qing Geng and Xiao-Feng Wu\*



5643

### A nickel-based metal–organic framework as a new cathode for chloride ion batteries with superior cycling stability

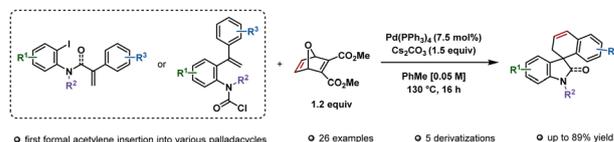
Qing Yin, Zhihao Song, Shuhan Yang, Gang-Ding Wang, Yanwei Sui,\* Jiqiu Qi, Danyang Zhao, Lei Hou\* and Yong-Zhi Li\*



5650

### Synthesis of spirooxindoles via formal acetylene insertion into a common palladacycle intermediate

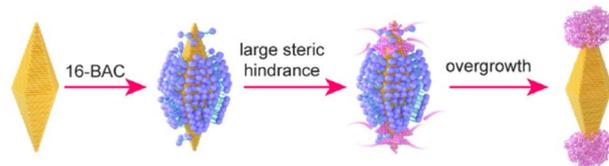
Xavier Abel-Snape, Colton E. Johnson, Bianca Imbriaco and Mark Lautens\*



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### Steric hindrance-induced selective growth of rhodium on gold nanobipyramids for plasmon-enhanced nitrogen fixation

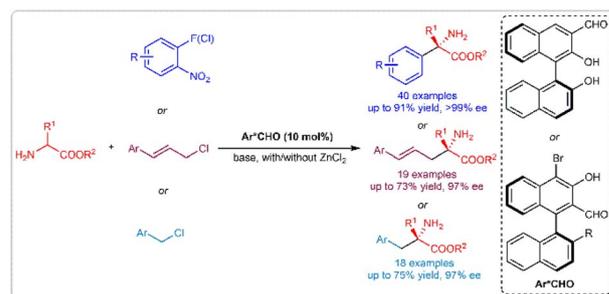
Henglei Jia, Fan Li, Yuanyuan Yang, Mengxuan Zhao, Jingzhao Li and Chun-yang Zhang\*



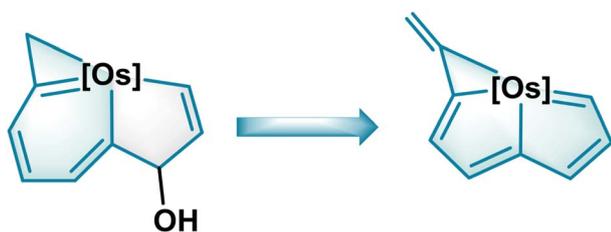
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### Chiral aldehyde catalysis enables direct asymmetric $\alpha$ -substitution reaction of N-protected amino acids with halohydrocarbons

Hao-Ran Shen, Chao-Xing Li, Xin Jiang, Yao Lin, Jian-Hua Liu, Fang Zhu, Zhu-Lian Wu, Tian Cai, Wei Wen,\* Rong-Xing He and Qi-Xiang Guo\*



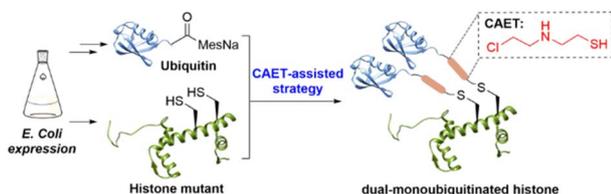
5672



### Reshaping aromatic frameworks: expansion of aromatic system drives metallabenzenoids to metallapentalenes

Qian Li, Jiawei Fei, Kaidong Ruan, Yuhui Hua, Dafa Chen, Ming Luo\* and Haiping Xia\*

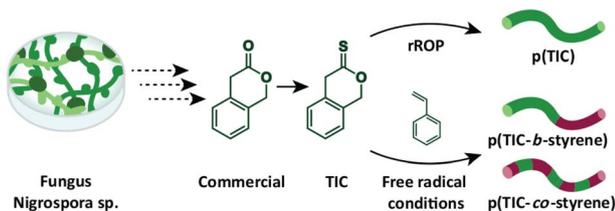
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### The expedient, CAET-assisted synthesis of dual-monoubiquitinated histone H3 enables evaluation of its interaction with DNMT1

Zichen Li, Zebin Tong, Qingyue Gong, Huasong Ai,\* Shuai Peng, Cong Chen, Guo-Chao Chu and Jia-Bin Li\*

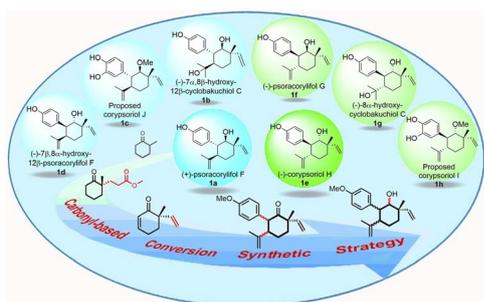
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### Radical ring-opening polymerization of sustainably-derived thionoisochromanone

Emily A. Prebhalo, Anna M. Luke, Yernaidu Reddi, Christopher J. LaSalle, Vijay M. Shah, Christopher J. Cramer and Theresa M. Reineke\*

5699



### Enantioselective total syntheses of six natural and two proposed meroterpenoids from *Psoralea corylifolia*

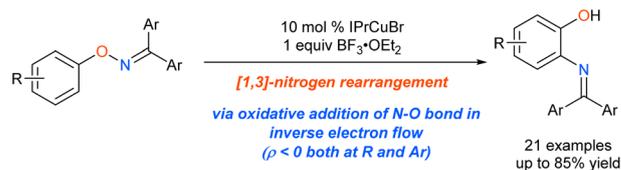
Xiao-Wei Chen, Zi-Chao Hou, Chi Chen, Ling-Hui Zhang, Meng-En Chen and Fu-Min Zhang\*



5705

### Copper-catalyzed [1,3]-nitrogen rearrangement of O-aryl ketoximes via oxidative addition of N–O bond in inverse electron flow

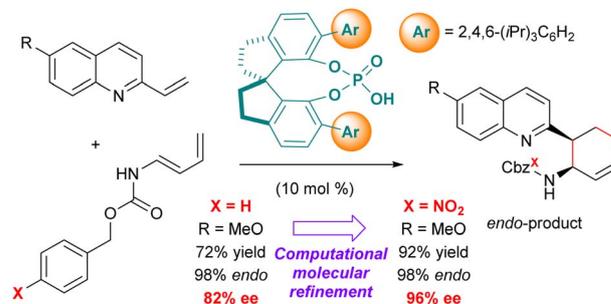
Mao Suzuki, Masahiro Terada and Itaru Nakamura\*



5712

### Computational molecular refinement to enhance enantioselectivity by reinforcing hydrogen bonding interactions in major reaction pathway

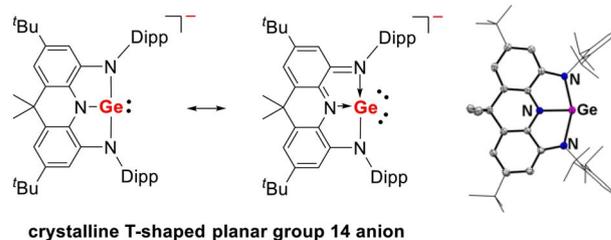
Taishi Nakanishi and Masahiro Terada\*



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### A crystalline T-shaped planar group 14 anion

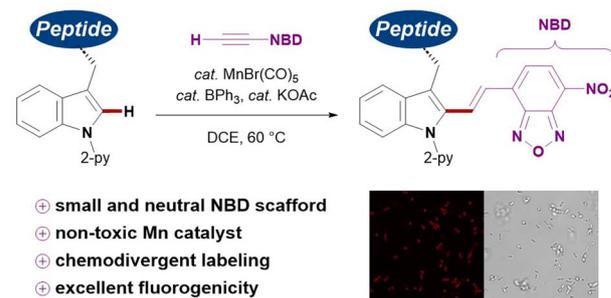
Xiaona Liu, Yuyang Dai, Manling Bao, Wenjuan Wang, Qianli Li, Chunmeng Liu, Xinping Wang\* and Yuanting Su\*



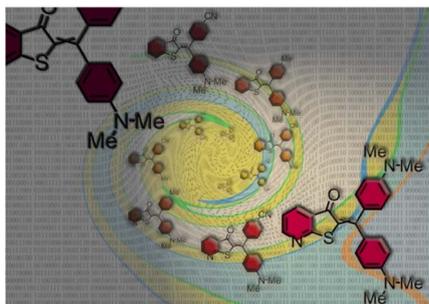
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### Late-stage peptide labeling with near-infrared fluorogenic nitrobenzodiazoles by manganese-catalyzed C–H activation

Tsuyoshi Oyama, Lorena Mendive-Tapia, Verity Cowell, Adelina Kopp, Marc Vendrell\* and Lutz Ackermann\*



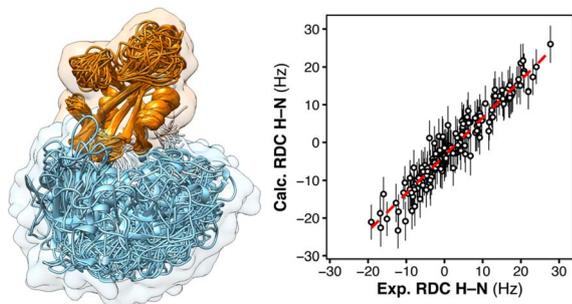
5734



### A cross-conjugation approach for high-performance diaryl-hemithioindigo photoswitches

Max Zitzmann, Frank Hampel and Henry Dube\*

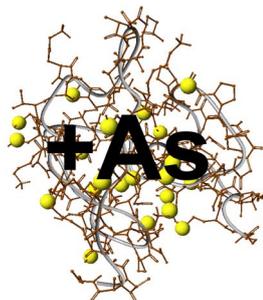
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### Experiment-guided molecular simulations define a heterogeneous structural ensemble for the *PTPN11* tandem SH2 domains

Michelangelo Marasco, John Kirkpatrick, Teresa Carlomagno, Jochen S. Hub and Massimiliano Anselmi\*

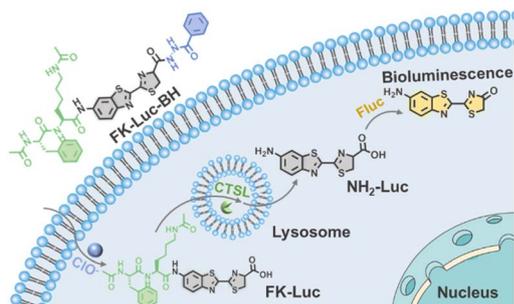
5756



### Arsenic binding to human metallothionein-3

Amelia T. Yuan and Martin J. Stillman\*

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### An AND-gate bioluminescent probe for precise tumor imaging

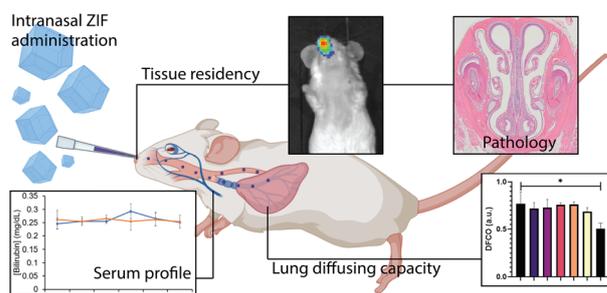
Chenchen Wang, Yajian Hong, Ling Dong, Hu Cheng, Duo Jin, Ronghua Zhao, Zian Yu and Yue Yuan\*



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**In vivo biocompatibility of ZIF-8 for slow release via intranasal administration**

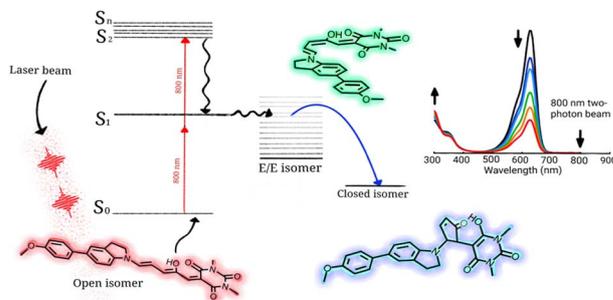
Sneha Kumari,\* Thomas S. Howlett, Ryanne N. Ehrman, Shailendra Koirala, Orikeda Trashi, Ikeda Trashi, Yalini H. Wijesundara and Jeremiah J. Gassensmith\*



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**Two-photon isomerization properties of donor-acceptor Stenhouse adducts**

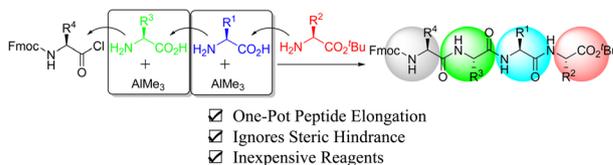
Francisco A. Reza-González, Emmanuel Villatoro, Mariana M. Reza, Jesús Jara-Cortés, Héctor García-Ortega, Edgard F. Blanco-Acuña, José G. López-Cortés, Nuria Esturau-Escofet, Alan Aguirre-Soto and Jorge Peon\*



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**Trimethylaluminum-mediated one-pot peptide elongation**

Tomohiro Hattori\* and Hisashi Yamamoto\*



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**Quantum chain amplification in nanocrystalline Dewar benzenes by intramolecular sensitization**

Edris Rivera, Indrajit Paul, Javier Fajardo, Jr and Miguel A. Garcia-Garibay\*

