

# Chemical Science

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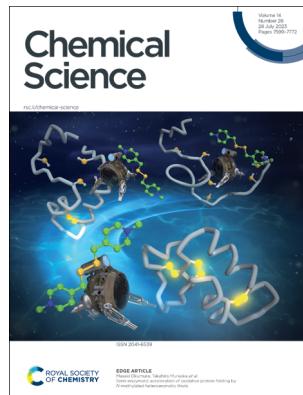
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See Takao Yamaguchi, Satoshi Obika *et al.*, pp. 7620–7629.  
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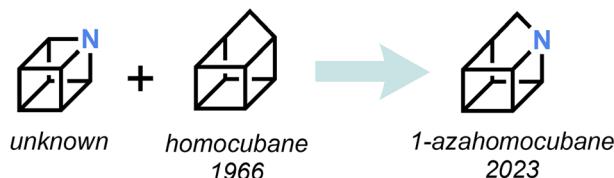
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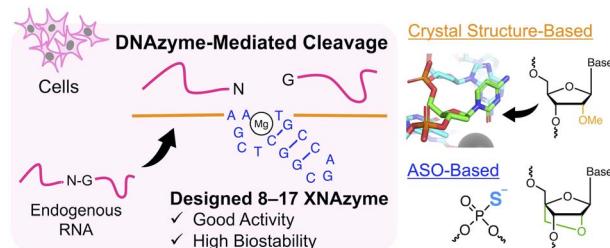
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**Development of 8–17 XNAzymes that are functional in cells**

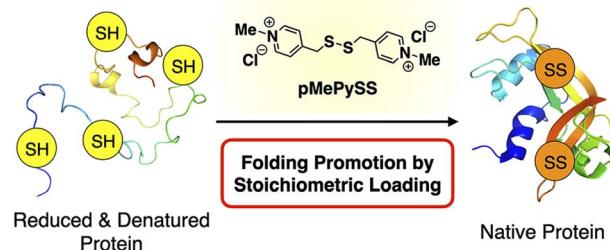
Kosuke Chiba, Takao Yamaguchi\* and Satoshi Obika\*



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**Semi-enzymatic acceleration of oxidative protein folding by *N*-methylated heteroaromatic thiols**

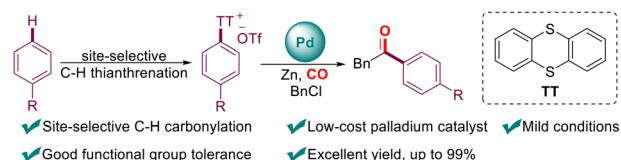
Shunsuke Okada, Yosuke Matsumoto, Rikana Takahashi, Kenta Arai, Shingo Kanemura, Masaki Okumura\* and Takahiro Muraoka\*



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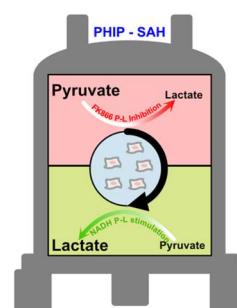
Jiajun Zhang, Le-Cheng Wang, Zhi-Peng Bao and Xiao-Feng Wu\*



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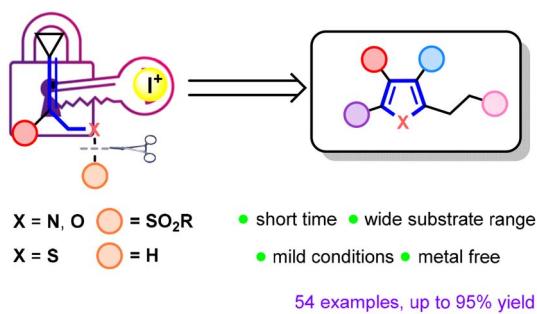
**Real-time cell metabolism assessed repeatedly on the same cells via para-hydrogen induced polarization**

Yonghong Ding, Gabriele Stevanato, Frederike von Bonin, Dieter Kube and Stefan Glöggler\*



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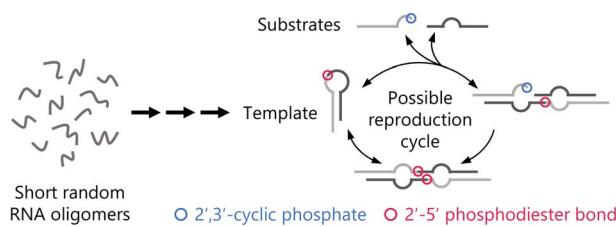
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**Construction of pyrroles, furans and thiophenes via intramolecular cascade desulfonylative/dehydrogenative cyclization of vinylidenecyclopropanes induced by NXS (X = I or Br)**

Zhe Meng, Jun Yan, Chao Ning, Min Shi\* and Yin Wei\*

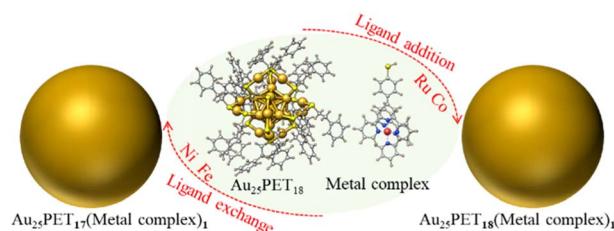
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**Minimal RNA self-reproduction discovered from a random pool of oligomers**

Ryo Mizuuchi\* and Norikazu Ichihashi

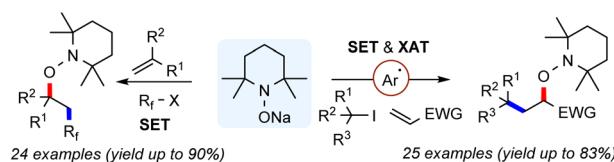
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**Engineering ligand chemistry on Au<sub>25</sub> nanoclusters: from unique ligand addition to precisely controllable ligand exchange**

Jiangtao Zhao, Abolfazl Ziarati,\* Arnulf Rosspeintner, Yanan Wang and Thomas Bürki\*

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**1,2-Aminooxyalkylation of alkenes with alkyl iodides and TEMPO Na through SET- and XAT-processes**

Anirban Maity and Armido Studer\*

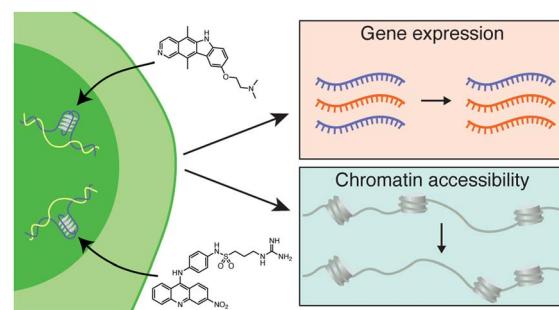


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**G4-DNA formation and chromatin remodelling are interdependent in human cells**

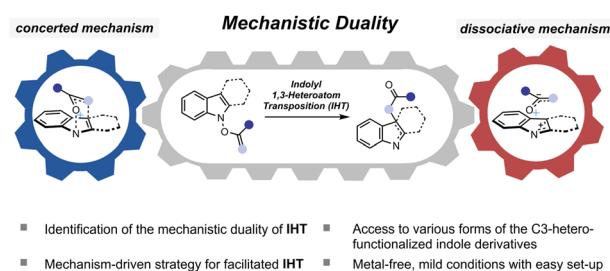
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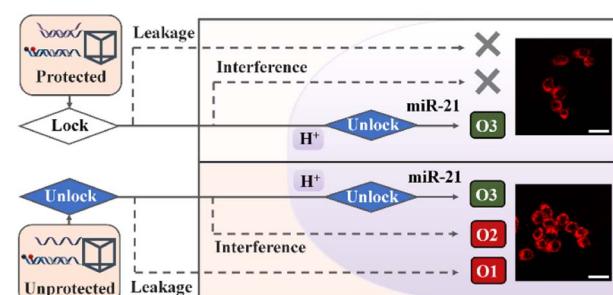
Yujin Lee, Yun Seung Nam, Soo Young Kim, Jeong Eun Ki and Hong Geun Lee\*



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**Intracellular activated logic nanomachines based on framework nucleic acids for low background detection of microRNAs in living cells**

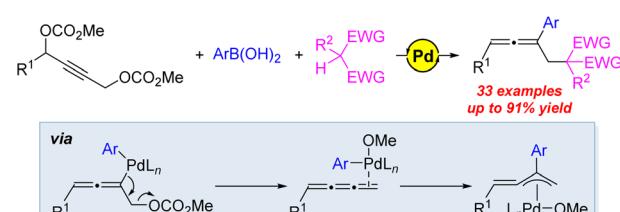
Xiao-Qiong Li, Yi-Lei Jia, Yu-Wen Zhang, Hong-Yuan Chen and Jing-Juan Xu\*



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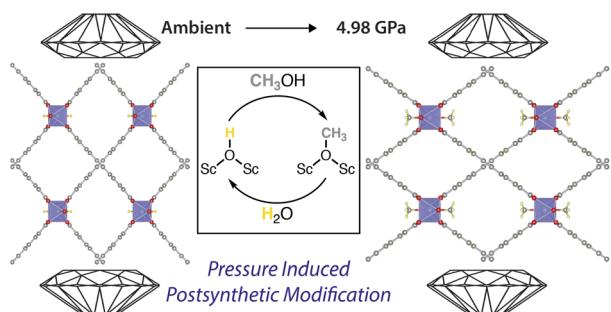
**A Pd-catalyzed highly selective three-component protocol for trisubstituted allenes**

Can Li, Zhengnan Zhou and Shengming Ma\*



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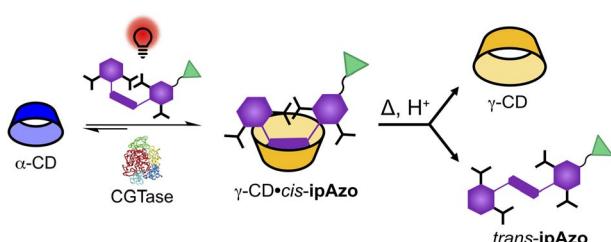
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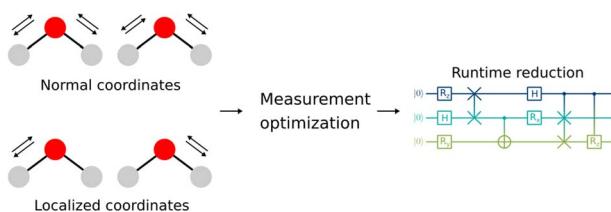
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**Light-controlled enzymatic synthesis of  $\gamma$ -CD using a recyclable azobenzene template**

Juliane Sørensen, Emilie Ljungberg Hansen, Dennis Larsen, Mathias Albert Elmquist, Andreas Buchleithner, Luca Florean and Sophie R. Beeren\*

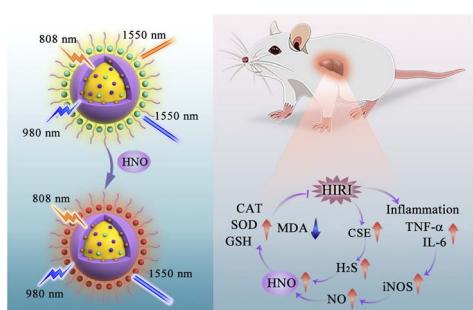
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**Optimizing the number of measurements for vibrational structure on quantum computers: coordinates and measurement schemes**

Marco Majland,\* Rasmus Berg Jensen, Mads Greisen Højlund, Nikolaj Thomas Zinner and Ove Christiansen\*

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**Revealing the role of nitroxyl during hepatic ischemia-reperfusion injury with a NIR-II luminescent nanoprobe**

Chenchen Li, Wenqiang Bi, Tao Liang, Zhen Li\* and Zhihong Liu\*

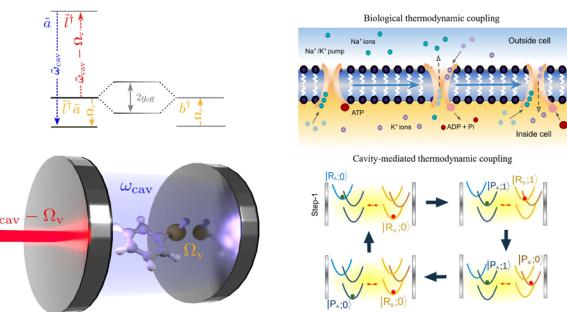


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**A path towards single molecule vibrational strong coupling in a Fabry-Pérot microcavity**

Arghadip Koner, Matthew Du, Sindhana Pannir-Sivajothi, Randall H. Goldsmith and Joel Yuen-Zhou\*



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**Metal-organic framework (MOF) hybridized gold nanoparticles as a bifunctional nanozyme for glucose sensing**

Pei-Hong Tong, Jing-Jing Wang, Xi-Le Hu, Tony D. James\* and Xiao-Peng He\*

