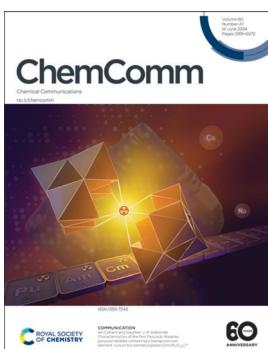


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#### Cover

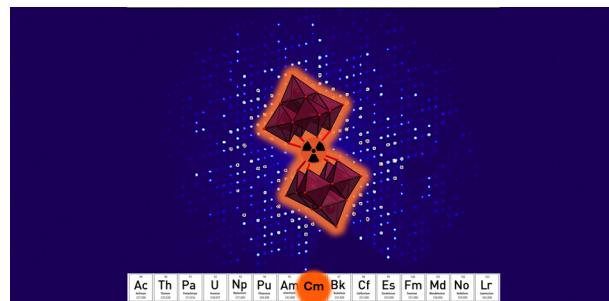
See Ian Colliard and Gauthier J.-P. Deblonde, pp. 5999–6002.  
Image reproduced by permission of Eric Brian Smith from *Chem. Commun.*, 2024, 60, 5999.

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5999

#### Characterization of the first Peacock–Weakley polyoxometalate containing a transplutonium element: curium bis-pentatungstate $[Cm(W_5O_{18})_2]^{9-}$

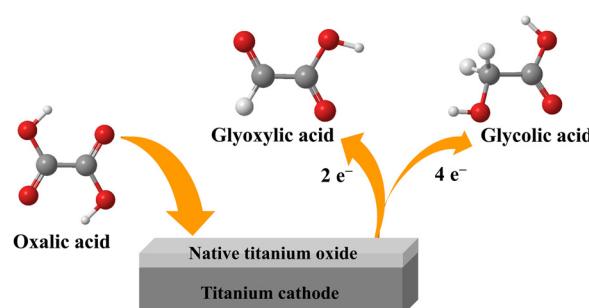
Ian Colliard\* and Gauthier J.-P. Deblonde\*



6003

#### Evaluating the native oxide of titanium as an electrocatalyst for oxalic acid reduction

Halilu Sale, Zeliha Ertekin, Paula L. Lalaguna, Malcolm Kadodwala and Mark D. Symes\*



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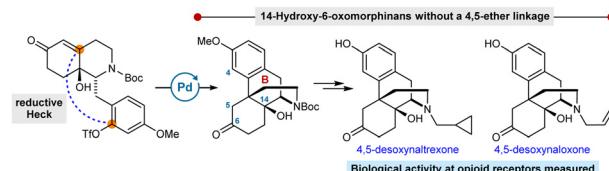


## COMMUNICATIONS

6007

**Enantioselective *de novo* synthesis of 14-hydroxy-6-oxomorphinans**

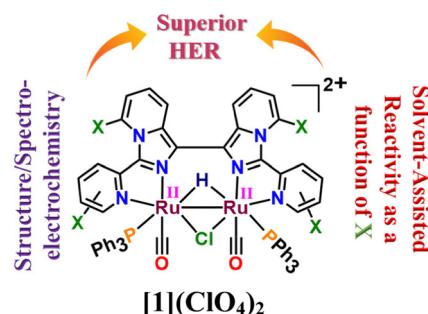
Jonathan C. Moore, Louis Modell, Jacqueline R. Glenn, Kieran D. Jones, Stephen P. Argent, J. Robert Lane, Meritxell Canals and Hon Wai Lam\*



6011

**Superior electrocatalytic hydrogen evolution activity of a triply bridged diruthenium(II) complex on a carbon cloth support**

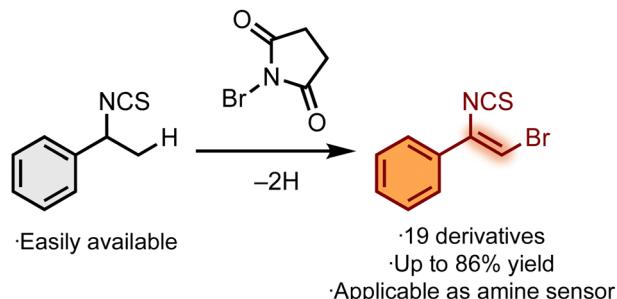
Yogita Arya, Toufik Ansari, Sudip Kumar Bera, Sanjib Panda, Arindam Indra\* and Goutam Kumar Lahiri\*



6015

**Synthesis of *N*- $\beta$ -brominated alkenyl isothiocyanates via dehydrogenation of alkyl isothiocyanates**

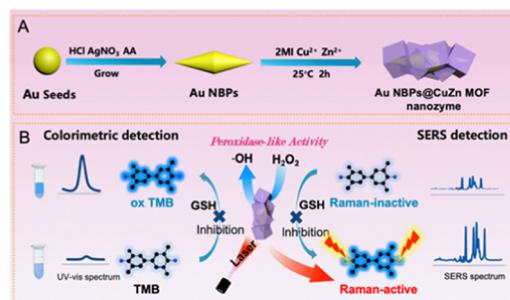
Bumpei Maeda, Ryohei Akiyoshi, Daisuke Tanaka, Kohei Sato and Kei Murakami\*



6019

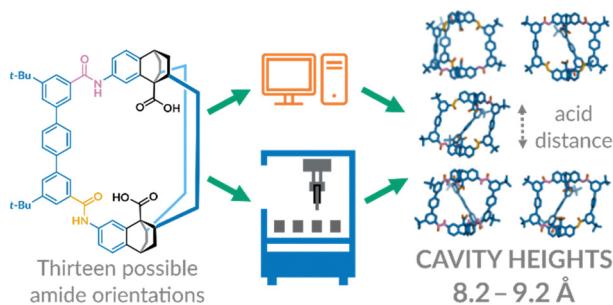
**An Au bipyramids@CuZn MOF core–shell nanzyme enables universal SERS and a colorimetric dual-model bioassay**

Mengdi Wang, Feng Shi, Jiayin Li, Lingfeng Min,\* Zhanjun Yang\* and Juan Li\*



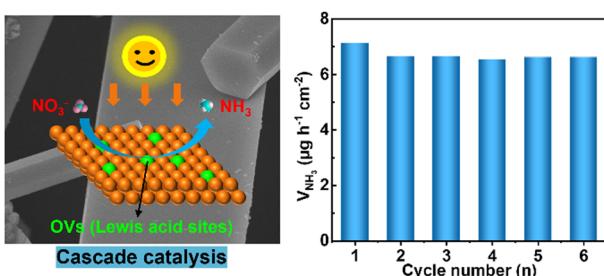
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6023

**Exploration of the polymorphic solid-state landscape of an amide-linked organic cage using computation and automation**

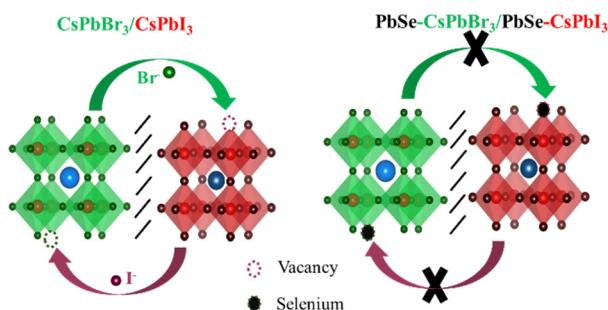
C. E. Shields, T. Fellowes, A. G. Slater, A. I. Cooper, K. G. Andrews\* and F. T. Szczypliński\*

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**Understanding the cascade heterojunction of CuPc/Bi-MOF for photoelectrochemical nitrate reduction**

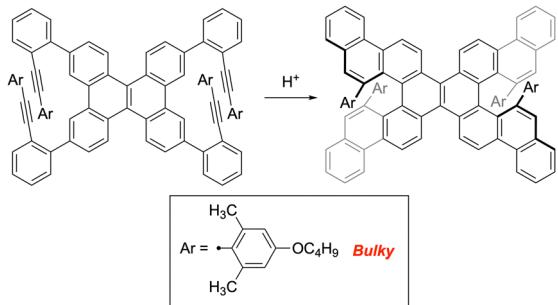
Yajie Bai, Zhenyuan Fang, Meiqi Zhai, Xianlei Jiang, Jianming Li,\* Hongye Bai\* and Weiqiang Fan\*

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**Prevention of ion migration in lead halide perovskites upon plugging the anion vacancies with PbSe islands**

Swati Khurana, Priyesh Yadav, Priyadharsini Natesan, Md Samim Hassan, Deepak Kumar Pradhan and Sameer Sapra\*

6035

**Synthesis of sterically congested double helicene by alkyne cycloisomerization**

Junichiro Hirano, Sayaka Miyoshi, Eiji Yashima, Tomoyuki Ikai, Hiroshi Shinokubo and Norihito Fukui\*

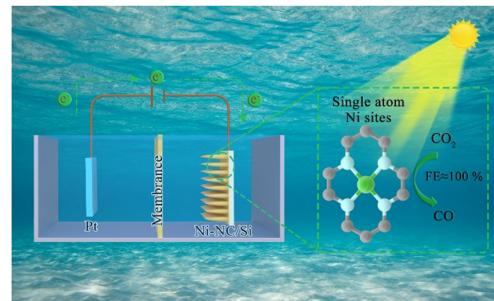


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6039

**Single-atom nickel sites boosting Si nanowires for photoelectrocatalytic CO<sub>2</sub> conversion with nearly 100% selectivity**

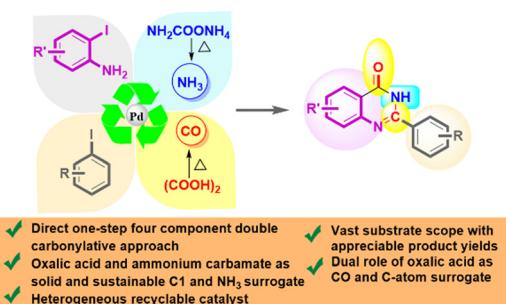
Jihu Kang, Wenhao He, Keke Wang, Yuanyuan Chen, Yang Liu, Ya Li\* and Wenzhang Li\*



6043

**Oxalic acid as a dual C1 surrogate for heterogeneous palladium-catalyzed tandem four-component quinazolinone synthesis**

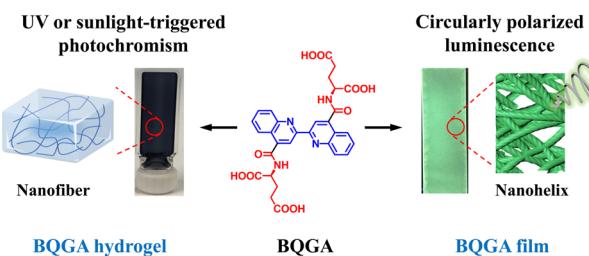
Sheetal, Poonam Sharma, Ashish Kumar, Navneet Sharma, Kousik Giri and Pralay Das\*



6047

**Aggregate-state-dependent photochromism and circularly polarized luminescence of a chiral biquinoline amphiphile**

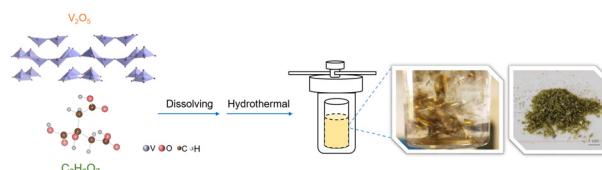
Chenyang Zhao, Zujian Li, Lukang Ji, Hanxiao Wang, Guanghui Ouyang\* and Minghua Liu



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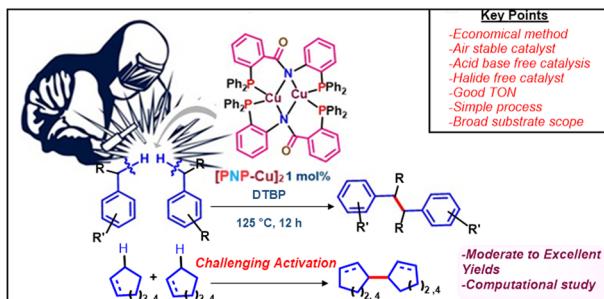
**Large scale and oxygen vacancy VO<sub>2</sub> porous thin sheets to enable high-performance zinc ion storage**

Qingqing He, Yanxin Liao, Mengda Xue, Huayu Wang, Jie Bai and Lingyun Chen\*



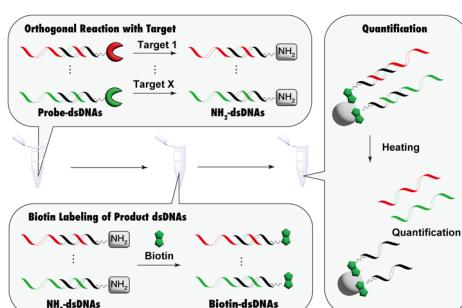
## COMMUNICATIONS

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**Cu<sup>I</sup>-amidobis(phosphine) catalyzed C(sp<sup>3</sup>)–C(sp<sup>3</sup>) direct homo- and hetero-coupling of unactivated alkanes via C(sp<sup>3</sup>)–H activation**

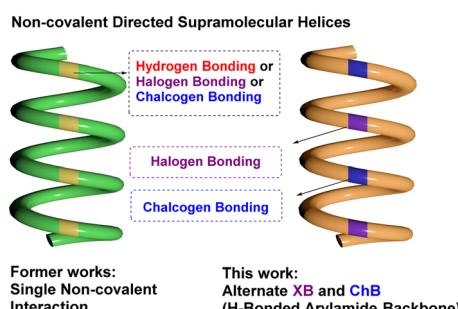
Sachin C. Sonawane, Rani Gourkhede, Prateek Saini, Srinivasan Ramakrishnan\* and Maravanji S. Balakrishna\*

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**A detection system using sensing motif-tethered oligodeoxynucleotides for multiplex biomolecular analysis**

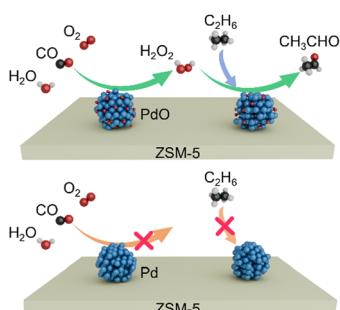
Tatsuya Nishihara,\* Yuto Motohashi, Reoto Mio, Masato Sugawara and Kazuhito Tanabe\*

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**Multiple non-covalent-interaction-directed supramolecular double helices: the orthogonality of hydrogen, halogen and chalcogen bonding**

Chuan-Zhi Liu,\* Chi Zhang, Zhong-Yi Li, Jiale Chen, Tonglu Wang, Xiang-Kun Zhang, Meng Yan and Bin Zhai\*

6067

**Enabling direct oxidation of ethane to acetaldehyde with oxygen using supported PdO nanoparticles**

Jiajie Ye, Shoujie Zhang, Yanglong Guo, Wangcheng Zhan, Li Wang, Sheng Dai, Xuan Tang\* and Yun Guo\*

