

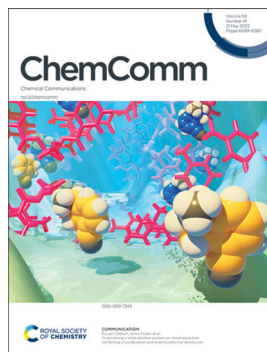
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### Inside cover

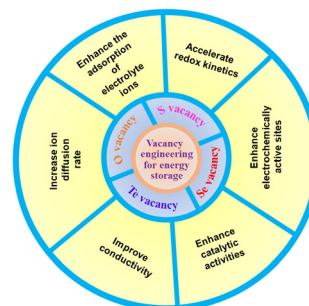
See Ryusei Oketani, Ichiro Hisaki *et al.*, pp. 6175–6178. Image reproduced by permission of Ryusei Oketani from *Chem. Commun.*, 2023, 59, 6175.

## HIGHLIGHTS

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### Vacancy designed 2D materials for electrodes in energy storage devices

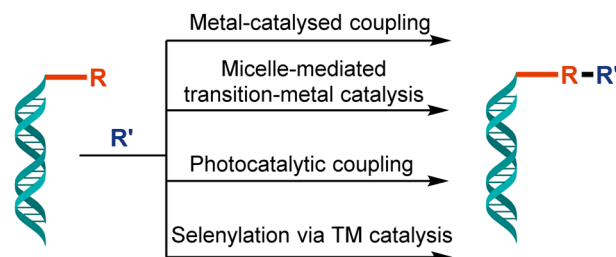
Rajesh Kumar,\* Sumanta Sahoo,\* Ednan Joanni, Raghvendra Pandey and Jae-Jin Shim\*



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Rajesh Sahu, Saurav Yadav, Suvadeep Nath, Joydeep Banerjee and Anant R. Kapdi\*



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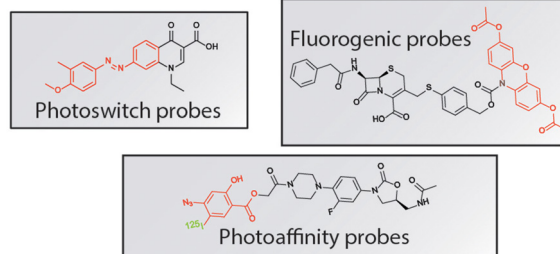
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## Exploring antibiotic resistance with chemical tools

Willem A. Velema

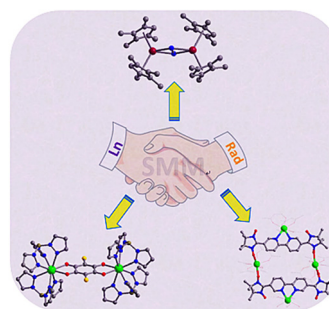
## Exploring Antibiotic Resistance



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## Lanthanide–radical single-molecule magnets: current status and future challenges

Hong-Dao Li, Si-Guo Wu\* and Ming-Liang Tong\*

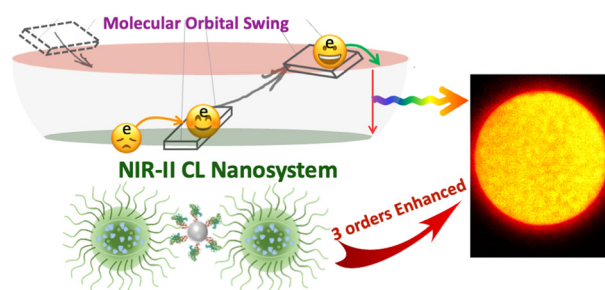


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Single-dye NIR-II chemiluminescence system for  $\text{H}_2\text{O}_2$  imaging

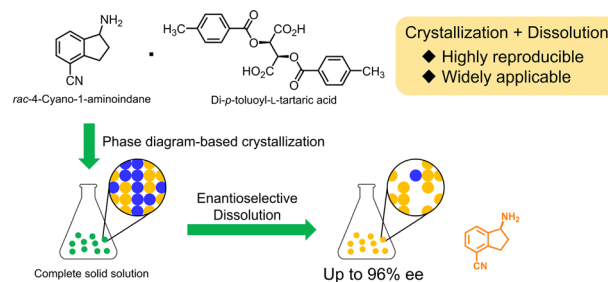
Zong Chang, Chenchen Liu, Like Guo, Bingxin Shu, Huageng Liang,\* Jie Ding,\* Xiaoping Zhang\* and Qinchao Sun\*



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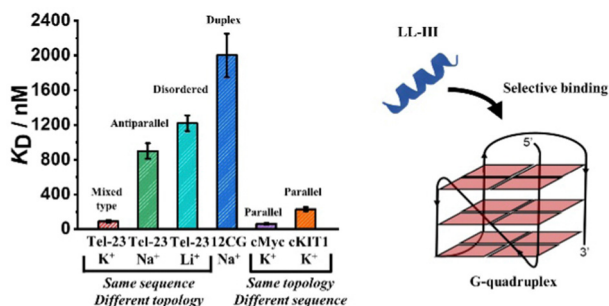
## Overcoming a solid solution system on chiral resolution: combining crystallization and enantioselective dissolution

Ryusei Oketani,\* Koki Shiohara and Ichiro Hisaki\*



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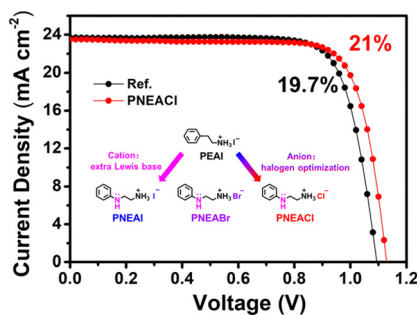
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### The anticancer peptide LL-III binds with nanomolar affinity to human telomeric and cMyc G-quadruplexes

Marco Campanile, Rosario Oliva, Pompea Del Vecchio, Roland Winter and Luigi Petraccone\*

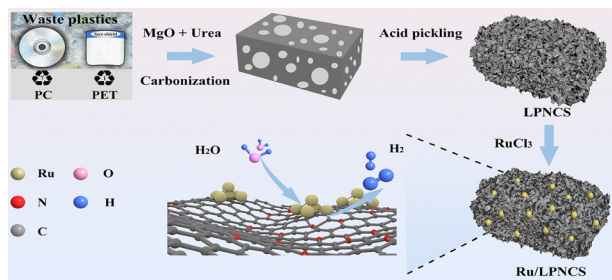
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### Cation and anion optimization of ammonium halide for interfacial passivation of inverted perovskite solar cells

Hao Wu, Xinxing Yin,\* Lei Lu, Jiaxing Song, Lin Hu, Yingzhi Jin, Zhen Su, Jiefeng Hai\* and Zaifang Li\*

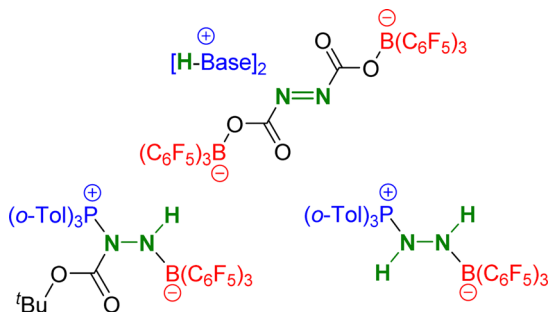
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Chao Juan, Bing Lan, Chuanchuan Zhao, Hualong Zhang, Dan Li\* and Fan Zhang\*

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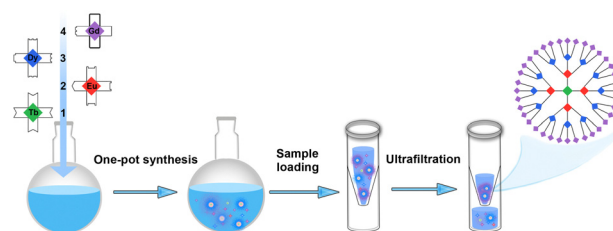


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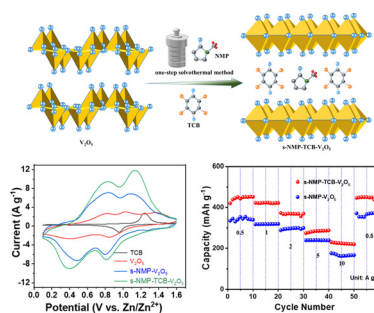
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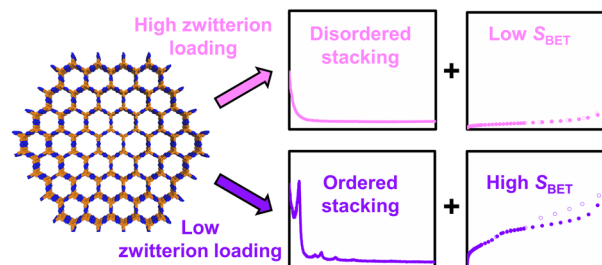
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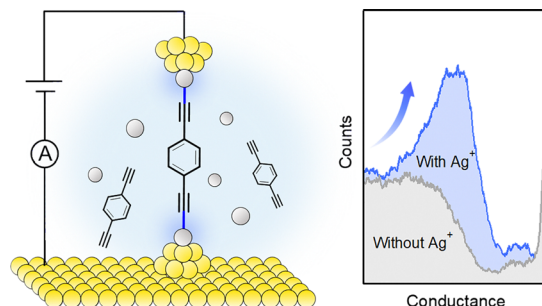
Alexander K. Oanta, Chloe E. Pelkowski, Michael J. Strauss and William R. Dichtel\*



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### Formation of covalent metal–carbon contacts assisted by $Ag^+$ for single molecule junctions

Kai Song, Junfeng Lin, Xuwei Song, Bowen Yang, Jia Zhu,\* Yaping Zang\* and Daoben Zhu



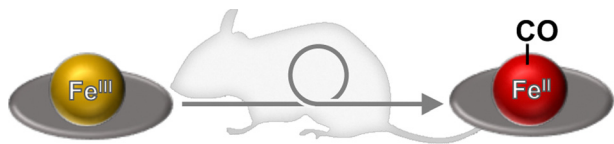


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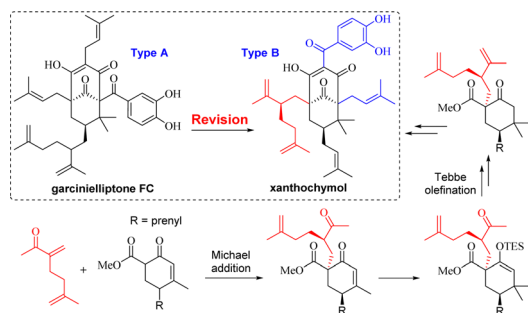
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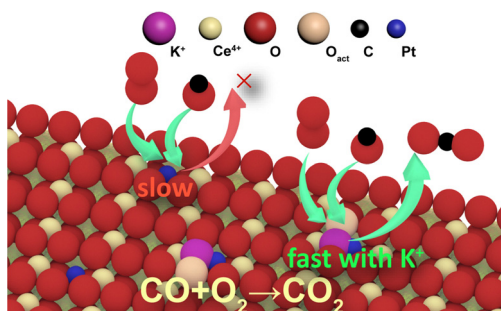
Yang Luo, Robert B. Grossman, Xiao-Bin Nie and Xing-Wei Yang\*



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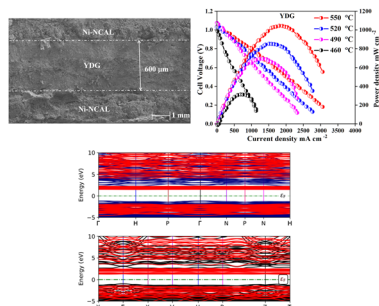
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Junjiao Li, Muhammad Yousaf, Muhammad Akbar, Asma Noor, Hu Enyi, M.A.K Yousaf Shah, Qadeer Akbar Sial, Naveed Mushtaq and Yuzheng Lu\*

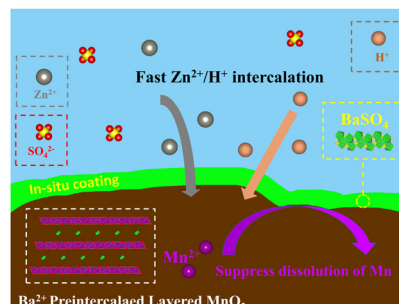


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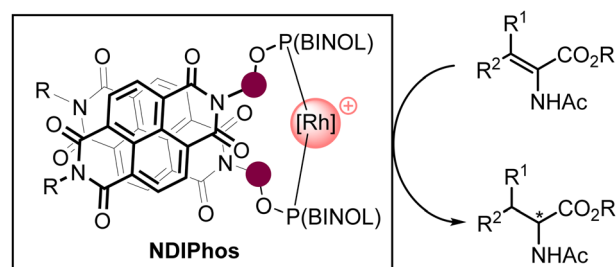
Lele Liu, Shouxiang Ding, Lu Yao, Mingqiang Liu, Shunning Li, Qinghe Zhao,\* Runzhi Qin\* and Feng Pan\*



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**NDIPhos as a platform for chiral supramolecular ligands in rhodium-catalyzed enantioselective hydrogenation**

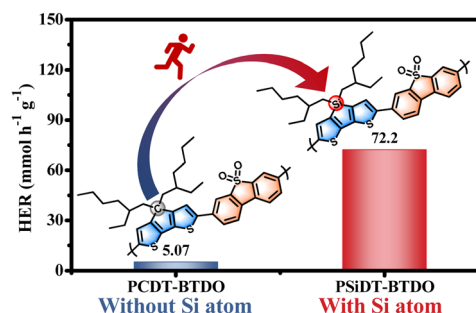
Guillaume Force, Robert J. Mayer, Marie Vayer and David Leboeuf\*



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**An efficient electron donor containing a silicon heteroatom for organic photocatalysts with high hydrogen production activity**

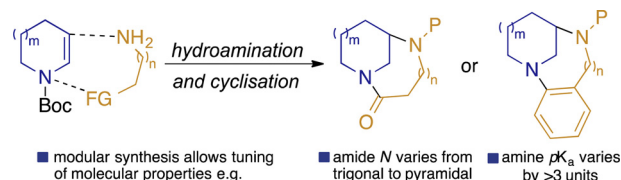
Changzhi Han, Sihui Xiang, Xiaolong Feng, Pengchao Zhang, Yi Ren, Chong Zhang,\* Xiaochen Wang\* and Jia-Xing Jiang\*



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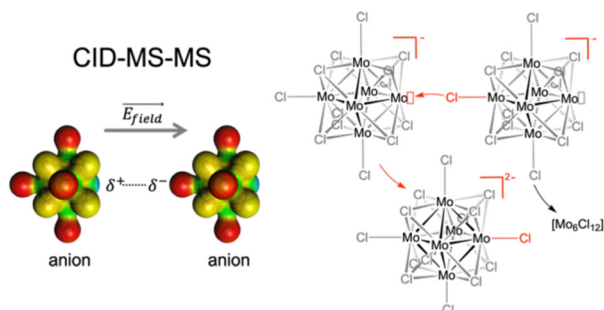
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Alexandra Hindle, Krzysztof Baj, Jonathan A. Iggo, Daniel J. Cox, Christopher M. Pask, Adam Nelson\* and Stephen P. Marsden\*



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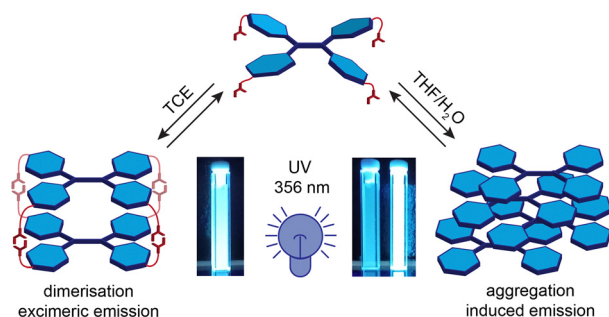
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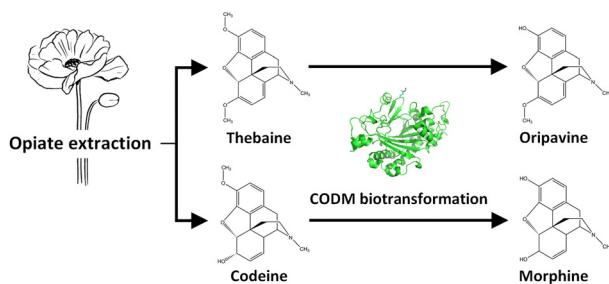
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Anna Brzechwa-Chodzyńska, Grzegorz Markiewicz, Piotr Cecot, Jack Harrowfield and Artur R. Stefankiewicz\*

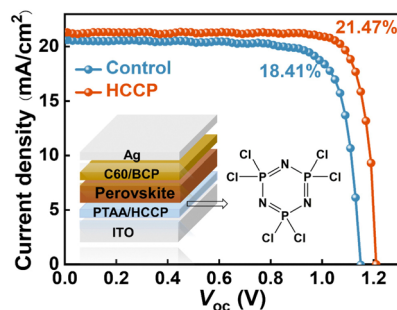
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Garrick W. K. Spencer, Xu Li, Ailsa Jarrold and Sally L. Gras\*

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Ruyue Wang, Minghua Li, Zongwen Ma, Zhangwei He, Yiman Dong, Yuling Zhang, Zhiyang Xu, Gangfeng Su and Zhan'ao Tan\*

