

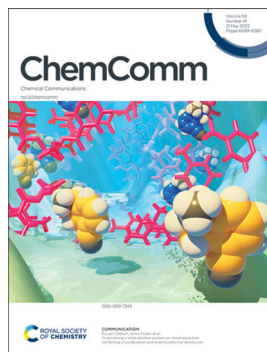
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See Huageng Liang, Jie Ding, Xiaoping Zhang, Qinchao Sun *et al.*, pp. 6171–6174. Image reproduced by permission of Qinchao Sun from *Chem. Commun.*, 2023, 59, 6171.



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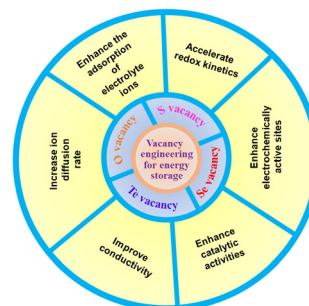
See Ryusei Oketani, Ichiro Hisaki *et al.*, pp. 6175–6178. Image reproduced by permission of Ryusei Oketani from *Chem. Commun.*, 2023, 59, 6175.

HIGHLIGHTS

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Vacancy designed 2D materials for electrodes in energy storage devices

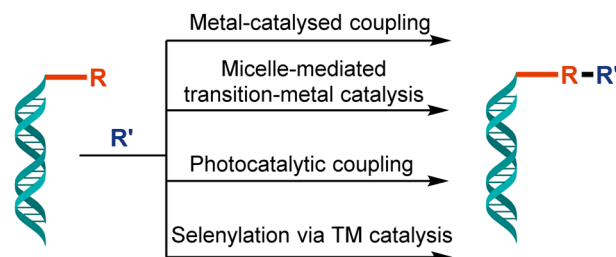
Rajesh Kumar,* Sumanta Sahoo,* Ednan Joanni, Raghvendra Pandey and Jae-Jin Shim*



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DNA-encoded libraries *via* late-stage functionalization strategies: a review

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



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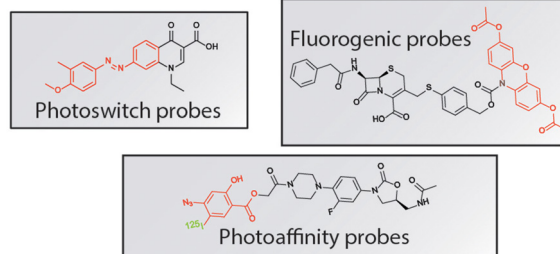
FEATURE ARTICLES

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Exploring antibiotic resistance with chemical tools

Willem A. Velema

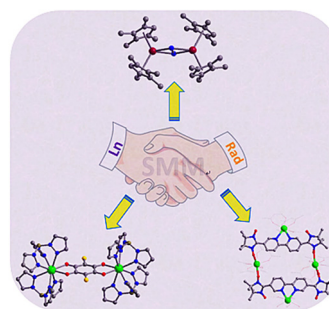
Exploring Antibiotic Resistance



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

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

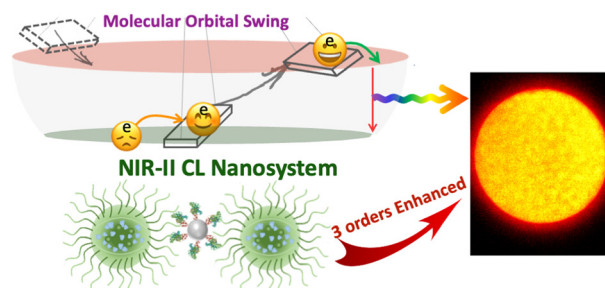


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Single-dye NIR-II chemiluminescence system for H_2O_2 imaging

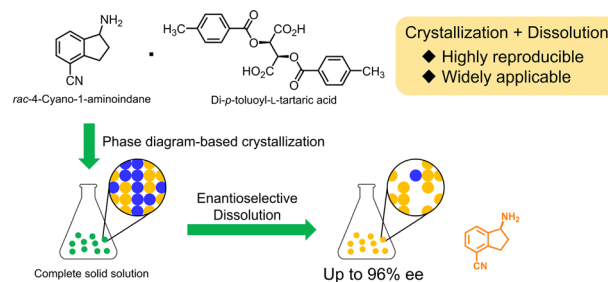
Zong Chang, Chenchen Liu, Like Guo, Bingxin Shu, Huageng Liang,* Jie Ding,* Xiaoping Zhang* and Qinchao Sun*



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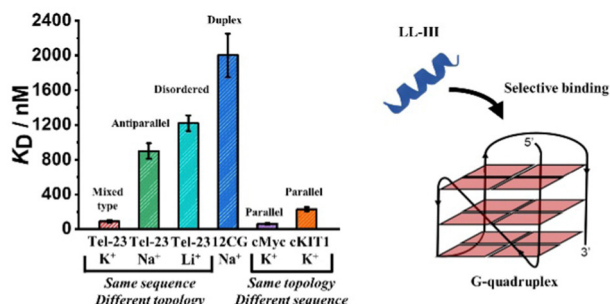
Overcoming a solid solution system on chiral resolution: combining crystallization and enantioselective dissolution

Ryusei Oketani,* Koki Shiohara and Ichiro Hisaki*



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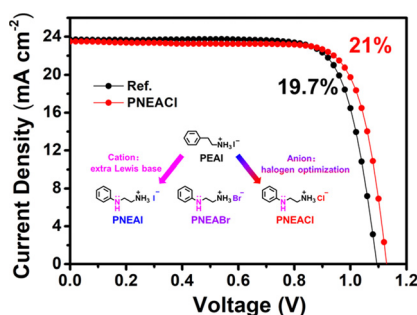
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The anticancer peptide LL-III binds with nanomolar affinity to human telomeric and cMyc G-quadruplexes

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

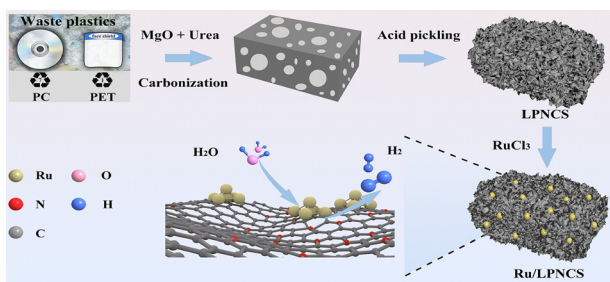
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Cation and anion optimization of ammonium halide for interfacial passivation of inverted perovskite solar cells

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

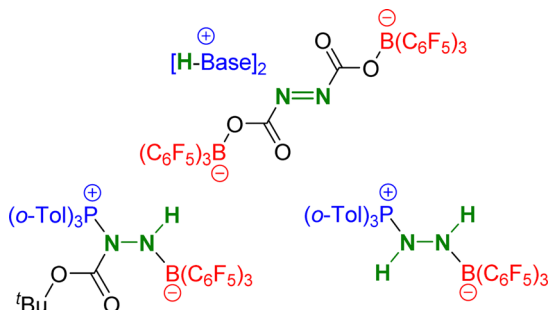
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From waste plastics to layered porous nitrogen-doped carbon materials with excellent HER performance

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

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Zahid Hussain, Yong-An Luo, Yile Wu,* Zheng-Wang Qu,* Stefan Grimme and Douglas W. Stephan*

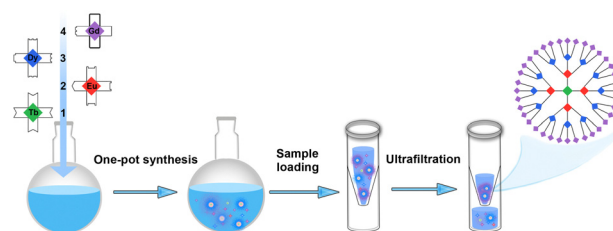


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Constructing sequence-controlled heterolayered dendritic lanthanide chelates *via* a one-pot strategy using orthogonal chemistry

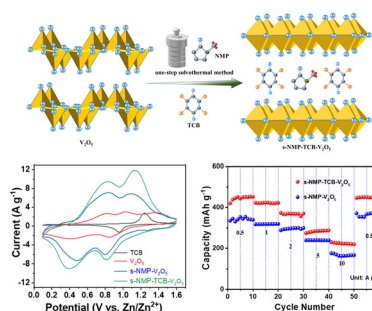
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N-Methylpyrrolidone assisted tetrachlorobenzoquinone intercalating V_2O_5 as cathode for aqueous zinc-ion battery

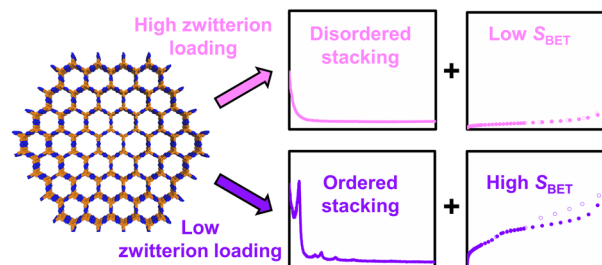
Yuanhao Xia, Xinlei Wang and Jie Zhou*



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Competition between side-chain interactions dictates 2D polymer stacking order

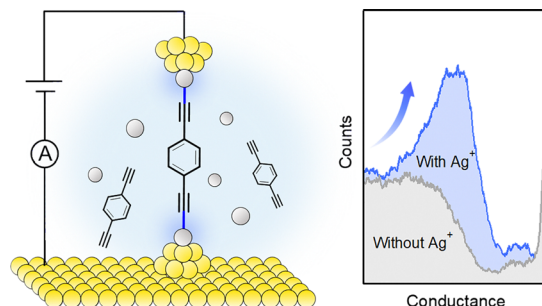
Alexander K. Oanta, Chloe E. Pelkowski, Michael J. Strauss and William R. Dichtel*



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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

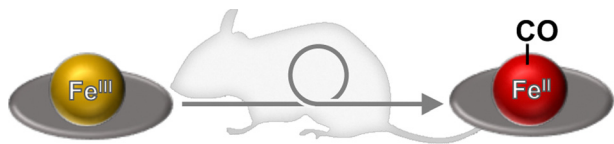


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Spontaneous reduction of iron(III)porphyrin to iron(II)porphyrin–CO complex in mouse circulation

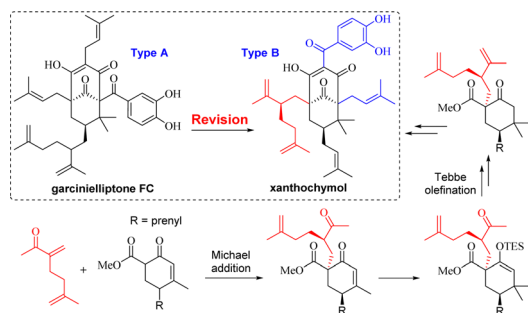
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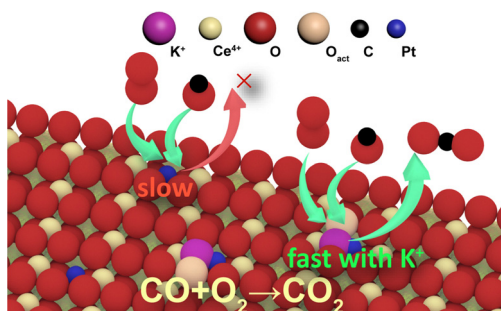
Yang Luo, Robert B. Grossman, Xiao-Bin Nie and Xing-Wei Yang*



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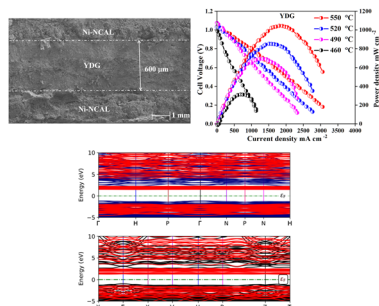
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Junjiao Li, Muhammad Yousaf, Muhammad Akbar, Asma Noor, Hu Enyi, M.A.K Yousaf Shah, Qadeer Akbar Sial, Naveed Mushtaq and Yuzheng Lu*

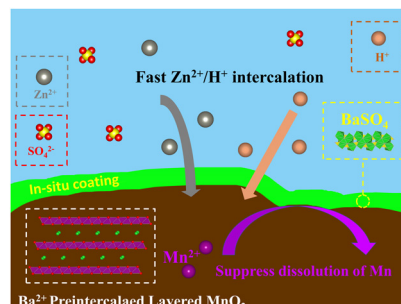


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***In situ* BaSO₄ coating enabled activation-free and ultra-stable δ-MnO₂ for aqueous Zn-ion batteries**

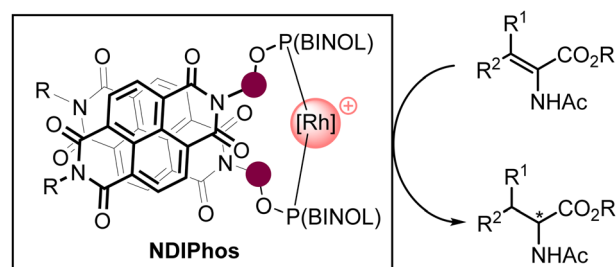
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NDIPhos as a platform for chiral supramolecular ligands in rhodium-catalyzed enantioselective hydrogenation

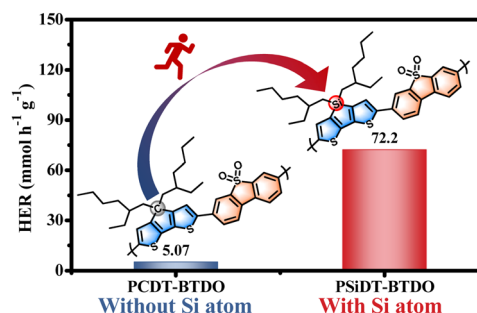
Guillaume Force, Robert J. Mayer, Marie Vayer and David Leboeuf*



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

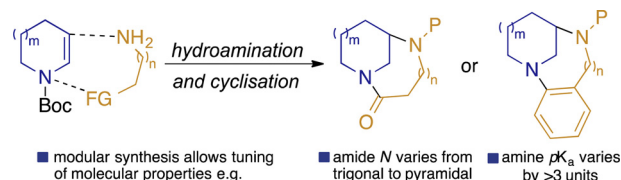
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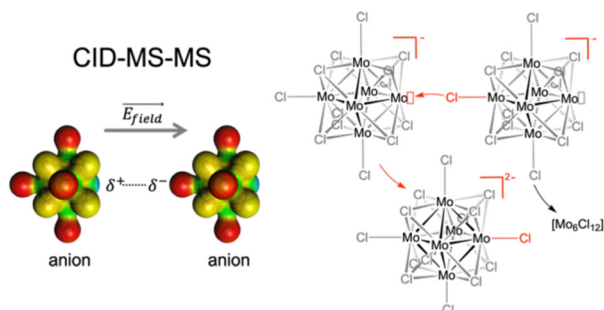
Modular synthesis of bicyclic twisted amides and anilines

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



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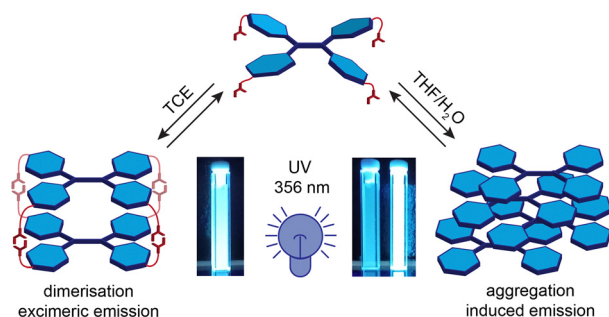
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Electrophilic and nucleophilic gas phase reactivity of the Janus cluster-based anions $[\{\text{Mo}_6\text{Cl}_8\}\text{Cl}_5\text{□}]^-$ (□ = lacuna)

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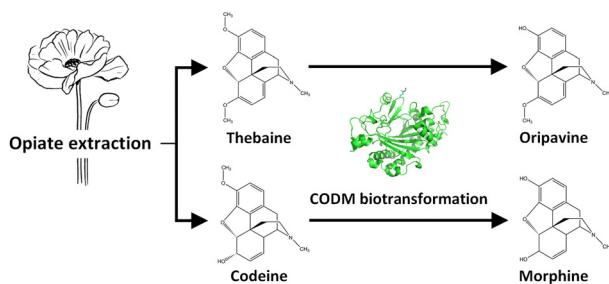
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Self-assembly of a fluorescent hydrogen-bonded capsule based on an amino-acid functionalised tetraphenylethylene

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

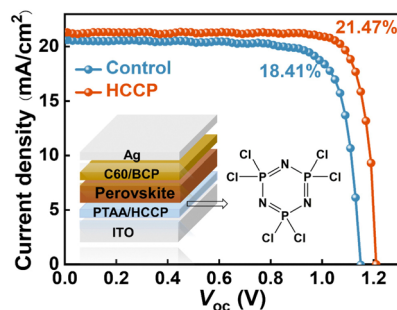
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An industrially applicable *Escherichia coli* platform for bioconversion of thebaine to oripavine and codeine to morphine

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*

