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IN THIS ISSUE

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Cover

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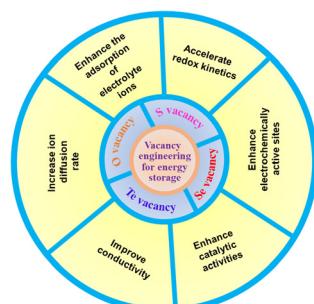
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HIGHLIGHTS

6109

Vacancy designed 2D materials for electrodes in energy storage devices

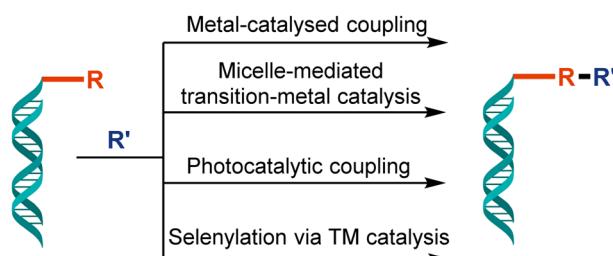
Rajesh Kumar,* Sumanta Sahoo,* Ednan Joanni,
Raghvendra Pandey and Jae-Jin Shim*



6128

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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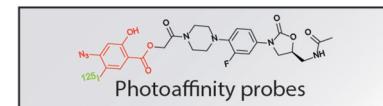
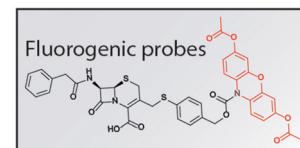
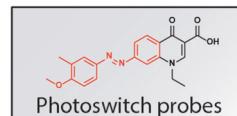
FEATURE ARTICLES

6148

Exploring antibiotic resistance with chemical tools

Willem A. Velema

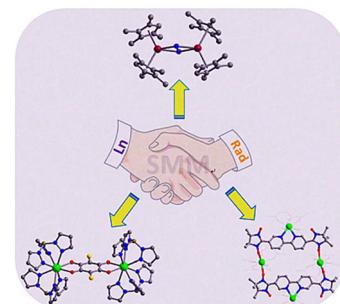
Exploring Antibiotic Resistance



6159

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

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

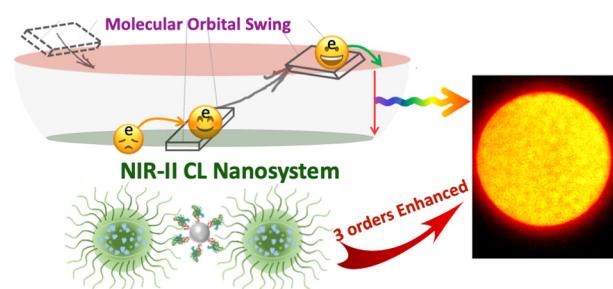


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6171

Single-dye NIR-II chemiluminescence system for H_2O_2 imaging

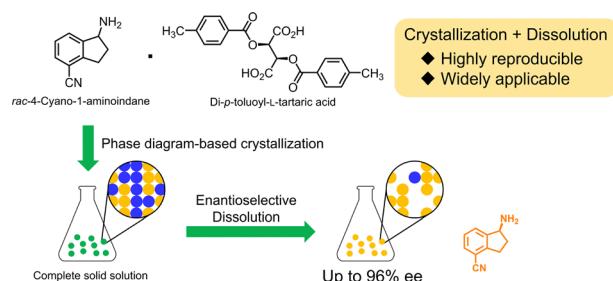
Zong Chang, Chenchen Liu, Like Guo, Bingxin Shu, Huageng Liang,* Jie Ding,* Xiaoping Zhang* and Qinchao Sun*



6175

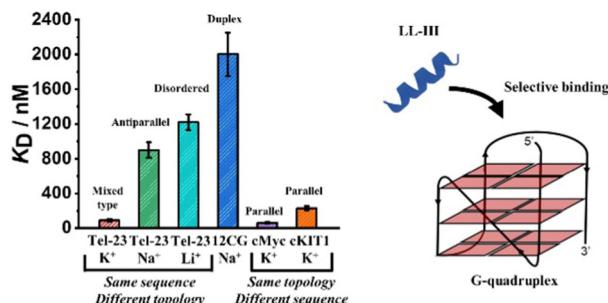
Overcoming a solid solution system on chiral resolution: combining crystallization and enantioselective dissolution

Ryusei Oketani,* Koki Shiohara and Ichiro Hisaki*



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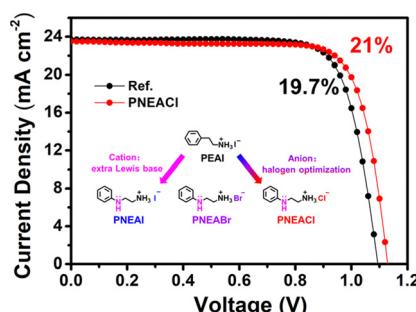
6179



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*

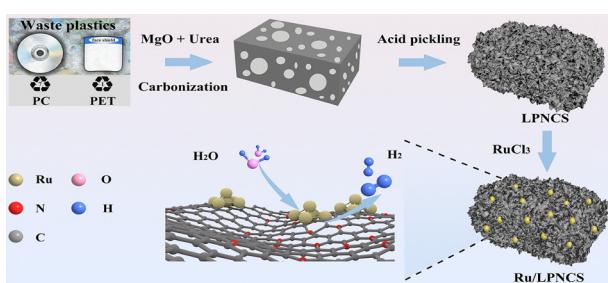
6183



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*

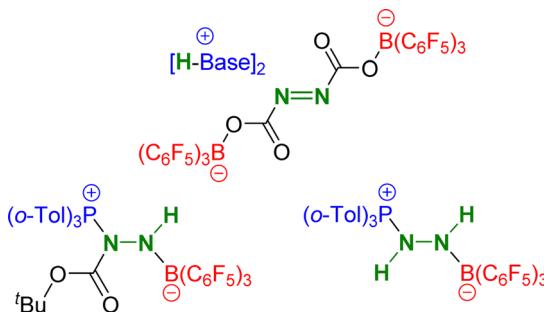
6187



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*

6191



Reactivity of frustrated Lewis pairs with BOC protected diazocarboxylates: FLP capture of diazene

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

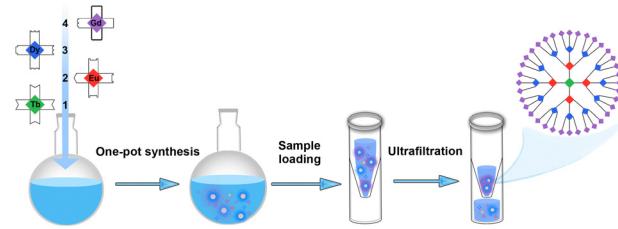


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6195

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

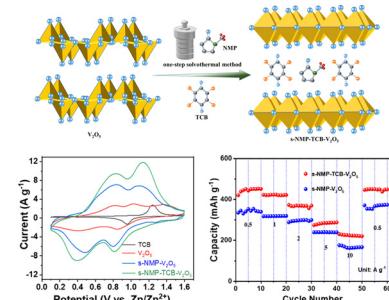
Zhaoxuan Yang, Haojin Lin, Yaying Lin, Jinzhi Wang, Yifan Bu, Hongyu Lin* and Jinhao Gao*



6199

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

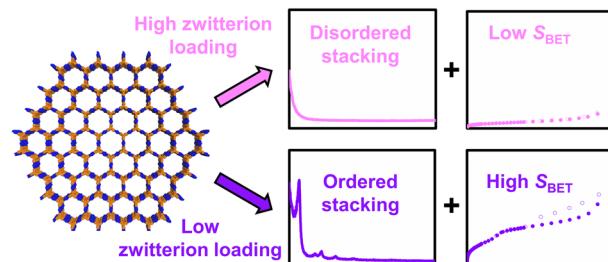
Yuanhao Xia, Xinlei Wang and Jie Zhou*



6203

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

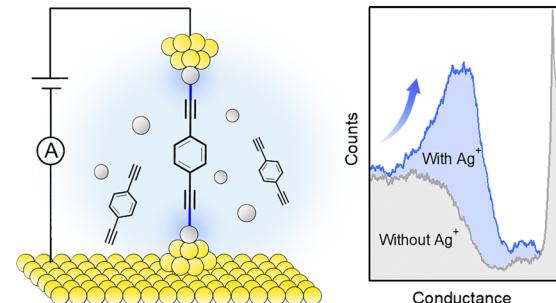
Alexander K. Oanta, Chloe E. Pelkowski, Michael J. Strauss and William R. Dichtel*



6207

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

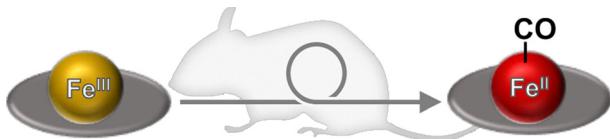


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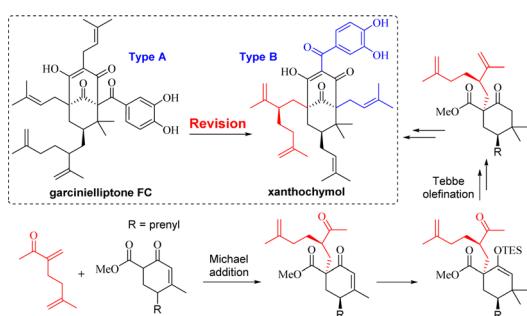
6211

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

Masataka Noguchi, Qiyue Mao, Atsuki Nakagami and Hiroaki Kitagishi*



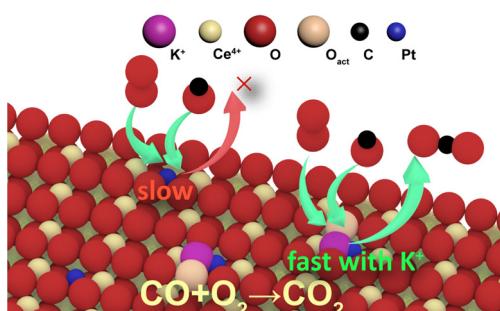
6215



Total synthesis and structural reassignment of garcinielliptone FC, a polycyclic polyphenylated acylphloroglucinol with diverse bioactivity

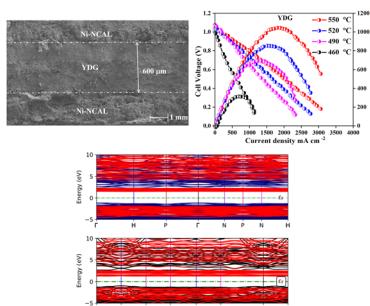
Yang Luo, Robert B. Grossman, Xiao-Bin Nie and Xing-Wei Yang*

6219

Regulating the Pt₁–CeO₂ interaction *via* alkali modification for boosting the catalytic performance of single-atom catalysts

Peng Yang, Juntian Xu, Wei Tan, Qinglong Liu, Yandi Cai, Shaohua Xie, Song Hong, Fei Gao,* Fudong Liu and Lin Dong

6223



High-performing and stable semiconductor yttrium-doped gadolinium electrolyte for low-temperature solid oxide fuel cells

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

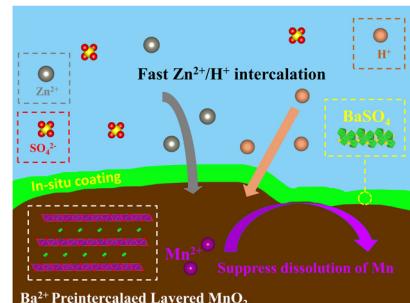


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6227

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

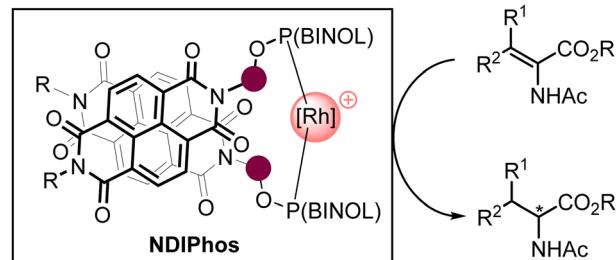
Lele Liu, Shouxiang Ding, Lu Yao, Mingqiang Liu, Shunning Li, Qinghe Zhao,* Runzhi Qin* and Feng Pan*



6231

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

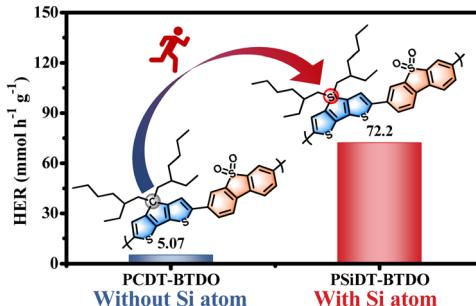
Guillaume Force, Robert J. Mayer, Marie Vayer and David Lebœuf*



6235

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

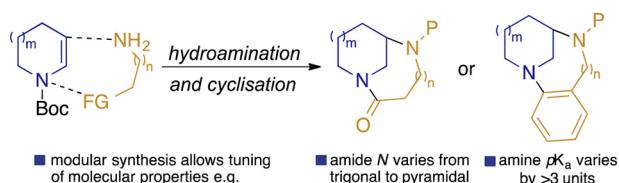
Changzhi Han, Sihui Xiang, Xiaolong Feng, Pengchao Zhang, Yi Ren, Chong Zhang,* Xiaochen Wang* and Jia-Xing Jiang*



6239

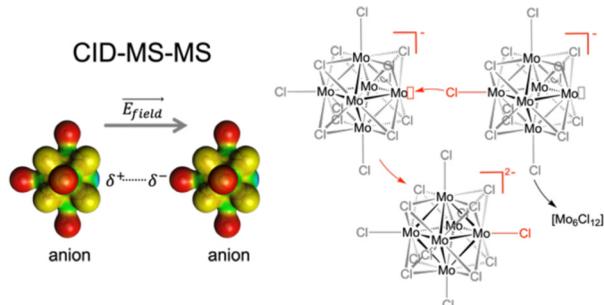
Modular synthesis of bicyclic twisted amides and anilines

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



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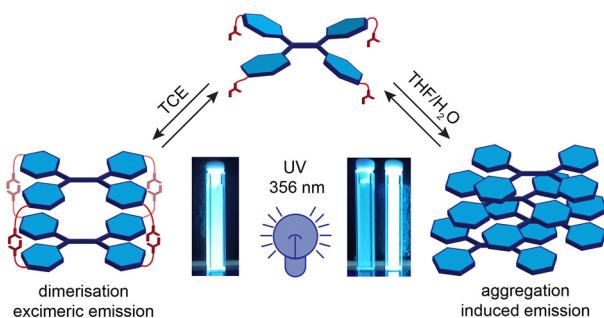
6243



Electrophilic and nucleophilic gas phase reactivity of the Janus cluster-based anions $\{Mo_6Cl_8\}Cl_5\Box^-$ (\Box = lacuna)

Antoine Denis, Nina Tymińska, Thomas Delhaye, Yann Molard, Pascal Gerbaux, Julien De Winter, Mohamed Himdi, Xavier Castel, Karine Costuas,* Stéphane Cordier* and David Rondeau*

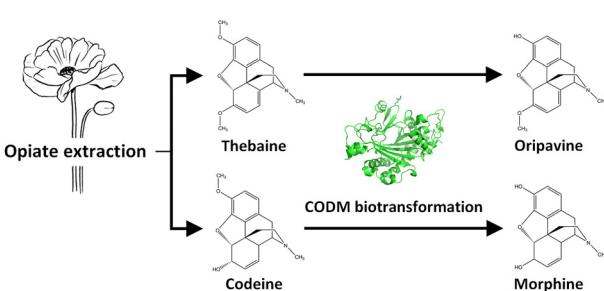
6247



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*

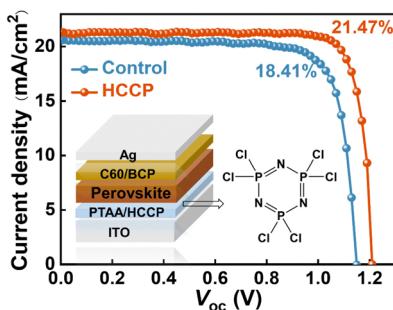
6251



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*

6255



Hexachlorotriphosphazene-assisted buried interface passivation for stable and efficient wide-bandgap perovskite solar cells

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

