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Cover

See Masahiro Goto *et al.*, pp. 4036–4039. Image reproduced by permission of Masahiro Goto from *Chem. Commun.*, 2024, 60, 4036.



Inside cover

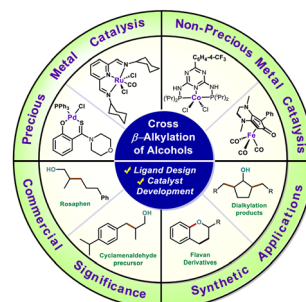
See Bright U. Emenike *et al.*, pp. 4040–4043. Image partly generated by Adobe Firefly. Image reproduced by permission of Bright Emenike from *Chem. Commun.*, 2024, 60, 4040.

FEATURE ARTICLES

4002

Recent advances in cross-coupling of alcohols *via* borrowing hydrogen catalysis

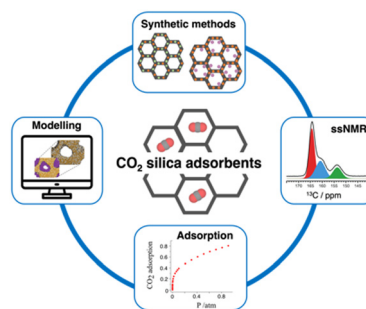
Suteerna Mullick, Adrija Ghosh and Debasis Banerjee*



4015

Unravelling the structure of CO₂ in silica adsorbents: an NMR and computational perspective

Mariana Sardo, Tiago Morais, Márcio Soares, Ricardo Vieira, Marina Ilkaeva, Mirtha A. O. Lourenço, Ildefonso Marín-Montesinos and Luís Mafra*



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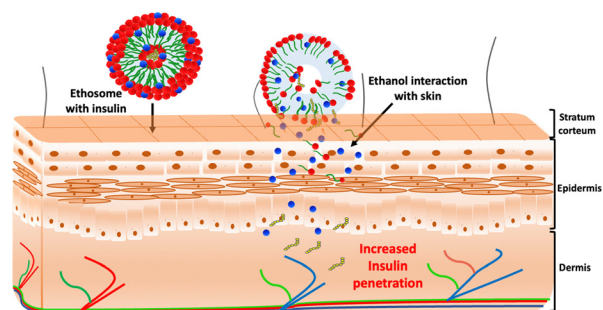


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4036

Ionic liquid-mediated ethosome for transdermal delivery of insulin

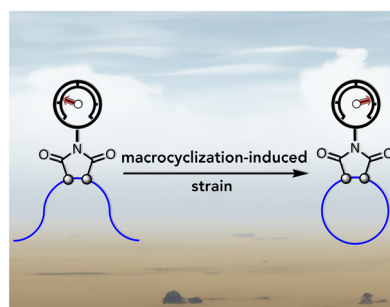
Fahmida Habib Nabila, Rashedul Islam, Islam Md Shimul, Muhammad Moniruzzaman, Rie Wakabayashi, Noriho Kamiya and Masahiro Goto*



4040

Quantifying macrocyclization-induced strain utilizing *N*-phenylimides as conformational reporters

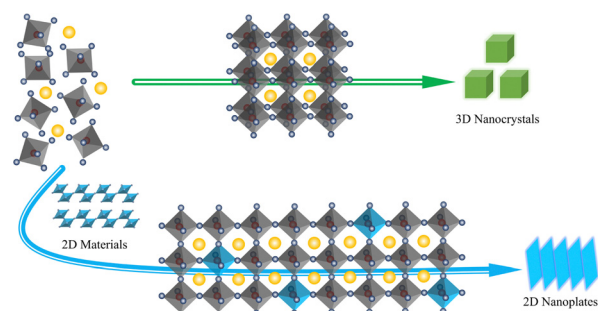
Bright U. Emenike,* David W. Shinn, Ronald A. Spinelle, Barney Yoo and Ambar M. Rosario



4044

Two-dimensional $\text{Cs}_3\text{Sb}_2\text{Br}_9$ inducing transformation of three-dimensional CsPbBr_3 to nanoplates

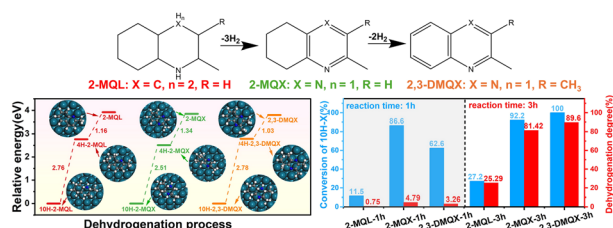
Wei Shen,* Jiayu Jiang, Yanxing He, Zhihua Chen, Yue Qiu, Hao Cui, Yanfeng Chen, Lihui Liu, Gang Cheng and Shufen Chen*



4048

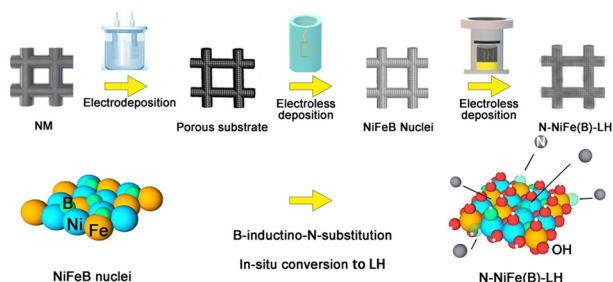
Strategic structure modulation of novel quinoxaline-derived liquid organic hydrogen carriers for enhanced dehydrogenation kinetics

Li Liu, Ting Zhu, Jiaqi Li, Can Wang, Yinheng Zhao, Ming Yang, Hansong Cheng and Yuan Dong*



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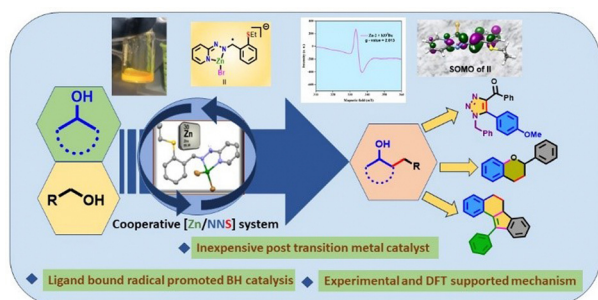
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A facile N-doped NiFe(B) (Oxy)hydroxide monolithic electrode for enhanced water oxidation

Yushu Li, Huizhen Han, Xiuhan Wang, Yu Sun, Yulian Zhao, Shiyi Tao, Aoxing Duan, Yi Ma,* Xin Bo* and Zenglin Wang*

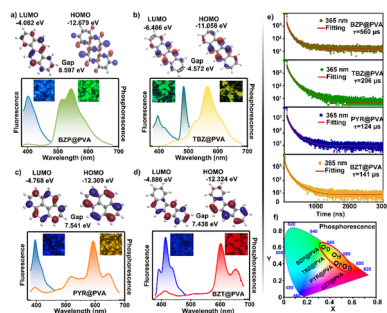
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Experimental and theoretical insights for designing Zn²⁺ complexes to trigger chemo-selective hetero-coupling of alcohols

Arup Samanta, Prativa Behera, Amit Chaubey, Avijit Mondal, Debjyoti Pal, Kailash Mohar, Lisa Roy* and Dipankar Srimani*

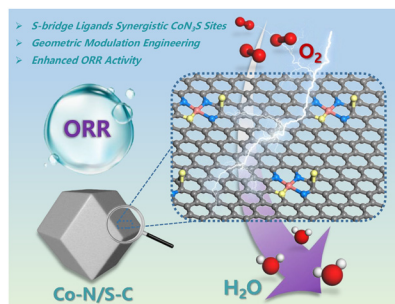
4060



Multi-colour room-temperature phosphorescence from fused-ring compounds for dynamic anti-counterfeiting applications

Tongyu He, Xueke Pang, Airui Jiang, Jiawei Zhang, Zhixia Feng, Wenxin Xu, Bin Song,* Mingyue Cui* and Yao He*

4064



Sulfur-bridge ligands altering the microenvironment of single-atom CoN₃S sites to boost the oxygen reduction reaction

Feng Liu, Yingchun Guo,* Yan Zhong, Jingsha Li, Heng Zhang, Lei Shi, Xuanni Lin, Fenghui Ye, Kai Ge, Shuai Yuan, Chuangang Hu* and Chunxian Guo*

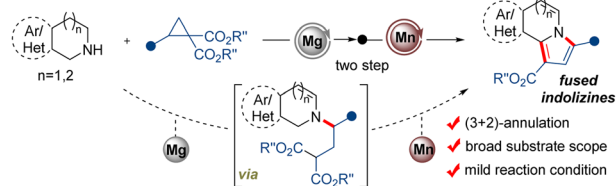


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One-pot C–N/C–C bond formation and oxidation of donor–acceptor cyclopropanes with tetrahydro-isoquinolines: access to benzo-fused indolizines

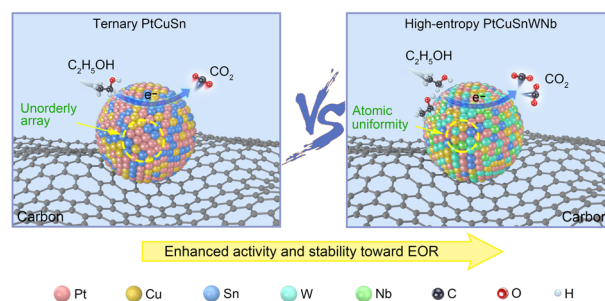
Pallab Karjee, Bijoy Debnath, Santu Mandal, Sharajit Saha and Tharmalingam Punniyamurthy*



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High-entropy PtCuSnWNB nanoalloys as efficient and stable catalysts for ethanol oxidation electrocatalysis

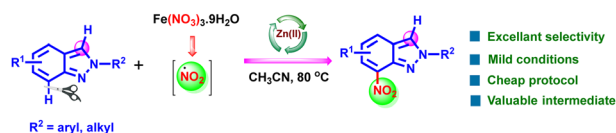
Yongying Wang, Zhengwei Zhang, Tiejun Hu, Juan Yang* and Yi Li*



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Site-selective direct nitration of 2H-indazoles: easy access to 7-nitroindazoles

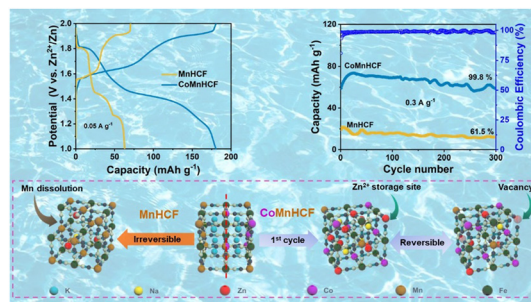
Suvam Bhattacharjee and Alakananda Hajra*



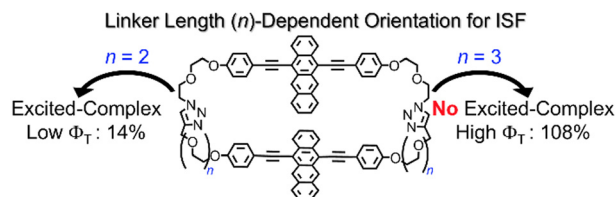
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In situ electrochemical Mn vacancies in CoMnHCF for a high level of zinc storage

Dan Wang, Ziyue Zhou, Tengfei Ma, Jinhua Zhang, Yunhe Zhang, Rui Ma, Dapeng Zhang* and Tingjiang Yan*



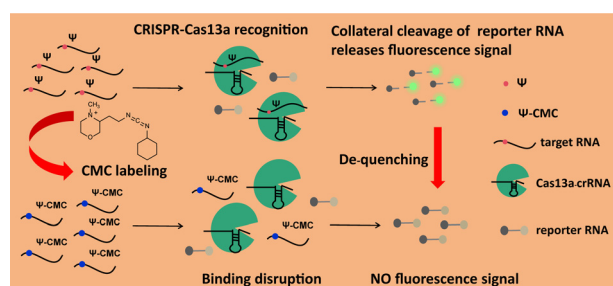
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Tetracene cyclophanes showing controlled intramolecular singlet fission by through-space orientations

Hayato Sakai, Keigo Nonaka, Ryo Hayasaka, Shakkeeb Thazhathethil, Yoshimitsu Sagara* and Taku Hasobe*

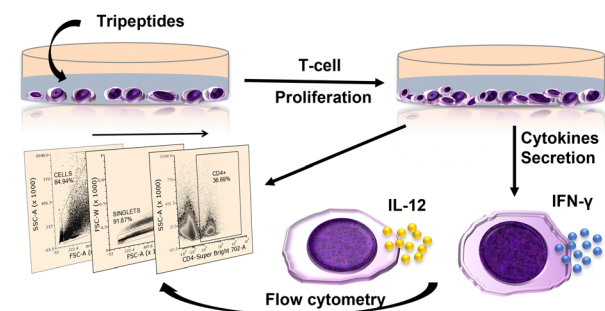
4088



Locus-specific detection of pseudouridine with CRISPR-Cas13a

Mei Sun, Xin Fang, Bingqian Lin, Jing Mo, Fang Wang, Xiang Zhou and Xiaocheng Weng*

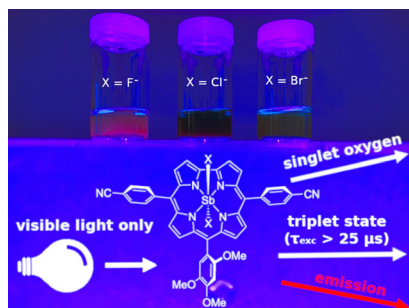
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Peptide-triggered IL-12 and IFN- γ mediated immune response in CD4⁺ T-cells against *Leishmania donovani* infection

Swati Sharma, Anshul Anand, Rajan Singh, Rakesh K. Singh* and Sandeep Verma*

4096



Sb(v) dihalide corroles: efficient singlet oxygen photosensitisers

Volkan Caliskanyürek, Simon Eulberg, Oliver Lange, Martin Bröring* and Stefanie Tschierlei*

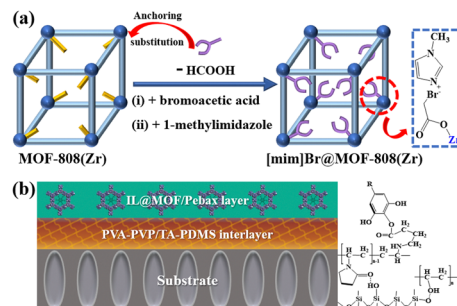


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Ionic-liquid-modified MOFs incorporated in a mixed-matrix membrane by metal-site anchoring for gas separation

Chang Li, Wenhai Zhang, Qin Meng,* Haibiao Xu, Chong Shen and Guoliang Zhang*



4104

Efficient liquid phase photothermal catalysis realized by $\text{Ag}_2\text{O}/\text{Bi}_4\text{O}_5\text{I}_2$ via heat-localization in a microreactor

Yukai Chen, Ruizhe Wang, Huimin Wei, Rulin Dong,* Chunhua Lu* and Jiahui Kou*

