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IN THIS ISSUE

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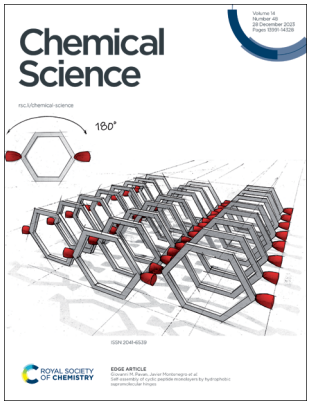

Cover
See Giovanni M. Pavan, Javier Montenegro *et al.*, pp. 14074–14081. Image reproduced by permission of Beatriz Perez and Javier Montenegro from *Chem. Sci.*, 2023, **14**, 14074.

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See Andrew Kellett, José Martínez-Costas, Miguel Vázquez López *et al.*, pp. 14082–14091. Image reproduced by permission of M. Eugenio Vázquez from *Chem. Sci.*, 2023, **14**, 14082.

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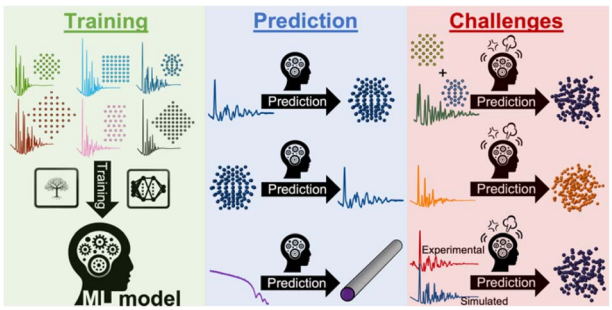

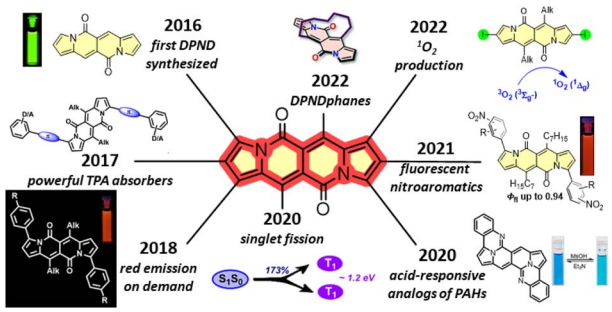

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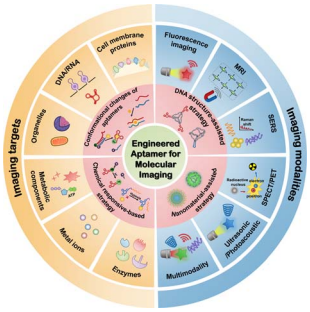

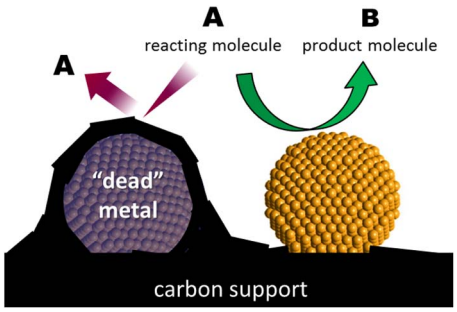

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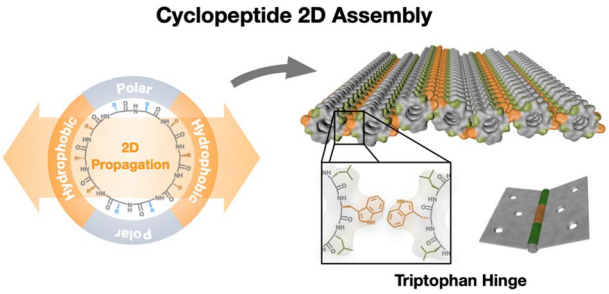

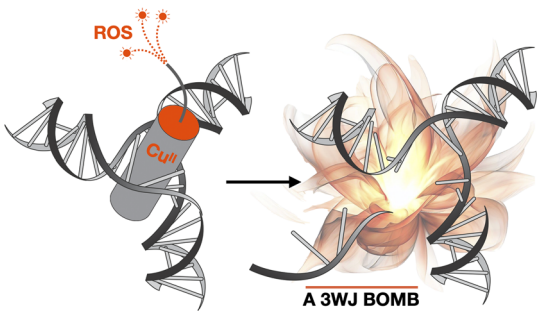

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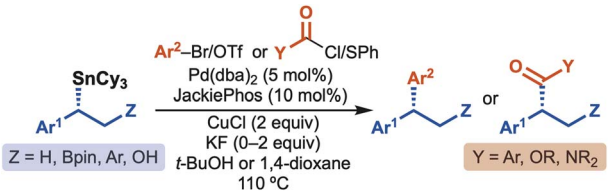

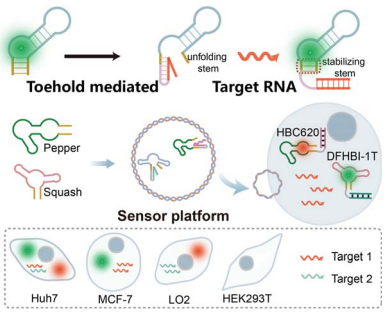

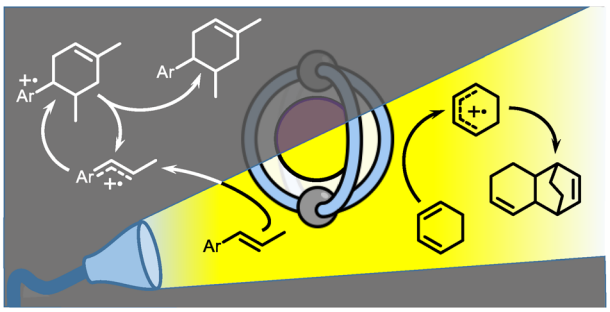

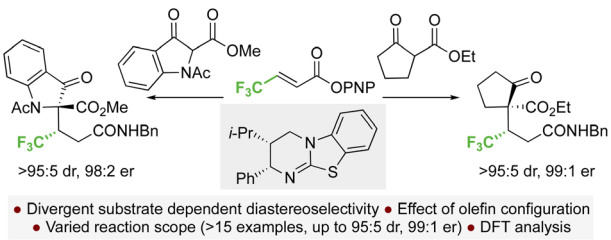

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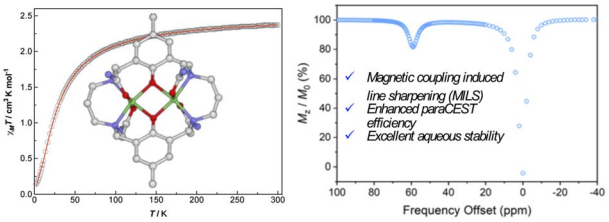

Improving the potential of paraCEST through magnetic-coupling induced line sharpening

Xin Guo, Lei Zhang, Jiesheng Hu, Balázs Szilágyi, Meng Yu,* Shizhen Chen,* Gyula Tircsó, Xin Zhou and Jun Tao*

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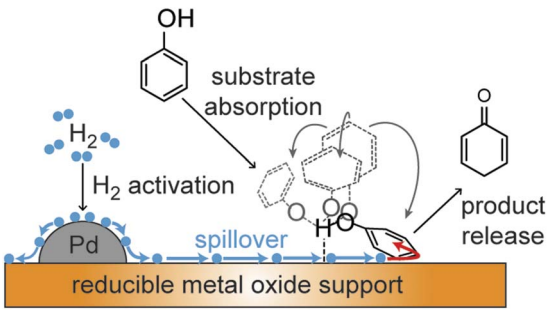

Hydrogen spillover and substrate–support hydrogen bonding mediate hydrogenation of phenol catalyzed by palladium on reducible metal oxides

Yeongseo An, Puranjan Chatterjee, Pranjali Naik, Sayak Banerjee, Wenyu Huang, Igor I. Slowing and Vincenzo Venditti*

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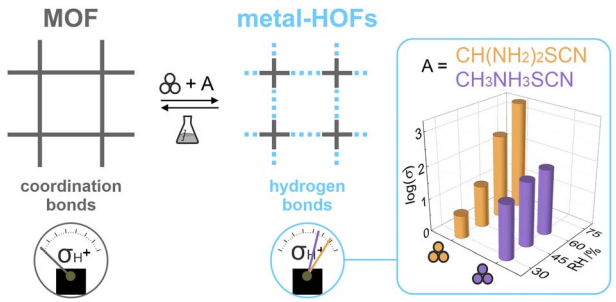

From non-conductive MOF to proton-conducting metal-HOFs: a new class of reversible transformations induced by solvent-free mechanochemistry

Magdalena Lupa-Myszkowska, Marcin Oszajca and Dariusz Matoga*

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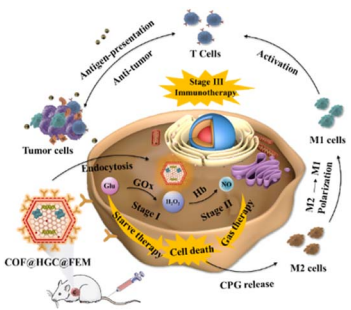

An erythrocyte membrane-camouflaged fluorescent covalent organic framework for starving/nitric oxide/immunotherapy of triple-negative breast cancer

Fang Yuan, Cuiling Zhang,* Xianzhu Luo, Shasha Cheng, Yingxin Zhu and Yuezhong Xian*

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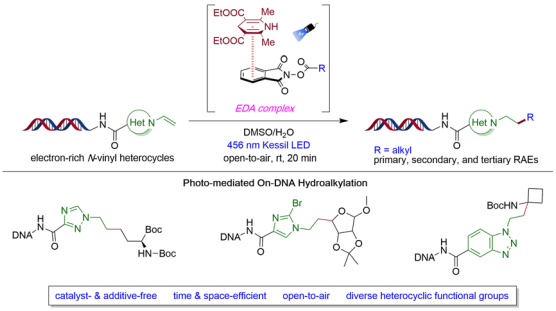

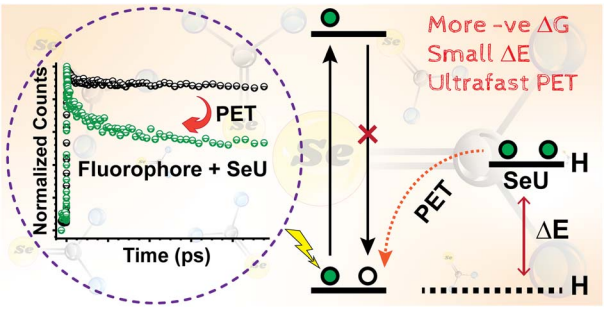

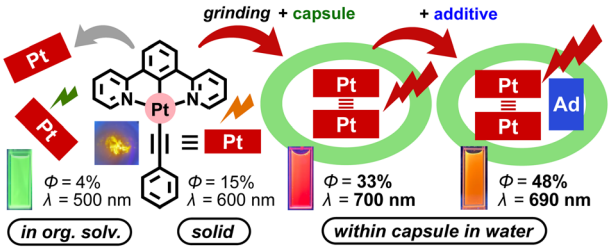

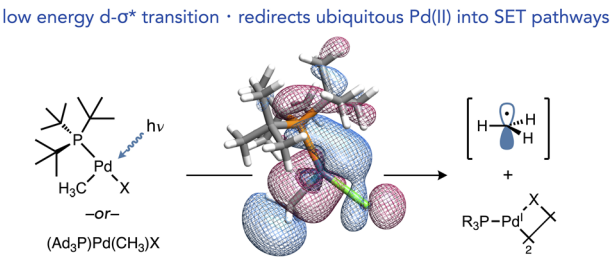

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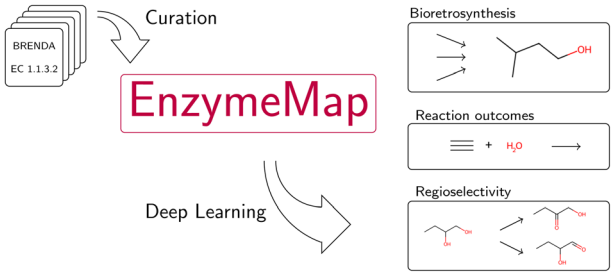
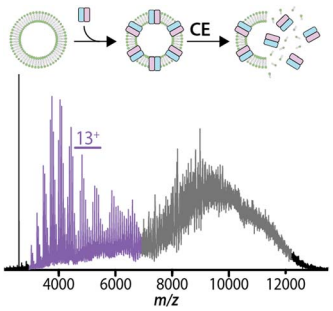


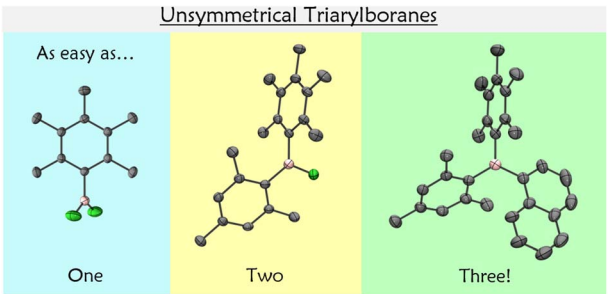
EnzymeMap: curation, validation and data-driven prediction of enzymatic reactions

Esther Heid,* Daniel Probst, William H. Green and Georg K. H. Madsen



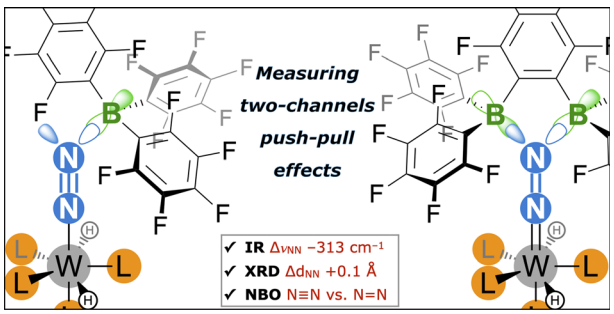
Native mass spectrometry of proteoliposomes containing integral and peripheral membrane proteins

Yun Zhu, Sangho D. Yun, Tianqi Zhang, Jing-Yuan Chang, Lauren Stover and Arthur Laganowsky*



Rapid, iterative syntheses of unsymmetrical di- and triarylboranes from crystalline aryldifluoroboranes

Douglas Turnbull and Marc-André Légaré*



An orbitally adapted push–pull template for N_2 activation and reduction to diazene-diide

David Specklin, Marie-Christine Boegli, Anaïs Coffinet, Léon Escomel, Laure Vendier, Mary Grellier and Antoine Simonneau*

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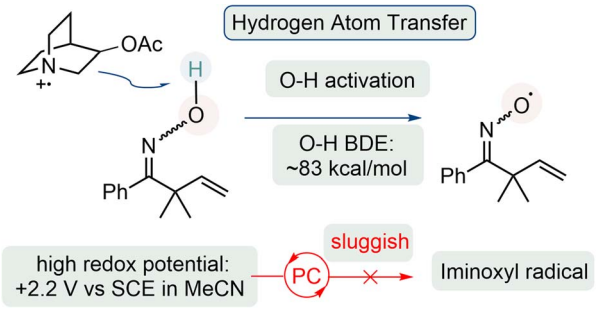

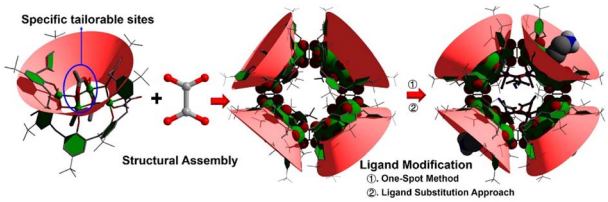

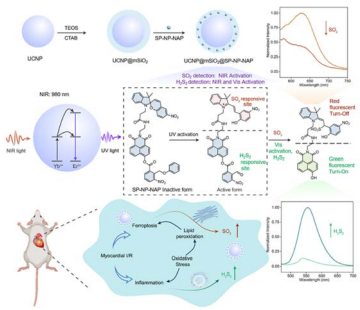

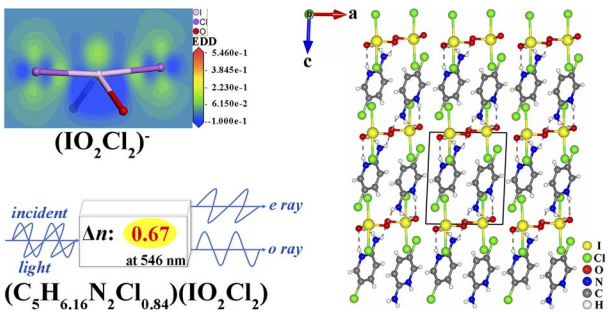

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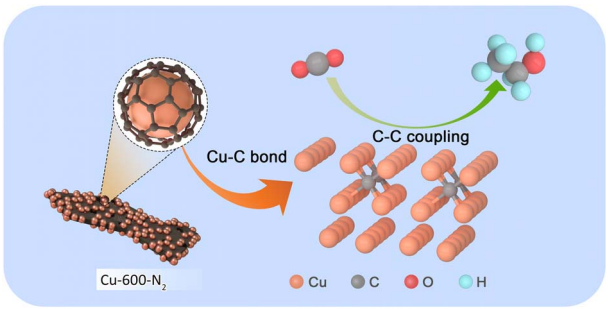
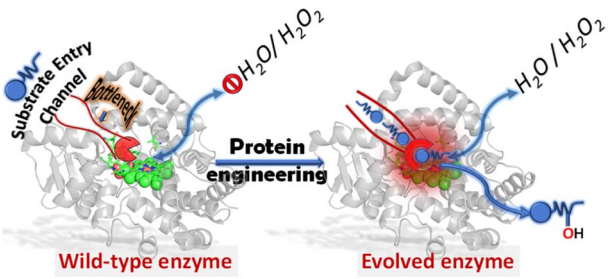


Optimizing copper nanoparticles with a carbon shell for enhanced electrochemical CO_2 reduction to ethanol

Ting Yao, Wei Xia,* Shitao Han, Shuaiqiang Jia, Xue Dong, Min Wang, Jiapeng Jiao, Dawei Zhou, Jiahao Yang, Xueqing Xing, Chunjun Chen, Mingyuan He, Haihong Wu* and Buxing Han*



Computationally guided bioengineering of the active site, substrate access pathway, and water channels of thermostable cytochrome P450, CYP175A1, for catalyzing the alkane hydroxylation reaction

Mohd Taher,* Kshatresh Dutta Dubey* and Shyamalava Mazumdar*