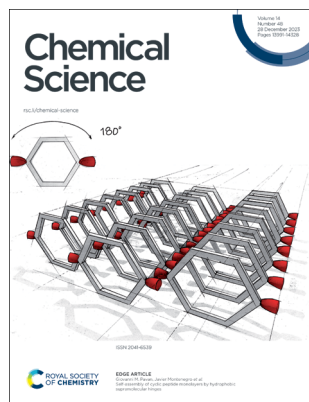


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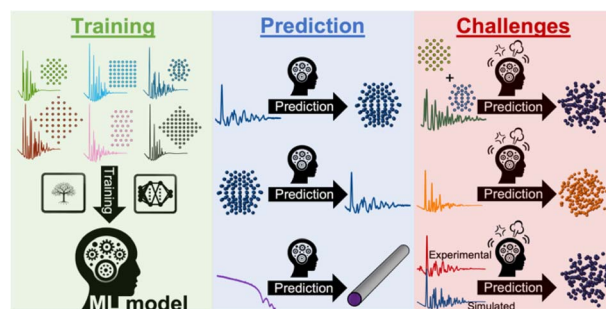
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PERSPECTIVES

14003

Machine learning for analysis of experimental scattering and spectroscopy data in materials chemistry

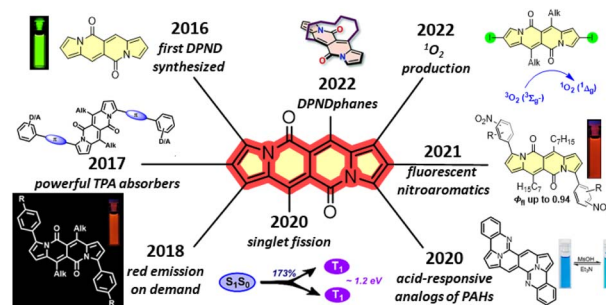
Andy S. Anker, Keith T. Butler, Raghavendra Selvan and Kirsten M. Ø. Jensen*



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Dipyrrolonaphthyridinedione – (still) a mysterious cross-conjugated chromophore

Bartłomiej Sadowski* and Daniel T. Gryko*



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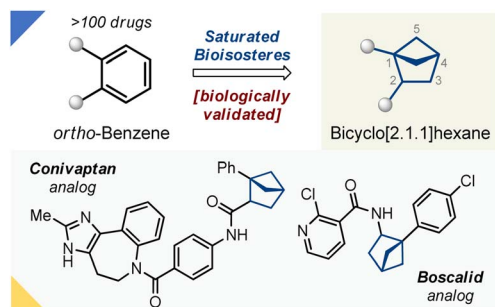
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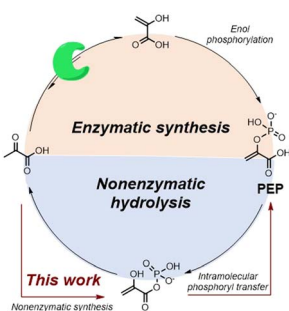
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1,2-Disubstituted bicyclo[2.1.1]hexanes as saturated bioisosteres of *ortho*-substituted benzene

Aleksandr Denisenko, Pavel Garbuz, Yelyzaveta Makovetska, Oleh Shablykin, Dmytro Lesyk, Galeb Al-Maali, Rodion Korzh, Iryna V. Sadkova and Pavel K. Mykhailiuk*

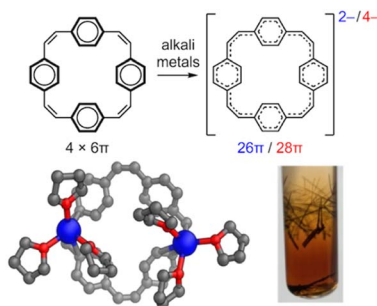
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A single phosphorylation mechanism in early metabolism – the case of phosphoenolpyruvate

Joris Zimmermann, Robert J. Mayer and Joseph Moran*

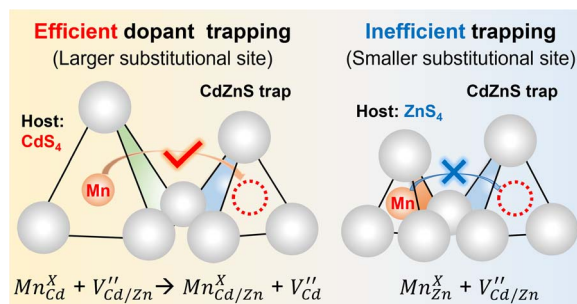
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Crystallographic evidence for global aromaticity in the di-anion and tetra-anion of a cyclophane hydrocarbon

Wojciech Stawski, Yikun Zhu, Zheng Wei, Marina A. Petrukhina* and Harry L. Anderson*

14115



Inserting an "atomic trap" for directional dopant migration in core/multi-shell quantum dots

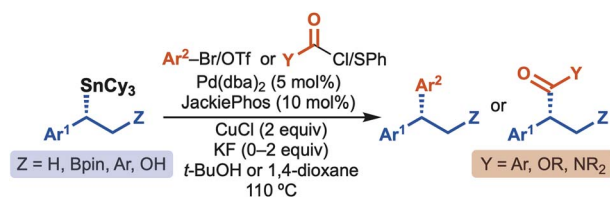
Chun Chu, Elan Hofman, Chengpeng Gao, Shuya Li, Hanjie Lin, Walker MacSwain, John M. Franck, Robert W. Meulenberg, Arindam Chakraborty and Weiwei Zheng*



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A general approach to stereospecific Pd-catalyzed cross-coupling reactions of benzylic stereocenters

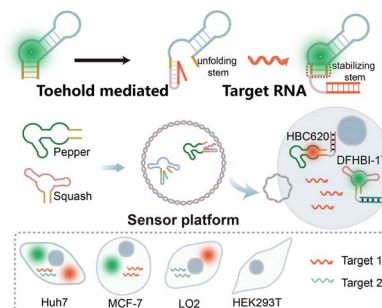
Meruyert Binayeva, Xinghua Ma,
Pejman Ghaemimohammadi and Mark R. Biscoe*



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A universal orthogonal imaging platform for living-cell RNA detection using fluorogenic RNA aptamers

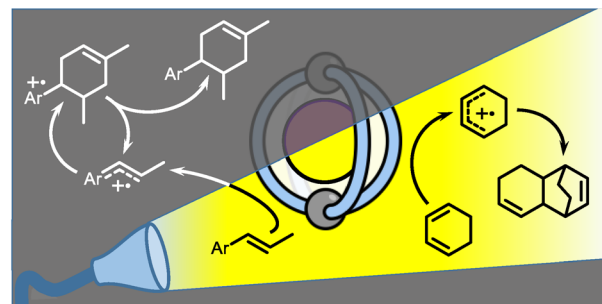
Peng Yin, Mingmin Ge, Shiyi Xie, Li Zhang, Shi Kuang*
and Zhou Nie*



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Exo-cage catalysis and initiation derived from photo-activating host-guest encapsulation

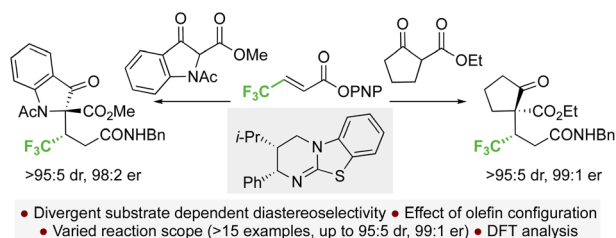
Rebecca L. Spicer, Helen M. O'Connor, Yael Ben-Tal,
Hang Zhou, Patrick J. Boaler, Fraser C. Milne, Euan
K. Brechin,* Guy. C. Lloyd-Jones* and Paul J. Lusby*



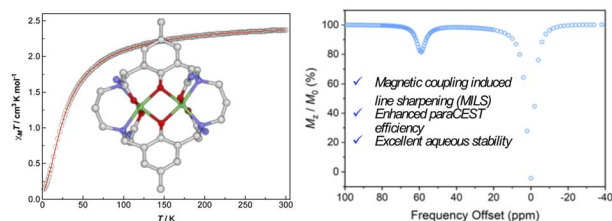
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Understanding divergent substrate stereoselectivity in the isothiurea-catalysed conjugate addition of cyclic α -substituted β -ketoesters to α,β -unsaturated aryl esters

Ding Yuan, Alister S. Goodfellow, Kevin Kasten,
Zhuan Duan, Tengfei Kang, David B. Cordes, Aidan
P. McKay, Michael Bühl,* Gregory R. Boyce* and Andrew
D. Smith*



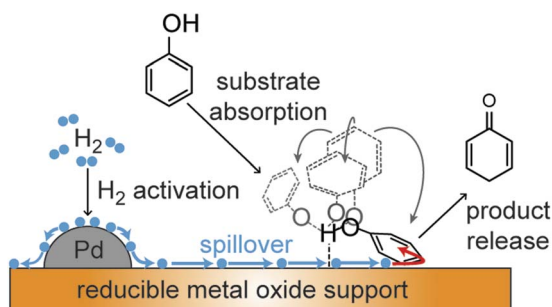
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Improving the potential of paraCEST through magnetic-coupling induced line sharpening

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

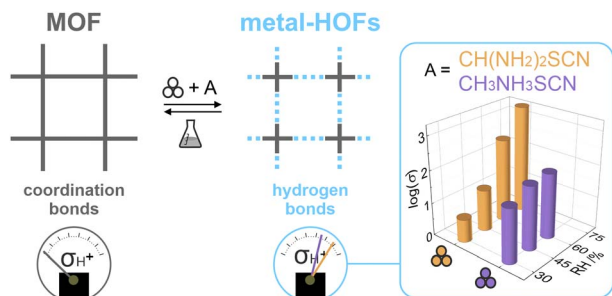
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Hydrogen spillover and substrate–support hydrogen bonding mediate hydrogenation of phenol catalyzed by palladium on reducible metal oxides

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

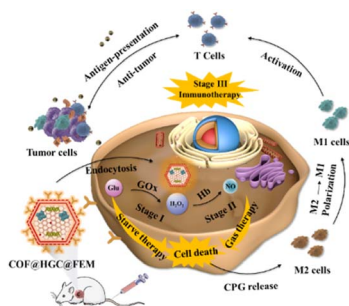
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From non-conductive MOF to proton-conducting metal-HOFs: a new class of reversible transformations induced by solvent-free mechanochemistry

Magdalena Lupa-Myszkowska, Marcin Oszajka 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

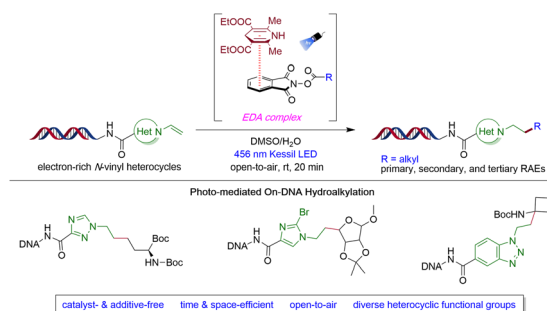
Fang Yuan, Cuiling Zhang,* Xianzhu Luo, Shasha Cheng, Yingxin Zhu and Yuezhong Xian*



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On-DNA hydroalkylation of *N*-vinyl heterocycles via photoinduced EDA-complex activation

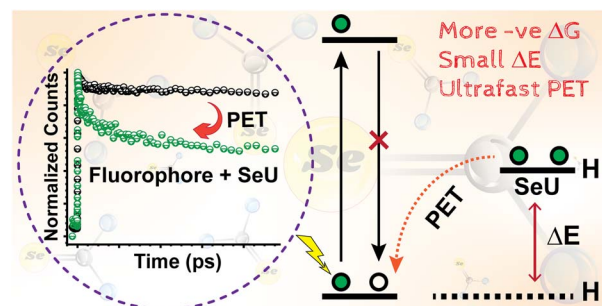
Mohammed Sharique, Bianca Matsuo, Albert Granados, Saegun Kim, Mahwish Arshad, Hyunjung Oh, Victoria E. Wu, Minxue Huang, Adam Csakai, Lisa A. Marcaurelle and Gary A. Molander*



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Critical assessment of selenourea as an efficient small molecule fluorescence quenching probe to monitor protein dynamics

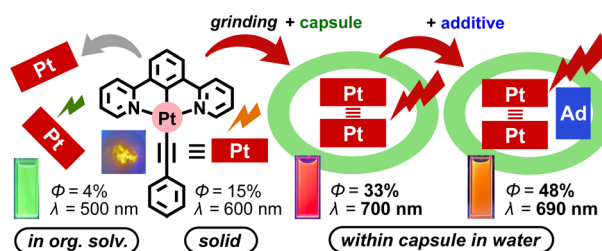
Subhrakant Jena, Kiran Devi Tulsian, Rudhi Ranjan Sahoo, Saiprakash Rout, Akshay Kumar Sahu and Himansu S. Biswal*



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Solution-state mechanochromic luminescence of Pt(II)-complexes displayed within micellar aromatic capsules

Yoshihisa Hashimoto, Yuri Katagiri, Yuya Tanaka* and Michito Yoshizawa*

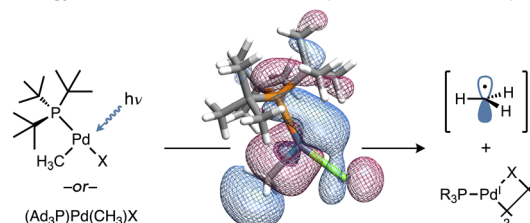


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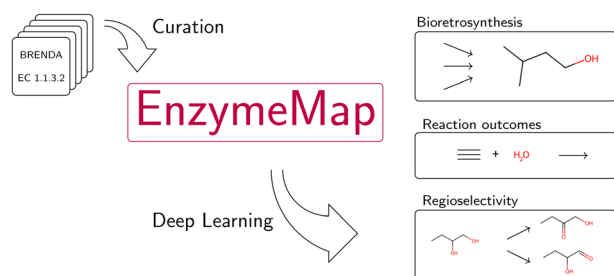
Visible light-induced palladium–carbon bond weakening in catalytically relevant T-shaped complexes

Peter M. Waddell, Lei Tian, Anthony R. Scavuzzo, Lalu Venigalla, Gregory D. Scholes and Brad P. Carrow*

low energy d-σ* transition · redirects ubiquitous Pd(II) into SET pathways



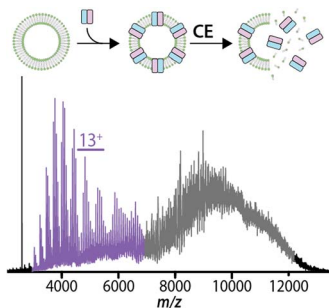
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EnzymeMap: curation, validation and data-driven prediction of enzymatic reactions

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

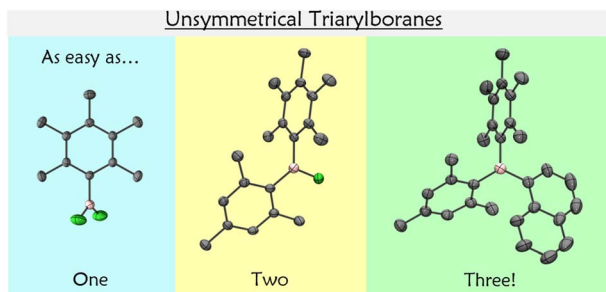
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Native mass spectrometry of proteoliposomes containing integral and peripheral membrane proteins

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

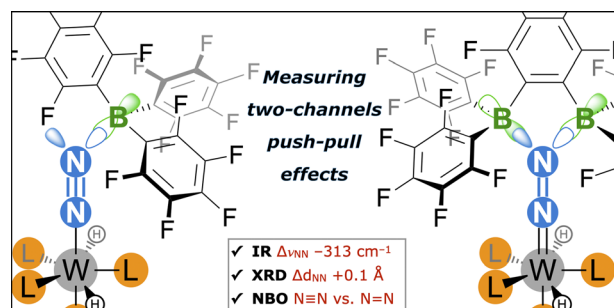
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Rapid, iterative syntheses of unsymmetrical di- and triarylboranes from crystalline aryl difluoroboranes

Douglas Turnbull and Marc-André Légaré*

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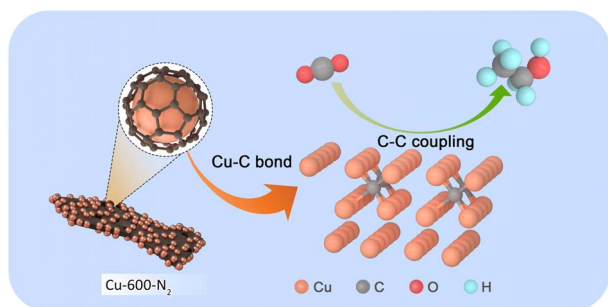


An orbitally adapted push-pull template for N_2 activation and reduction to diazene-diide

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



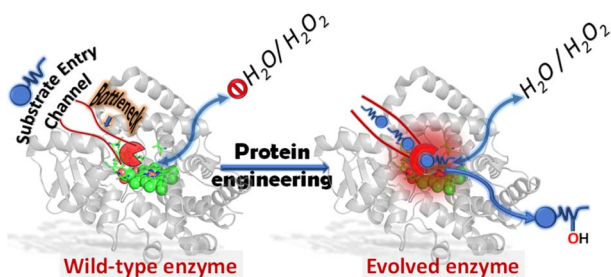
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Optimizing copper nanoparticles with a carbon shell for enhanced electrochemical CO₂ reduction to ethanol

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*

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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*

