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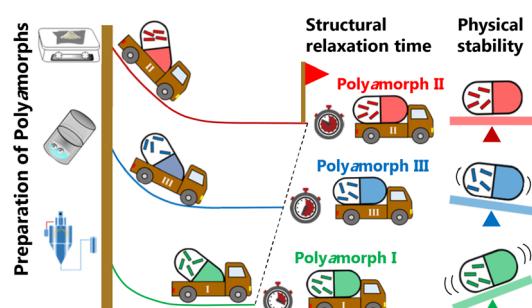
See Rubicelia Vargas, Jorge Garza, Nak Cheon Jeong et al., pp. 2581–2588. Image reproduced by permission of Nak Cheon Jeong from *Chem. Sci.*, 2025, **16**, 2581.

COMMENTARY

2480

A focus on chasing pharmaceutical polyamorphs to design better oral drug formulations

Ana M. Belenguer

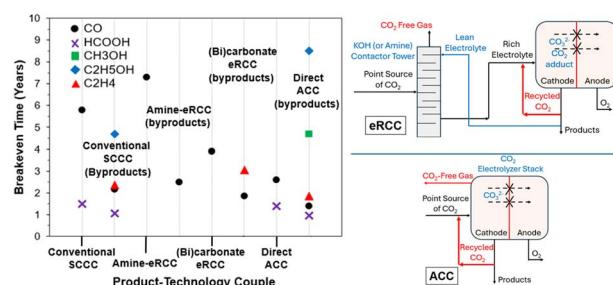


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A critical appraisal of advances in integrated CO₂ capture and electrochemical conversion

Ahmed Badreldin and Ying Li*



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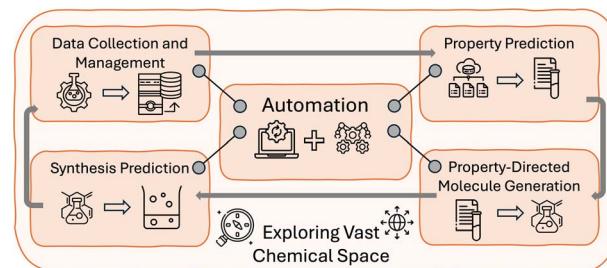
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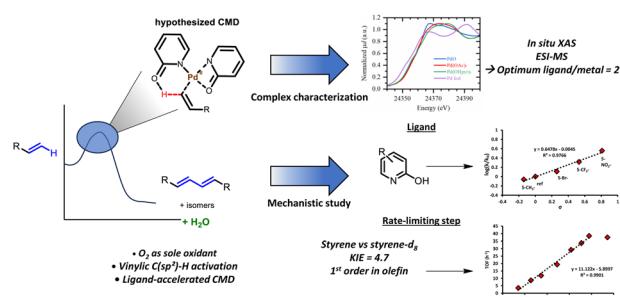
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A review of large language models and autonomous agents in chemistryMayk Caldas Ramos, Christopher J. Collison
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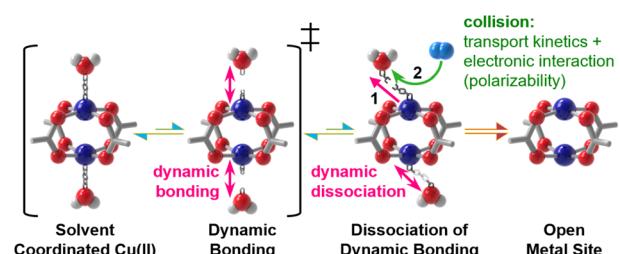
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Hendrik Van Dessel, Frederick Martens, Wouter Stuyck,
Tom Nelis, Igor Beckers, Aram Bugaev and Dirk De Vos*

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Gas-flow activation of MOFs: unlocking efficient catalysis through dynamic bonding

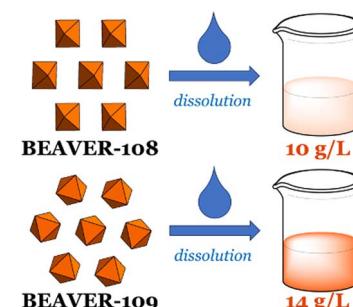
Mariana L. Díaz-Ramírez, Sun Ho Park, Marcos Rivera-Almazo, Erika Medel, Ricardo A. Peralta, Ilich A. Ibarra, Rubicelia Vargas,* Jorge Garza* and Nak Cheon Jeong*



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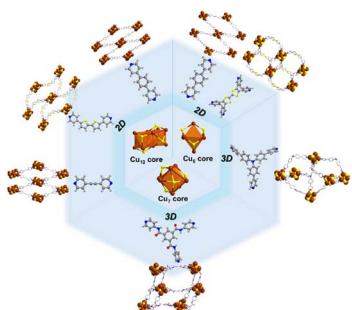
Solvatomorphic diversity dictates the stability and solubility of metal–organic polyhedra

Ankit K. Yadav, Andrzej Gladysiak,* Emma H. Wolpert, Alex M. Ganose, Bronson Samel-Garloff, Dipankar Koley, Kim E. Jelfs and Kyriakos C. Stylianou*



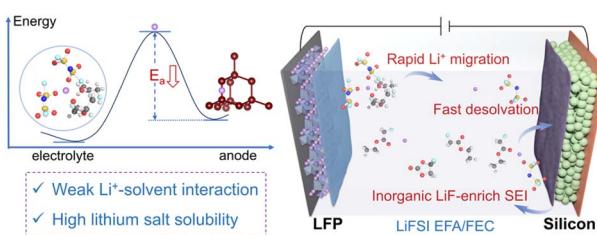
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**Tunable structural rearrangement in Cu cluster assemblies through linker and solvent alterations**

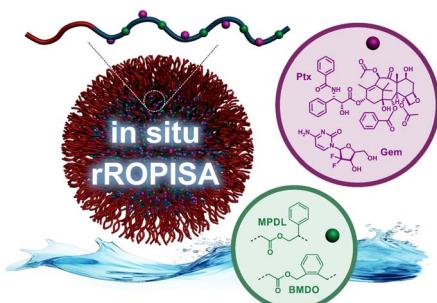
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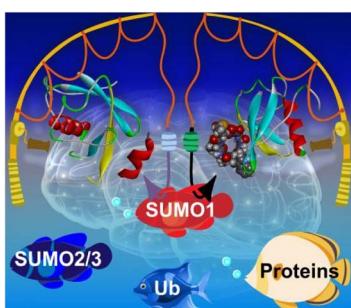
Min Li, Shuai Li, Dong Yan, Yuhao Ma, Xiaobin Niu and Liping Wang*

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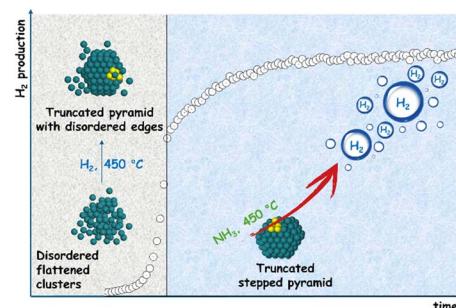


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Evolution of amorphous ruthenium nanoclusters into stepped truncated nano-pyramids on graphitic surfaces boosts hydrogen production from ammonia

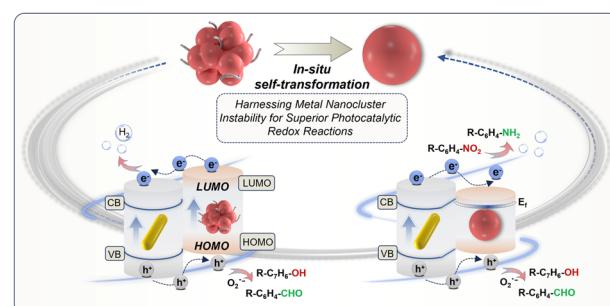
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Surmounting the instability of atomically precise metal nanoclusters towards boosted photoredox organic transformation

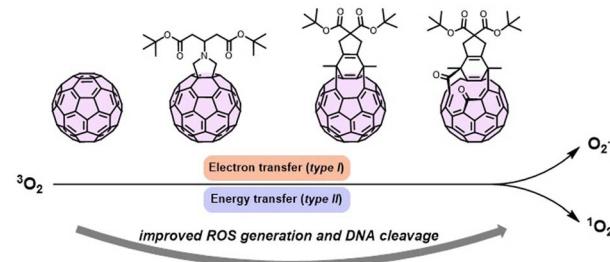
Yu-Bing Li and Fang-Xing Xiao*



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Enhancement of photoinduced reactive oxygen species generation in open-cage fullerenes

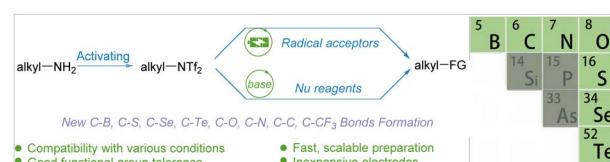
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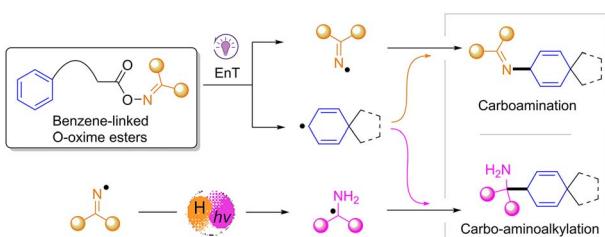
Alkyl bistriflimidate-mediated electrochemical deaminative functionalization

Hui Shu, Xiangzhang Tao,* Shengyang Ni, Jiyang Liu, Jia Xu, Yi Pan and Yi Wang*



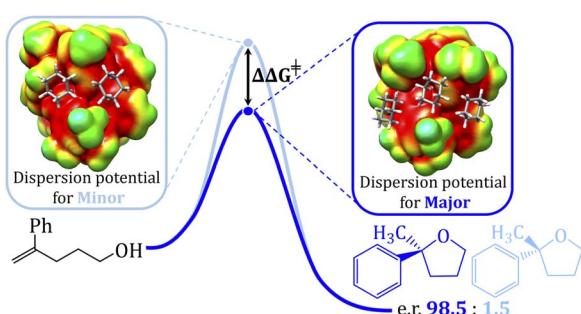
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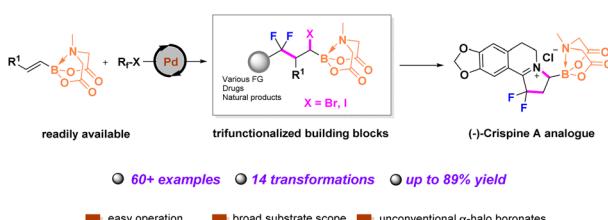
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**Understanding and quantifying the impact of solute–solvent van der Waals interactions on the selectivity of asymmetric catalytic transformations**

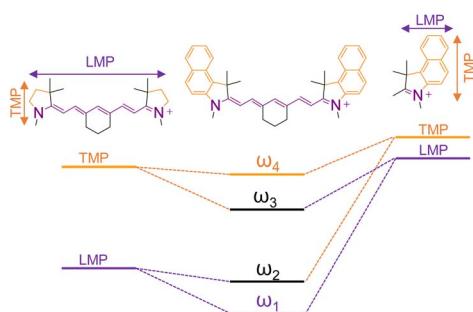
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Ciceron Ayala-Orozco,* Bowen Li, Gang Li and James M. Tour*

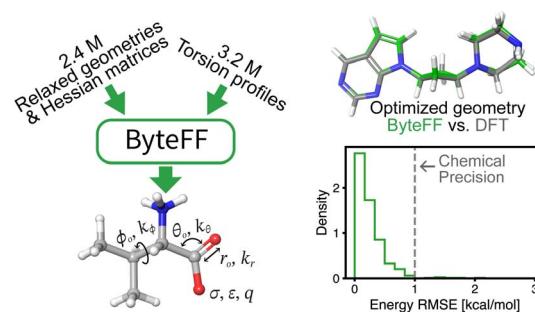


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Data-driven parametrization of molecular mechanics force fields for expansive chemical space coverage

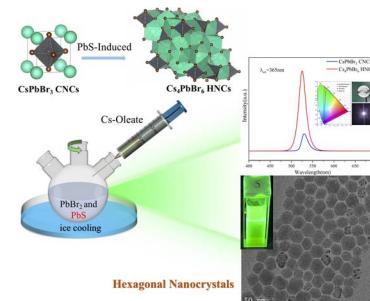
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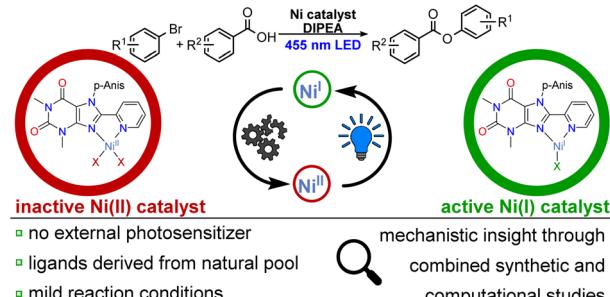
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Mechanistic insights into the visible-light-driven O-arylation of carboxylic acids catalyzed by xanthine-based nickel complexes

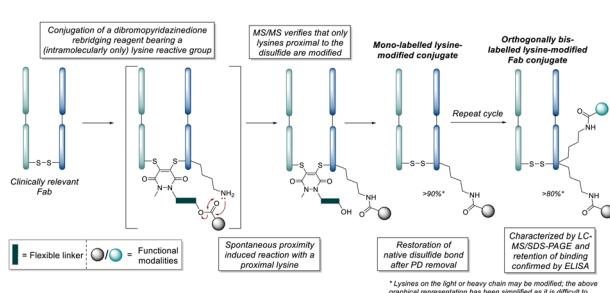
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Formation of mono- and dual-labelled antibody fragment conjugates via reversible site-selective disulfide modification and proximity induced lysine reactivity

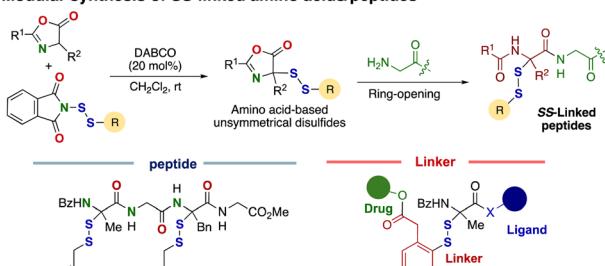
Ioanna A. Thanasi, Nathalie Bouloc, Cliona McMahon, Ning Wang, Peter A. Szijj, Tobias Butcher, Léa N. C. Rochet, Elizabeth A. Love, Andy Merritt, James R. Baker* and Vijay Chudasama*



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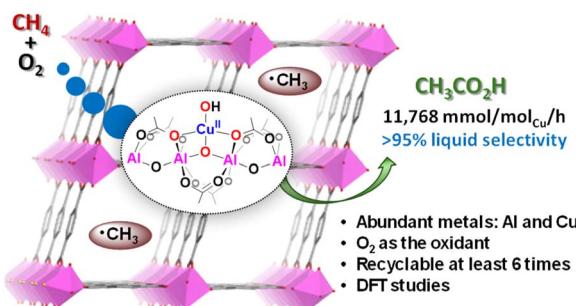
Modular synthesis of SS-linked amino acids/peptides



A versatile entry to unnatural, disulfide-linked amino acids and peptides through the disulfuration of azlactones

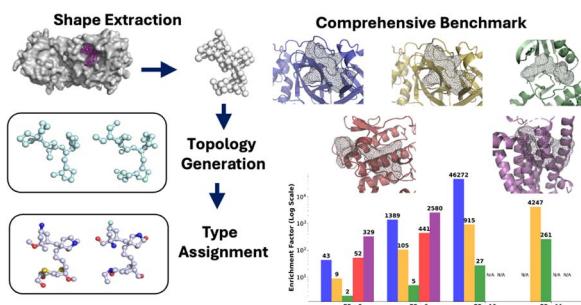
Masaki Iwata, Yuzuki Takami, Hayato Asanuma, Kenya Hosono, Hibiki Ohno, Naohiko Yoshikai and Kazuya Kanemoto*

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Copper catalyzed selective methane oxidation to acetic acid using O₂

Poorvi Gupta, Bharti Rana, Rishabh Maurya, Rahul Kalita, Manav Chauhan and Kuntal Manna*

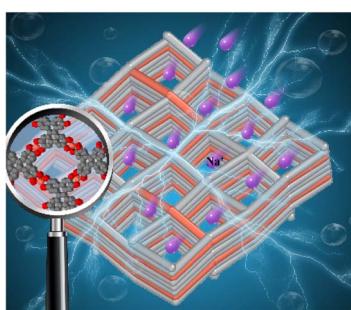
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TopMT-GAN: a 3D topology-driven generative model for efficient and diverse structure-based ligand design

Shen Wang, Tong Lin, Tianyi Peng, Enming Xing, Sijie Chen, Levent Burak Kara and Xiaolin Cheng*

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A 3D four-fold interpenetrated conductive metal-organic framework for fast and robust sodium-ion storage

Zhaoli Liu, Juan Chu, Linqi Cheng, Junhao Wang, Chongyi Zhang, Cheng Zhang, Fengchao Cui, Heng-Guo Wang* and Guangshan Zhu

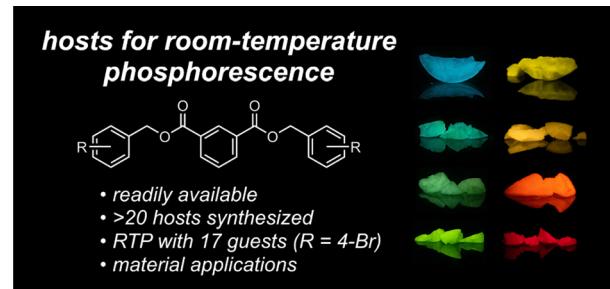


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Dibenzyl isophthalates as versatile hosts in room temperature phosphorescence host–guest systems

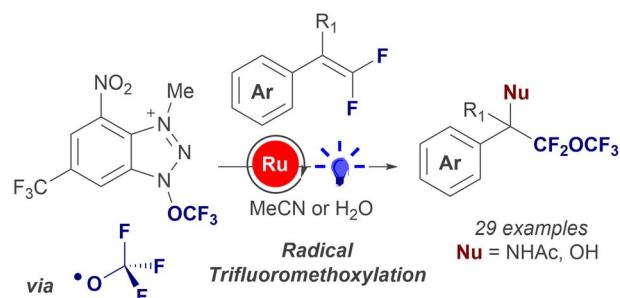
Martin Molkenthin, Emanuel Hupf* and Boris J. Nachtsheim*



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Radical trifluoromethylation of fluorinated alkenes for accessing difluoro(trifluoromethoxy)methyl groups

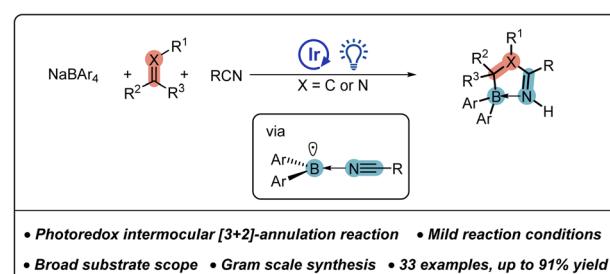
Koki Kawai, Mai Usui, Sota Ikawa, Naoyuki Hoshiya, Yosuke Kishikawa and Norio Shibata*



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Photocatalytic [3 + 2]-annulation via sodium tetraarylborate: a fundamental approach for synthesizing 1,4,2-diazaborole analogs

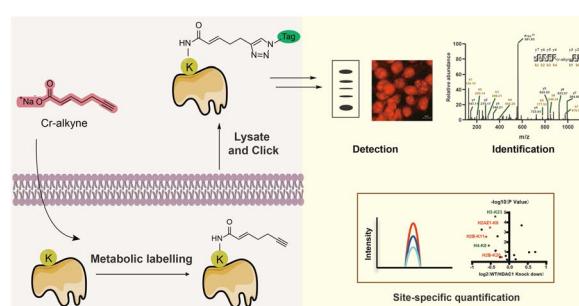
Hao-Ni Qin, Hao-Wen Jiang, Yi Zhao, Saira Qurban, Ke-Chun Wang and Peng-Fei Xu*



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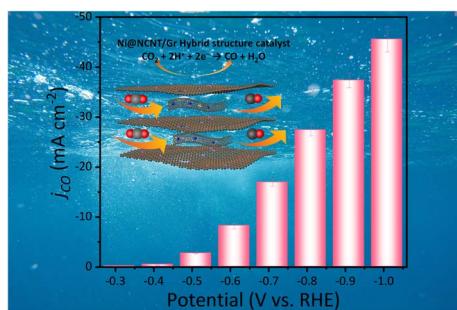
Chemical proteomic profiling of lysine crotonylation using minimalist bioorthogonal probes in mammalian cells

Yuan-Fei Zhou, Shouli Yuan, Bin Ma, Jinjun Gao and Chu Wang*



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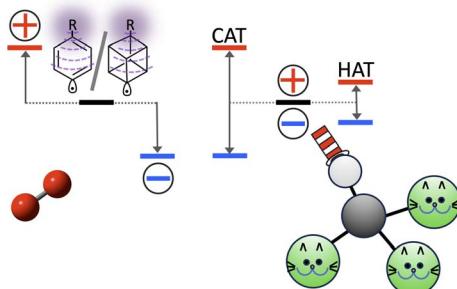
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Design of a new Ni@NCNT/graphene hybrid structured catalyst for high-performance electrochemical CO_2 reduction: unravelling the roles of N-doping

Jian Zhu, Jing Hu, Zhenyu Wang, Zhouguang Lu, Shoubhik Das* and Pegie Cool*

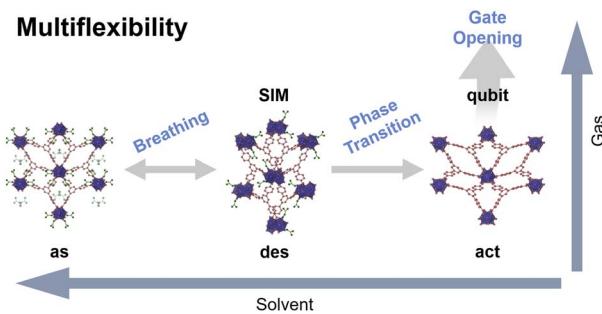
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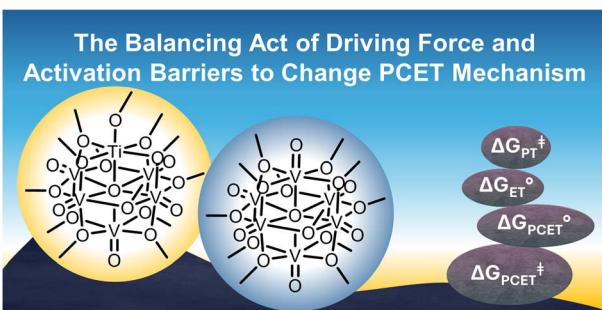
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Implementing magnetic properties on demand with a dynamic lanthanoid-organic framework

Iván Gómez-Muñoz, Ziqi Hu, Iñigo J. Vitónica-Yrezábal, Eugenio Coronado and Guillermo Minguez Espallargas*

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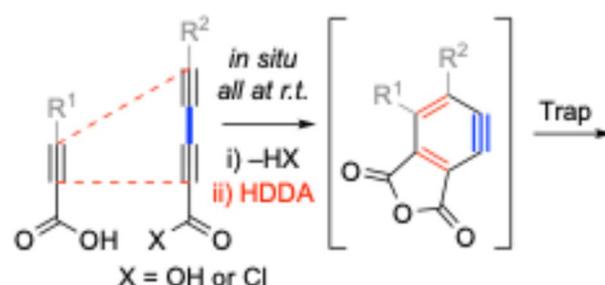
Engineering mechanisms of proton-coupled electron transfer to a titanium-substituted polyoxovanadate-alkoxide

Shannon E. Cooney, S. Genevieve Duggan, M. Rebecca A. Walls, Noah J. Gibson, James M. Mayer, Pere Miro* and Ellen M. Matson*



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Rapid (≤ 25 °C) cycloisomerization of anhydride-tethered triynes to benzyne – origin of a remarkable anhydride linker-induced rate enhancementDorian S. Sneddon, Paul V. Kevorkian
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Grappa – a machine learned molecular mechanics force fieldLeif Seute,* Eric Hartmann, Jan Stühmer
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CORRECTION

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Correction: Strategic design of GalNAc-helical peptide ligands for efficient liver targeting

Takahito Ito, Nobumichi Ohoka, Michihiko Aoyama, Takashi Nishikaze, Takashi Misawa, Takao Inoue, Akiko Ishii-Watabe and Yosuke Demizu*