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ISSN 2041-6539 CODEN CSHCBM 15(30) 11669–12150 (2024)

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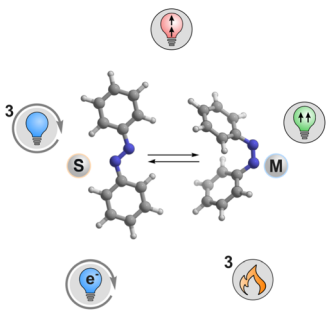
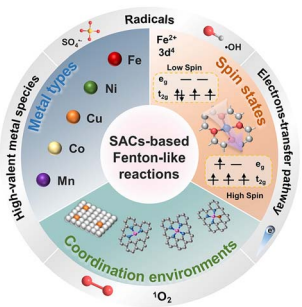
See Prince Ravat *et al.*, pp. 11737–11747. Image reproduced by permission of Ehsan Faridi and Asim Swain from *Chem. Sci.*, 2024, **15**, 11737.

Inside cover
See Rachel Codd *et al.*, pp. 11748–11760. Image reproduced by permission of Telix Pharmaceuticals Limited from *Chem. Sci.*, 2024, **15**, 11748.

PERSPECTIVE



REVIEWS



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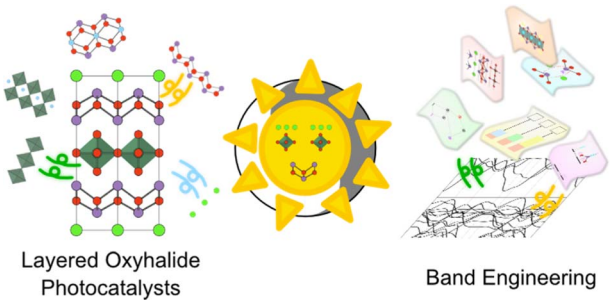

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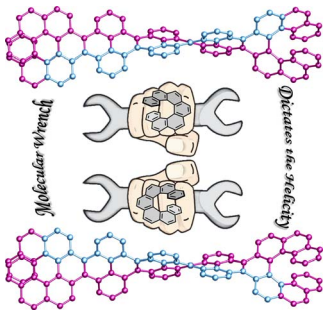

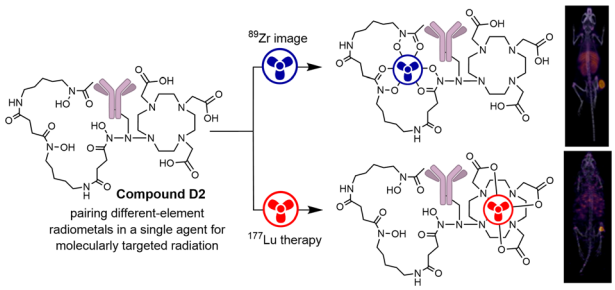

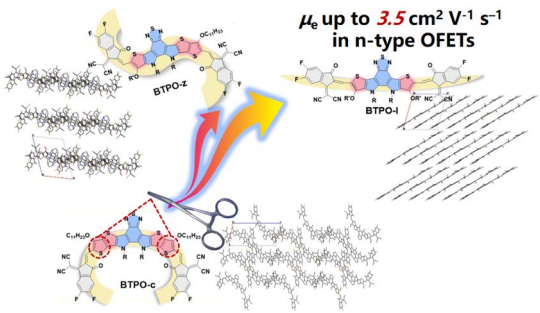

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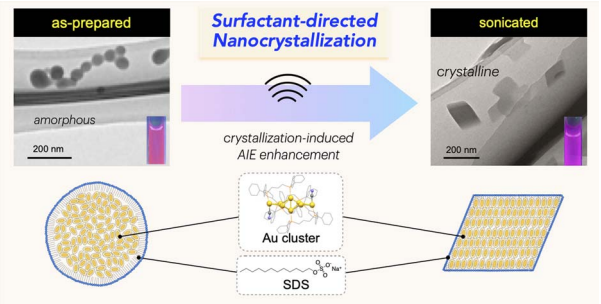
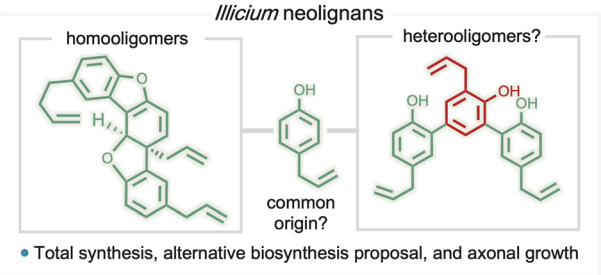


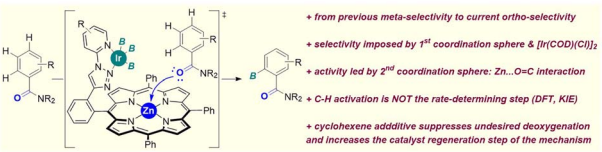
Controlled nanocrystallization of gold nanoclusters within surfactant envelopes: enhancing aggregation-induced emission in solution

Yuki Saito, Ayano Suda, Maki Sakai, Shogo Nakajima, Yukatsu Shichibu, Hayato Kanai, Yasuhiro Ishida* and Katsuaki Konishi*



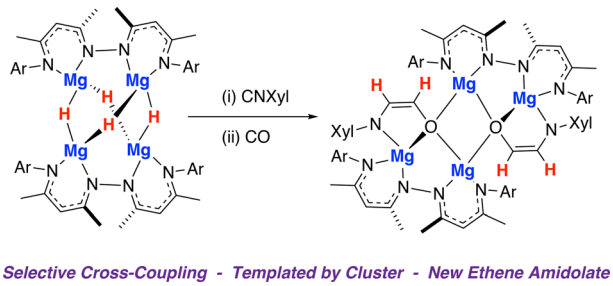
Total synthesis, biological evaluation and biosynthetic re-evaluation of *Illicium*-derived neolignans

Robert E. Arnold, Jan Saska, Raquel Mesquita-Ribeiro, Federico Dajas-Bailador, Laurence Taylor, William Lewis, Stephen Argent, Huiling Shao, Kendall N. Houk* and Ross M. Denton*



Repurposing a supramolecular iridium catalyst *via* secondary Zn···O=C weak interactions between the ligand and substrate leads to *ortho*-selective C(sp^2)–H borylation of benzamides with unusual kinetics

Jonathan Trouvé, Vanessa Delahaye, Michele Tomasini, Purushothaman Rajeshwaran, Thierry Roisnel, Albert Poater* and Rafael Gramage-Doria*



Cross-coupling of CO and an isocyanide mediated by a tetrameric magnesium hydride cluster

Wenbang Yang, Andrew J. P. White and Mark R. Crimmin*

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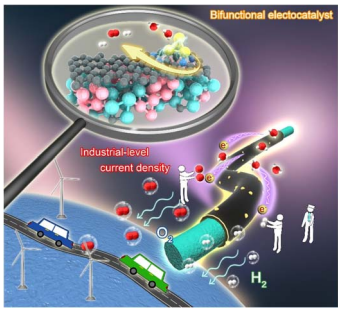

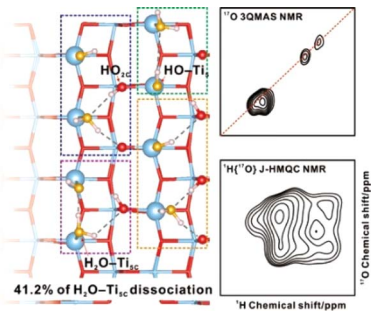

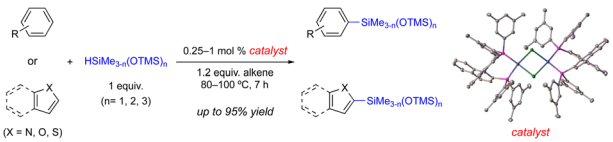

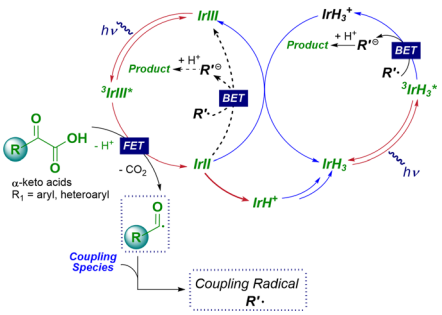

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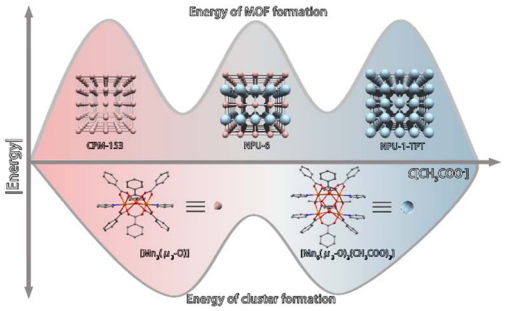
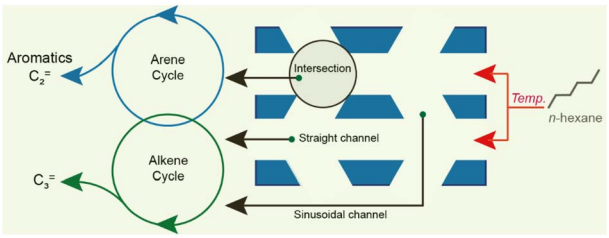


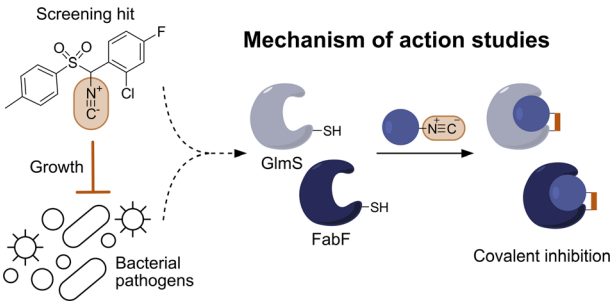
Ordered assembly of two different metal clusters with the same topological connectivity in one single coordination network

Jian-Wei Cao, Tao Zhang, Juan Chen, Jin-Bo Wang, Yu Wang and Kai-Jie Chen*



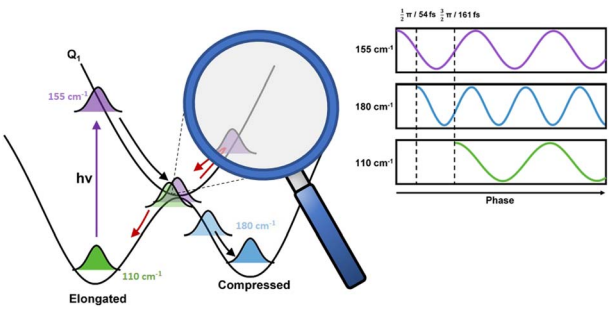
Selectivity descriptors of the catalytic *n*-hexane cracking process over 10-membered ring zeolites

Pandong Ma, Hexun Zhou, Yubing Li, Mengheng Wang, Stefan Adrian F. Nastase, Mengsi Zhu, Jiale Cui, Luigi Cavallo, Kang Cheng* and Abhishek Dutta Chowdhury*



Isocyanides inhibit bacterial pathogens by covalent targeting of essential metabolic enzymes

Alexandra Geißler, Howard Junca, Andreas M. Kany, Lena J. Daumann, Anna K. H. Hirsch, Dietmar H. Pieper and Stephan A. Sieber*



Tracking the conical intersection dynamics for the photoinduced Jahn–Teller switch of a Mn(III) complex

Ryan Phelps, Eleftheria Agapaki, Euan K. Brechin and J. Olof Johansson*

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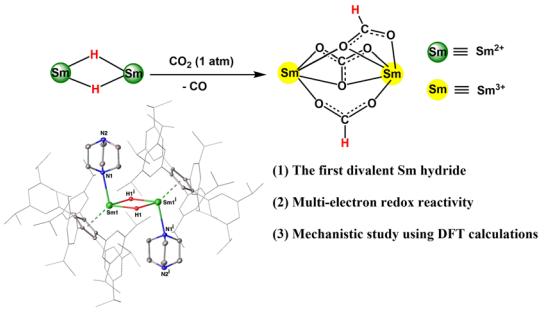

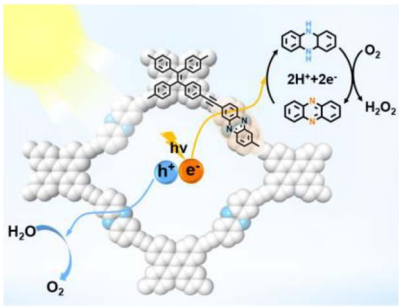

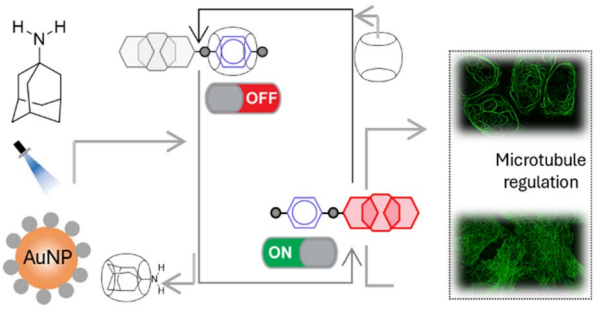

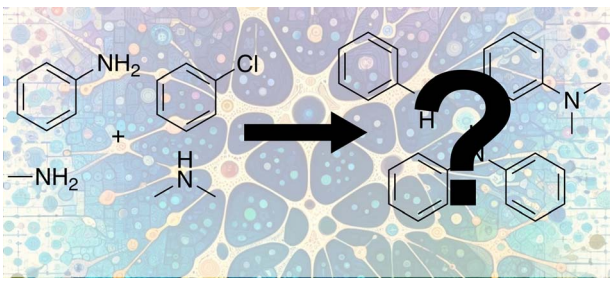

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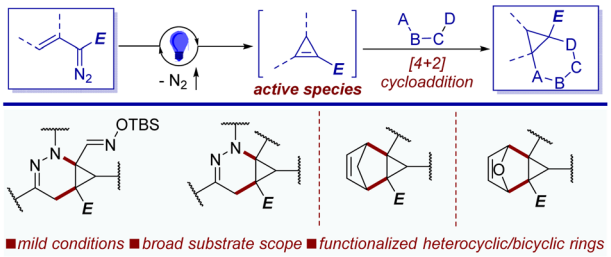

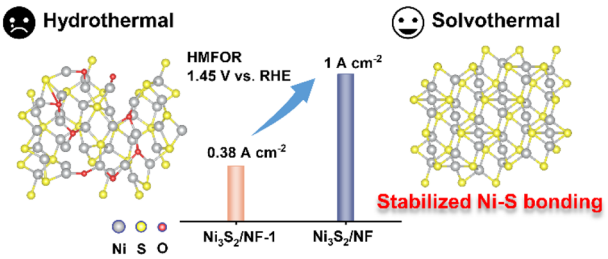

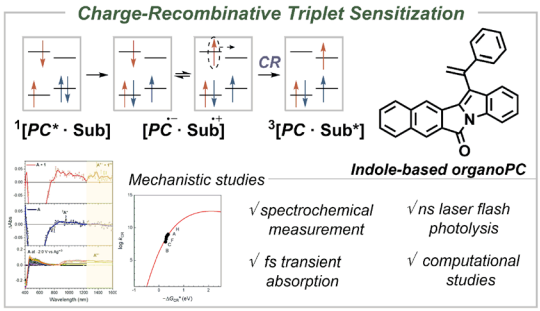

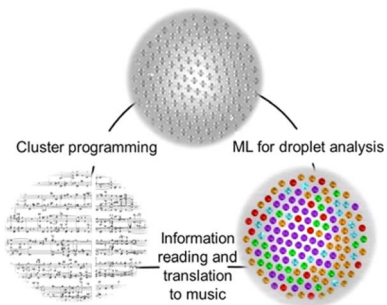

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