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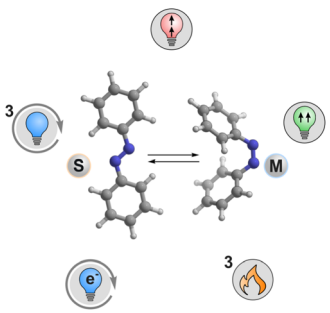
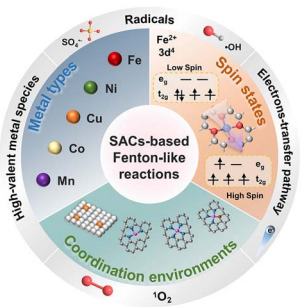
See Prince Ravat *et al.*, pp. 11737–11747. Image reproduced by permission of Ehsan Faridi and Asim Swain from *Chem. Sci.*, 2024, **15**, 11737.

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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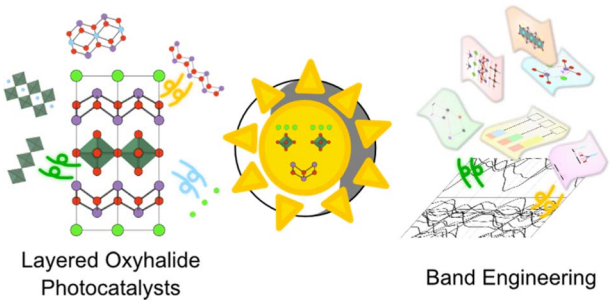

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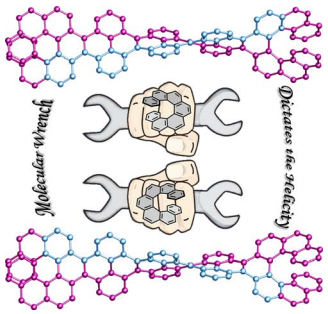

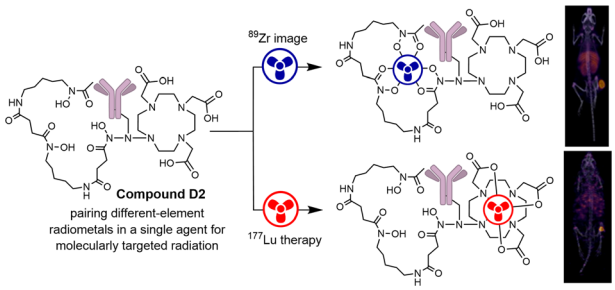

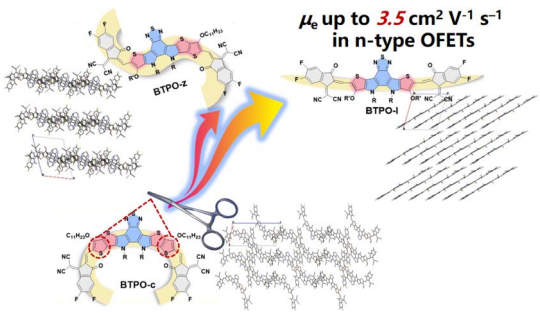

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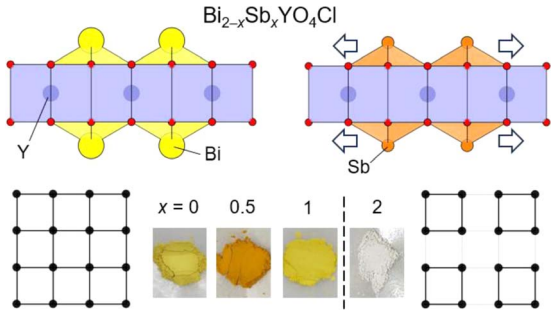
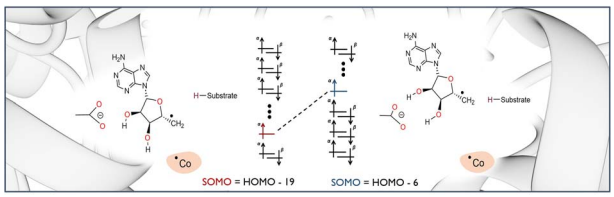


Internal strain-driven bond manipulation and band engineering in $Bi_{2-x}Sb_xYO_4Cl$ photocatalysts with triple fluorite layers

Artem Gabov, Daichi Kato,* Hiroki Ubukata, Ryotaro Aso, Naoji Kakudou, Koji Fujita, Hajime Suzuki, Osamu Tomita, Akinori Saeki, Ryu Abe, Smagul Zh Karazhanov* and Hiroshi Kageyama*

11865



Non-Aufbau electronic structure in radical enzymes and control of the highly reactive intermediates

M. Hossein Khalilian and Gino A. DiLabio*

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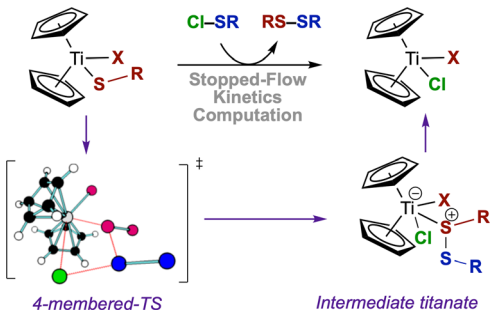

Kinetics of sulfur-transfer from titanocene (poly) sulfides to sulfenyl chlorides: rapid metal-assisted concerted substitution

Pedro H. Helou de Oliveira, Patrick J. Boaler, Guoxiong Hua, Nathan M. West, Robert T. Hembre, Jonathan M. Penney, Malik H. Al-Afyouni, J. Derek Woollins, Andrés García-Domínguez* and Guy C. Lloyd-Jones*

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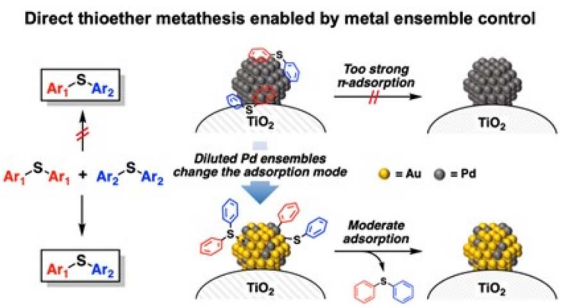

Heterogeneously catalyzed thioether metathesis by a supported Au–Pd alloy nanoparticle design based on Pd ensemble control

Takehiro Matsuyama, Takafumi Yatabe,* Tomohiro Yabe and Kazuya Yamaguchi*

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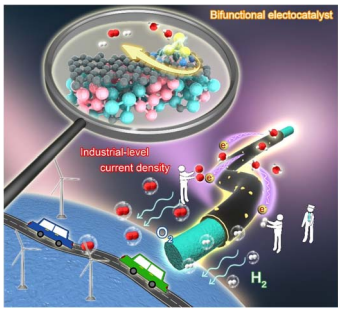

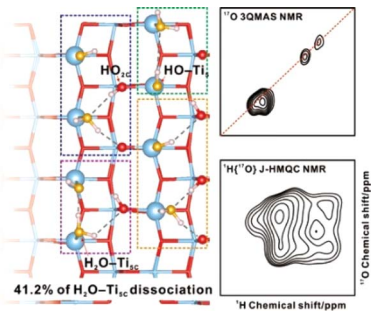

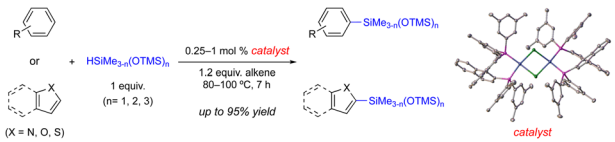

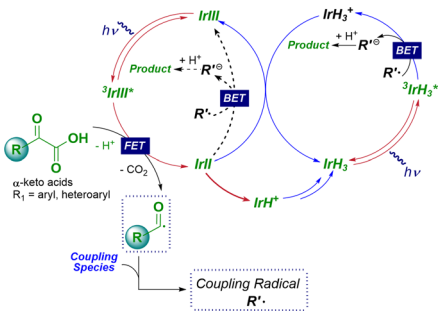

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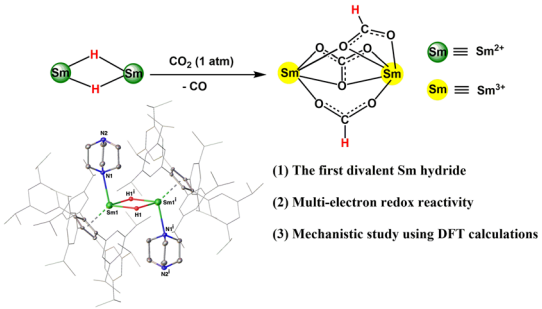

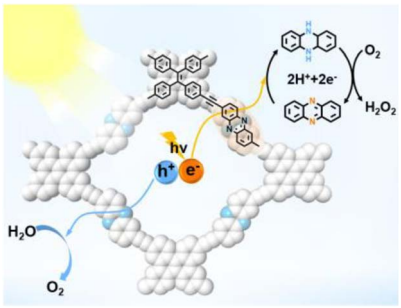

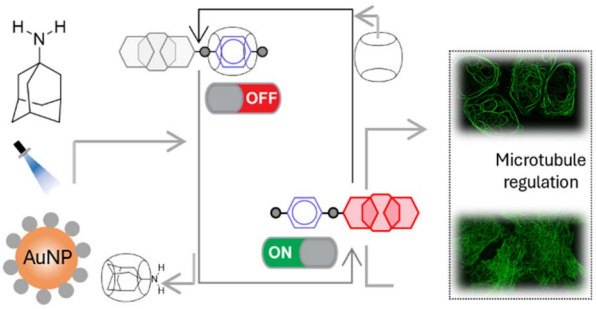

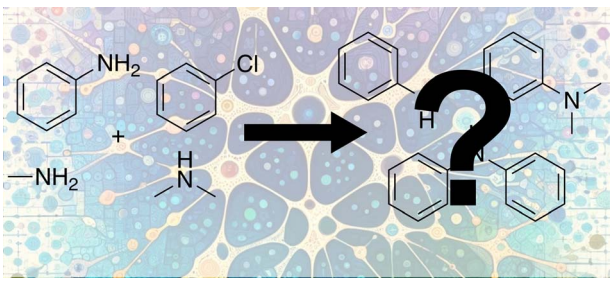

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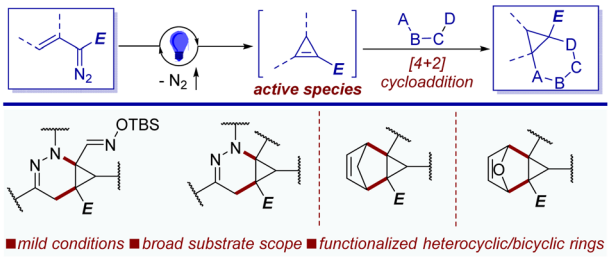

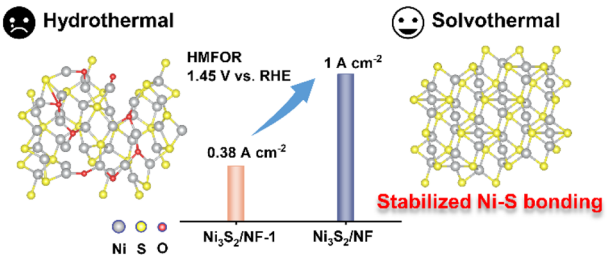

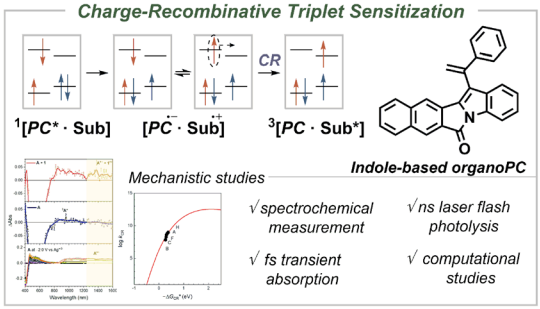

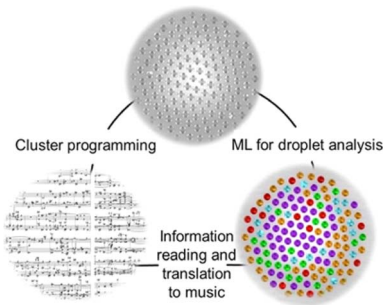

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