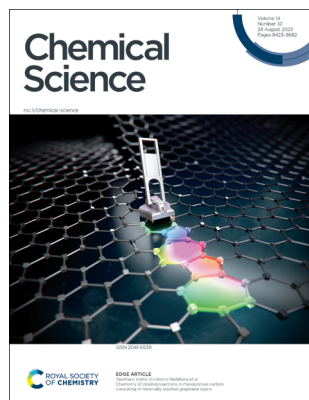
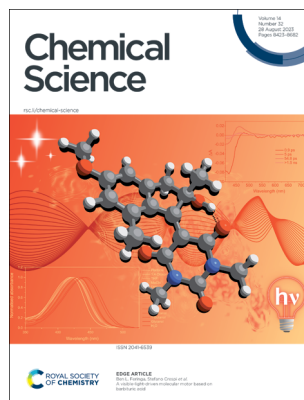


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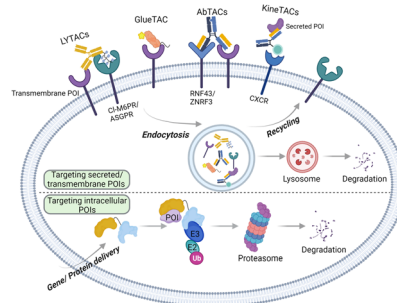
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Fangfang Shen and Laura M. K. Dassama\*

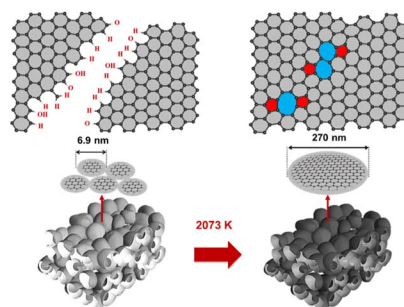


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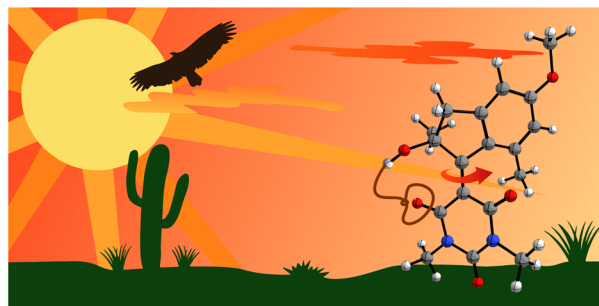
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### A visible-light-driven molecular motor based on barbituric acid

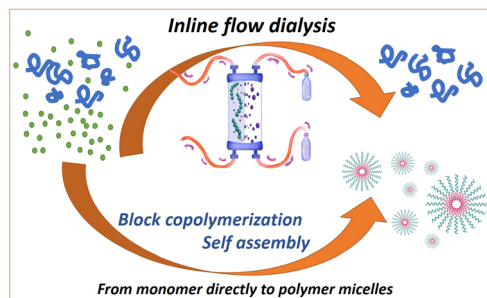
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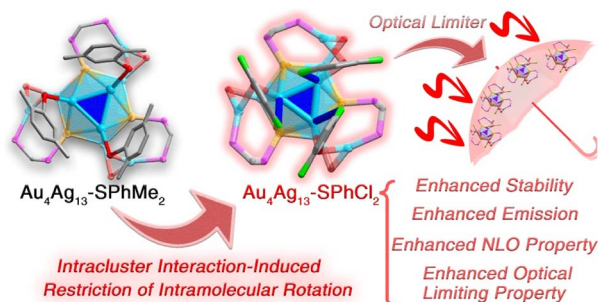
Pieter-Jan Voorter, Gayathri Dev, Axel-Laurenz Buckinx, Jinhua Dai, Priya Subramanian, Anil Kumar, Neil R. Cameron and Tanja Junkers\*



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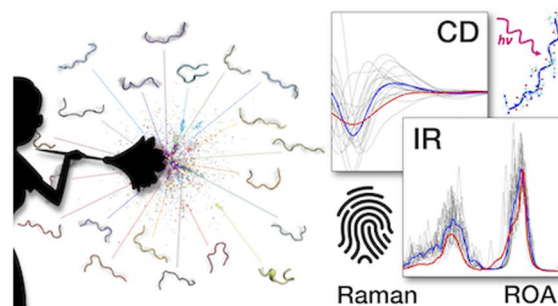
Junsheng Xin, Jing Xu, Chen Zhu, Yupeng Tian, Qiong Zhang,\* Xi Kang\* and Manzhou Zhu\*



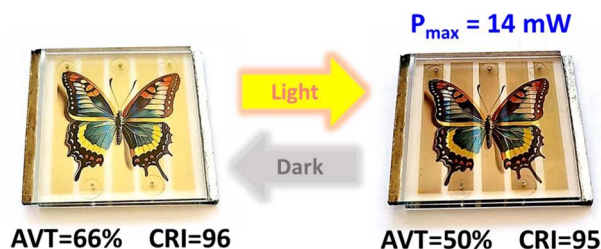
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Monika Michaelis, Lorenzo Cupellini,\* Carl Mensch, Carole C. Perry, Massimo Delle Piane\* and Lucio Colombi Ciacchi



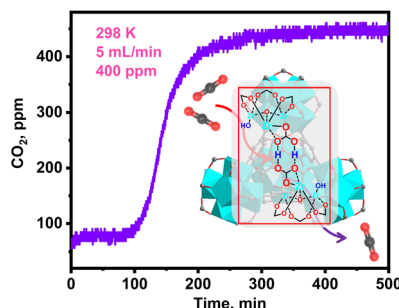
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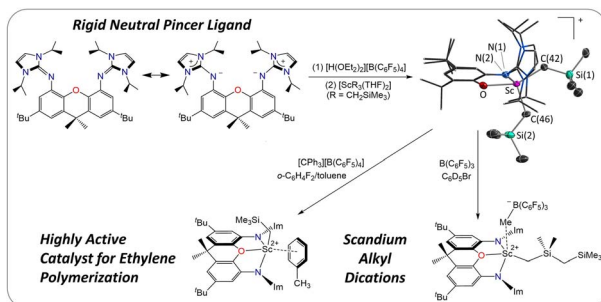
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Hong Dong, Lihua Li and Can Li\*

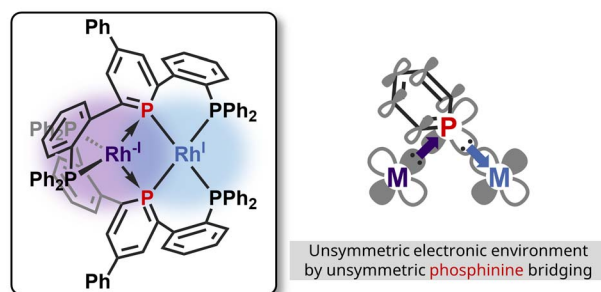
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### Rare earth dialkyl cations and monoalkyl dications supported by a rigid neutral pincer ligand: synthesis and ethylene polymerization

Aathith Vasanthakumar, Jeffrey S. Price and David J. H. Emslie\*

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Koichiro Masada, Kiyosumi Okabe, Shuhei Kusumoto and Kyoko Nozaki\*

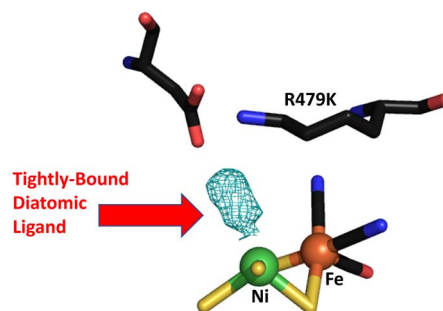




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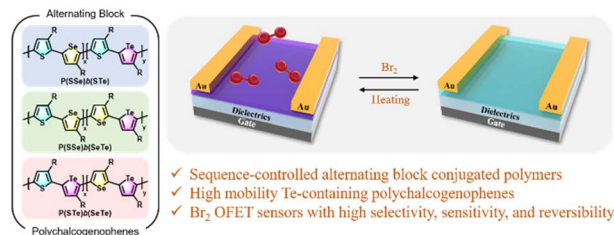
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### Sequence-controlled alternating block polychalcogenophenes: synthesis, structural characterization, molecular properties, and transistors for bromine detection

Kuo-Hsiu Huang, Huai-Hsuan Liu, Kuang-Yi Cheng, Chia-Lin Tsai and Yen-Ju Cheng\*



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### Rhodium-catalyzed annulative approach to N–N axially chiral biaryls via C–H activation and dynamic kinetic transformation

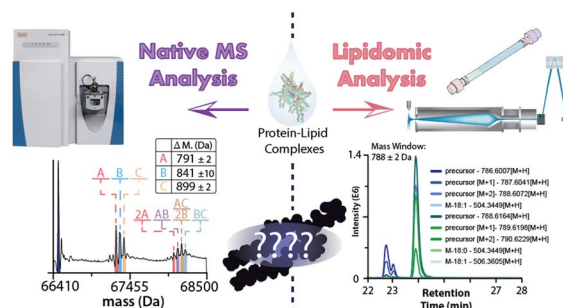
Xiaohan Zhu, Hongli Wu, Yishou Wang, Genping Huang,\* Fen Wang\* and Xingwei Li



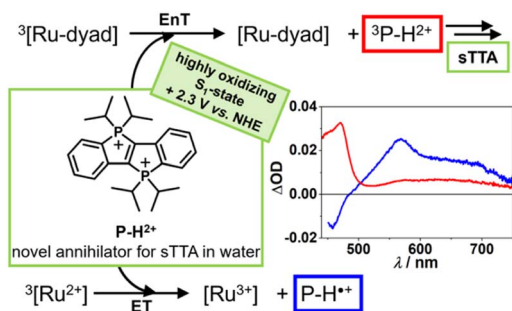
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### Combining native mass spectrometry and lipidomics to uncover specific membrane protein–lipid interactions from natural lipid sources

Yun Zhu, Melanie T. Odenkirk, Pei Qiao, Tianqi Zhang, Samantha Schrecke, Ming Zhou, Michael T. Marty, Erin S. Baker\* and Arthur Laganowsky\*



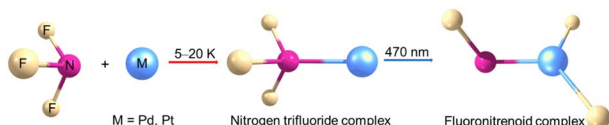
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### Triplet quenching pathway control with molecular dyads enables the identification of a highly oxidizing annihilator class

Maria-Sophie Bertrams, Katharina Hermainski, Jean-Marc Mörsdorf, Joachim Ballmann\* and Christoph Kerzig\*

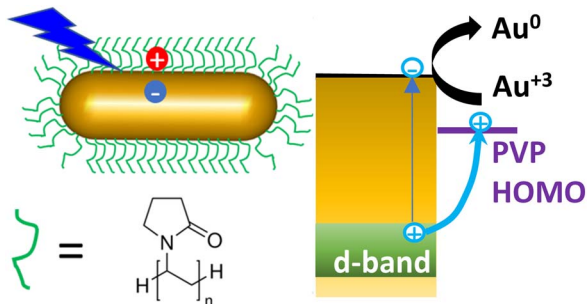
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### Nitrogen Trifluoride Complexes of Group 10 Transition Metals $\text{M}(\text{NF}_3)$ ( $\text{M} = \text{Pd, Pt}$ )

Guohai Deng,\* Yan Lu, Tony Stüker and Sebastian Riedel\*

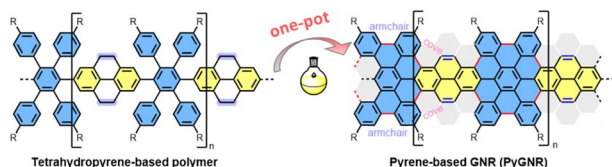
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### Promoting plasmonic photocatalysis with ligand-induced charge separation under interband excitation

Ben Roche, Tamie Vo and Wei-Shun Chang\*

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### Curved graphene nanoribbons derived from tetrahydropyrene-based polyphenylenes via one-pot K-region oxidation and Scholl cyclization

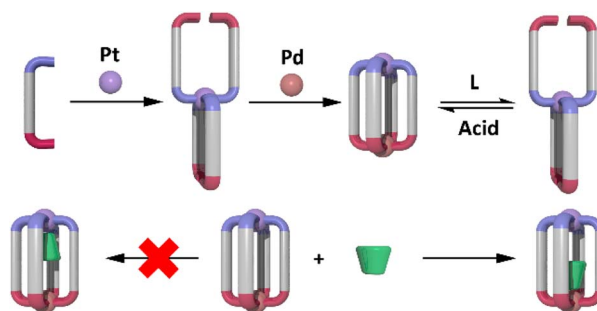
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Exploiting reduced-symmetry ligands with pyridyl and imidazole donors to construct a second-generation stimuli-responsive heterobimetallic  $[\text{PdPtL}_4]^{4+}$  cage

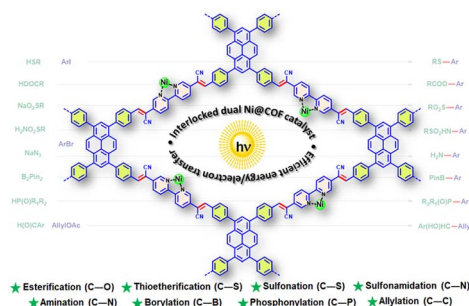
Aston C. Percy, Lynn S. Lisboa, Dan Preston, Nick B. Page,  
Tristan Lawrence, L. James Wright, Christian G. Hartinger  
and James D. Crowley\*



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# A $\pi$ -conjugated covalent organic framework enables interlocked nickel/photoredox catalysis for light-harvesting cross-coupling reactions

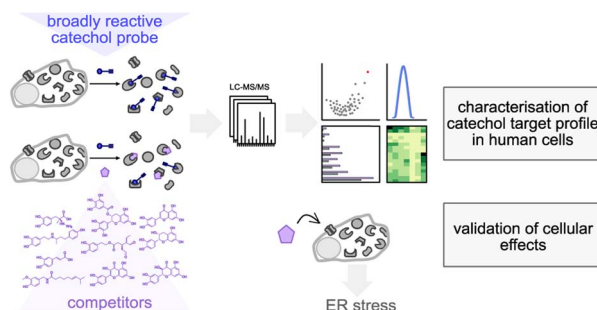
Ayan Jati, Suranjana Dam, Shekhar Kumar, Kundan Kumar  
and Biplab Maji\*



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## A chemical probe unravels the reactive proteome of health-associated catechols

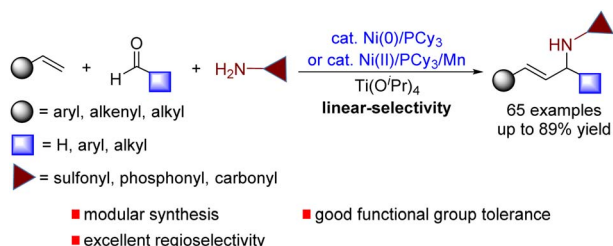
Angela Weigert Muñoz, Kevin M. Meighen-Berger,  
Stephan M. Hacker, Matthias J. Feige and Stephan  
A. Sieber\*



8644

## Practical synthesis of allylic amines *via* nickel-catalysed multicomponent coupling of alkenes, aldehydes, and amides

Wei-Guo Xiao, Bin Xuan, Li-Jun Xiao\* and Qi-Lin Zhou



The diagram illustrates a workflow for identifying non-physiological chemotherapy agents using a biochemical network model. The process is divided into three main steps:

- 1 Virtual Screening:** Structural information (represented by a protein structure) is used for virtual screening. This step involves a "Test Label" matrix with the following data:
 

	TP 17702/23	FP 16/2
TP 3326/13	Antagonists	Antagonists
FP 3326/13	Antagonists	Antagonists

 The matrix is labeled "Antagonists" and "Antagonists" (Predicted Label).
- 2 Al-classifier:** The output of the virtual screening is used by an Al-classifier to predict the effect of the agents.
- 3 effect:** The predicted effect is used to identify non-physiological chemotherapy agents. This step involves a biochemical network model (represented by a network of nodes and edges) and a chemical structure of a non-physiological chemotherapy agent (represented by a chemical structure).

The final output is a "Non-physiological chemotherapy agent" (represented by a chemical structure).

Jonas Goßen, Rui Pedro Ribeiro, Dirk Bier,  
Bernd Neumaier, Paolo Carloni, Alejandro Giorgetti  
and Giulia Rossetti\*

Figure 1 illustrates the crystal structure of  $\text{Na}_{3.95}\text{MnCr}(\text{PO}_{3.95}\text{F}_{0.05})_3$ . The structure is shown as a 3D lattice with various ions and vacancies. Labels indicate the positions of  $\text{Na}(1)$ ,  $\text{Na}$  vacancy,  $[\text{Mn}/\text{CrO}_4]$ ,  $\text{F}$  Substitution,  $[\text{PO}_4]$ , and  $\text{Na}(2)$ . The chemical formula  $\text{Na}_{3.95}\text{MnCr}(\text{PO}_{3.95}\text{F}_{0.05})_3$  is shown at the bottom left, and  $\text{Na}_4\text{MnCr}(\text{PO})_3$  is shown at the bottom right.

Wei Zhang, Yulun Wu, Yuhang Dai, Zhenming Xu,\*  
Liang He, Zheng Li, Shihao Li, Ruwei Chen, Xuan Gao,  
Wei Zong, Fei Guo, Jiexin Zhu, Haobo Dong, Jianwei Li,  
Chumei Ye, Simin Li, Feixiang Wu, Zhian Zhang,\*  
Guanjie He,\* Yangqing Lai\* and Ivan P. Parkin\*

**◆ Salt-Stabilized Alkylzinc Pivalates**

**KEY**

**Alk-ZnOPiv**

**Et-ZnOPiv**

**Co**

**1,2-Dialkylation**

enhanced stability  
easy to handle  
tunable reactivity

unique reactivity of solid Alk-ZnOPiv  
robust cobalt catalyst: ligand-free

twofold Csp<sup>3</sup>-Csp<sup>3</sup> bond formation  
regioselective, stereoretentive fashion

Jie Lin, Kaixin Chen, Jixin Wang, Jiawei Guo, Siheng Dai,  
Ying Hu and Jie Li\*