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IN THIS ISSUE

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Cover

See Demyan E. Prokopchuk *et al.*, pp. 674–677. Image reproduced by permission of Demyan Prokopchuk from *Chem. Commun.*, 2024, 60, 674.



Inside cover

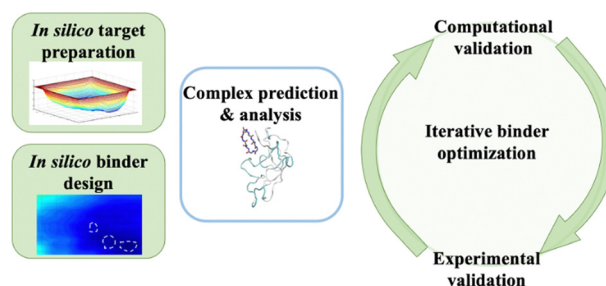
See Takashi Ikawa *et al.*, pp. 678–681. Image reproduced by permission of Takashi Ikawa from *Chem. Commun.*, 2024, 60, 678.

HIGHLIGHT

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Unlocking novel therapies: cyclic peptide design for amyloidogenic targets through synergies of experiments, simulations, and machine learning

Daria de Raffe and Ioana M. Ilie*

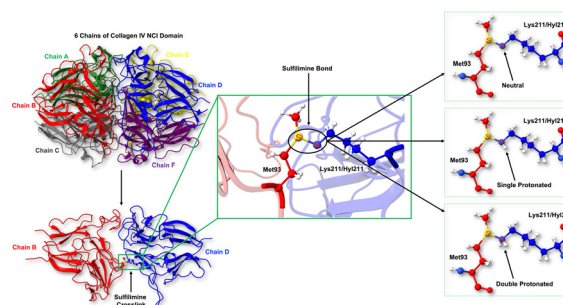


FEATURE ARTICLES

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Sulfilimine bond formation in collagen IV

Anupom Roy and James W. Gauld*



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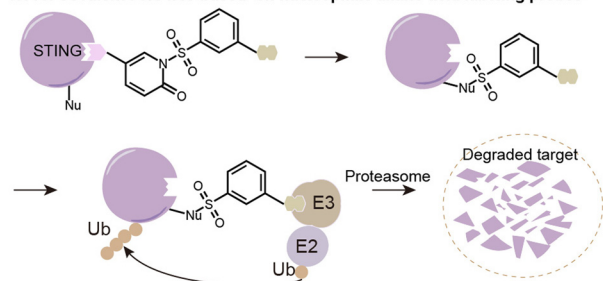
Fundamental questions
Elemental answers



COMMUNICATIONS

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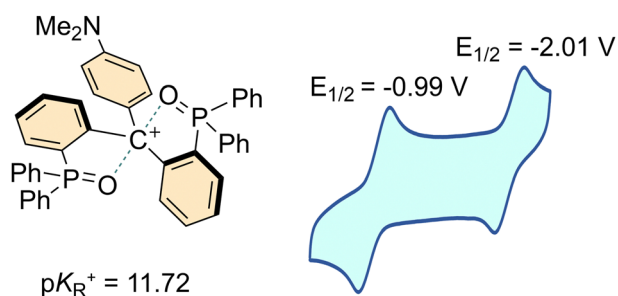
Novel Covalent PROTAC based on nucleophilic amino acid labeling probes



Covalent PROTAC design method based on a sulfonyl pyridone probe

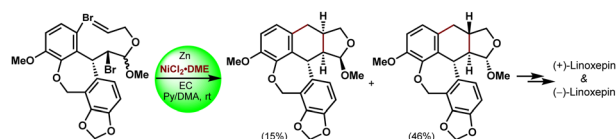
Qinhong Luo, Yaqi Wang, Zhanfeng Hou, Huiting Liang, Licheng Tu, Yun Xing, Chuan Wan, Jianbo Liu, Rui Wang, Lizhi Zhu, Wei Han, Jianlong Wu,* Fei Lu,* Feng Yin* and Zigang Li*

690

Double axial stabilization of a carbenium ion via convergent P=O → C⁺ tetrel bonding

Elishua D. Litle and François P. Gabbaï*

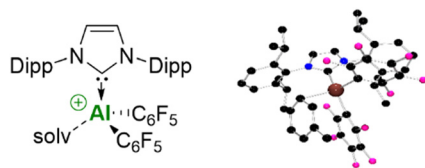
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Intramolecular Ni-catalyzed reductive coupling enables enantiodivergent synthesis of linolepin

Zi-Hao Liu, Jian Xiao,* Qian-Qian Zhai, Xi Tang, Li-Jun Xu, Zhi-Yuan Zhuang, Ya-Wen Wang and Yu Peng*

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- ✓ Lewis Superacidity
- ✓ Isolable and Thermostable
- ✓ Versatile Catalyst

The Lewis superacidic aluminium cation: [(NHC)Al(C₆F₅)₂]⁺

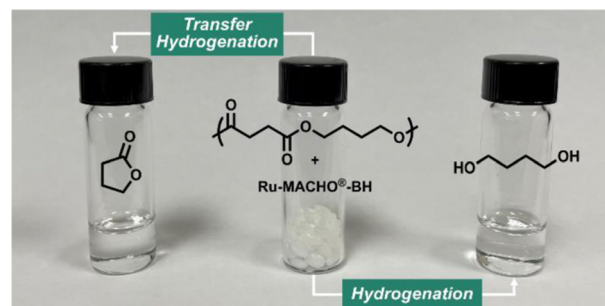
Shaoying Ju, Chi Zhang, Beili Tang, Liu Leo Liu, Douglas W. Stephan* and Yile Wu*



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Highly selective pressure-dependent (transfer) hydrogenative depolymerization of polybutylene succinate

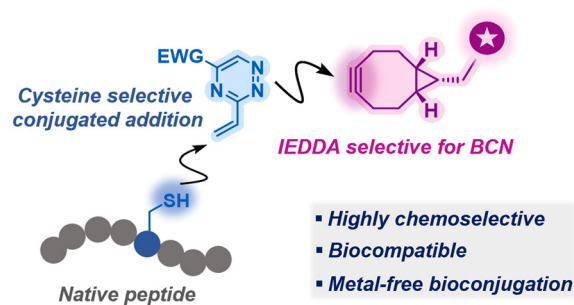
Mary L. Johnson, Rachel L. Fine, Dakota S. Stankowski, Casey A. Koch, Kylie A. Limoges and Nicholas J. Robertson*



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Site-selective peptide functionalisation mediated via vinyl-triazine linchpins

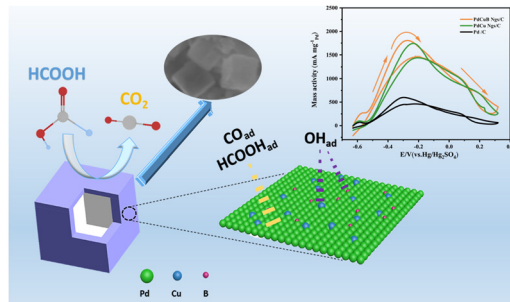
Jack D. Sydenham, Hikaru Seki, Sona Krajcovicova, Linwei Zeng, Tim Schober, Tomas Deingruber and David R. Spring*



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Hollow cubic ternary PdCuB nanocage electrocatalysts with greatly enhanced catalytic performance for formic acid oxidation

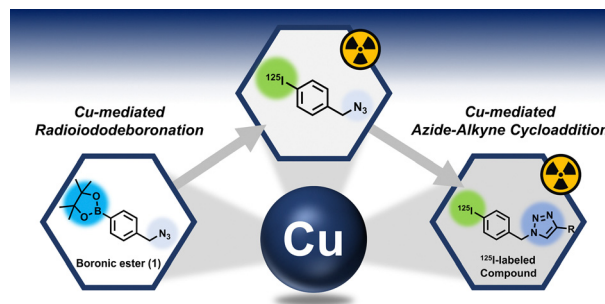
Fu-Kai Yang, Yue Fang, Bing-Tao Gong, Wei-Li Qu,* Chao Deng and Zhen-Bo Wang



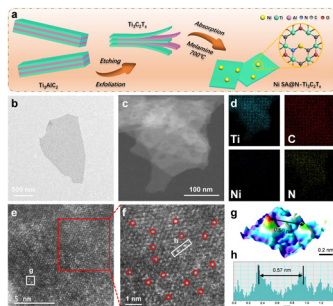
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One-pot two-step radioiodination based on copper-mediated iododeboronation and azide-alkyne cycloaddition reaction

Yuto Kondo, Hiroyuki Kimura,* Ryota Chisaka, Yasunao Hattori, Hidekazu Kawashima and Hiroyuki Yasui



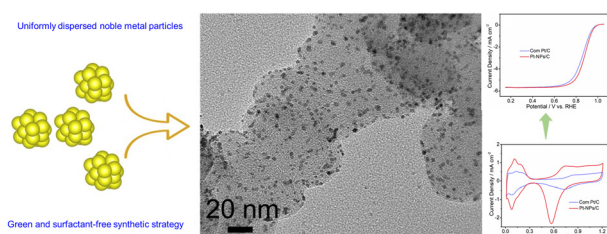
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Isolated Ni-atom catalyst supported on $\text{Ti}_3\text{C}_2\text{T}_x$ with an asymmetrical C–Ni–N structure for the hydrogen evolution reaction

Haosen Yang, Pengfei Wu, Jiajing Pei, Bo Peng* and Qingqing Liu*

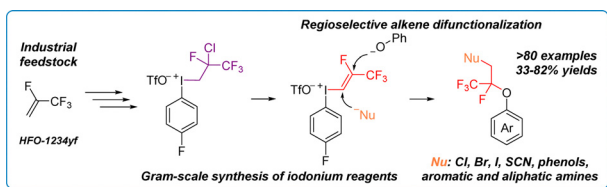
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A universal strategy for green and surfactant-free synthesis of noble metal nanoparticles

Xiaohang Ge, Wei Yong Yuan, Qinhe Guan and Lian Ying Zhang*

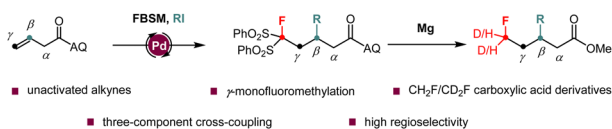
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Iodonium based regioselective double nucleophilic alkene functionalization of a hydrofluoroolefin scaffold

János T. Csenki and Zoltán Novák*

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Palladium-catalyzed carbomonofluoromethylation of unactivated alkenes: rapid access to γ -monofluoromethyl carboxylic acid derivatives

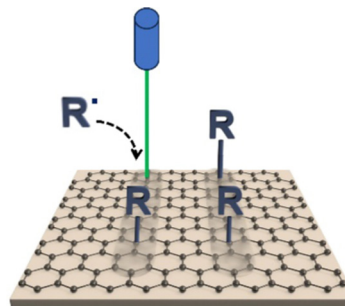
Xiao-Li Liu, Shun-Jun Ji* and Zhong-Jian Cai*



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Spatially resolved fluoroalkylation and alkylation of graphene by direct laser writing

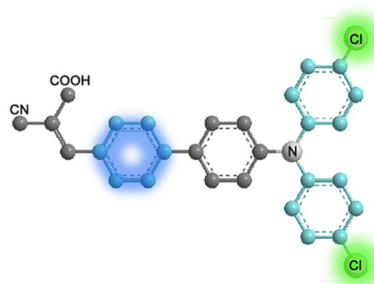
Sabrin Al-Fogra, Sofia Rohde, Marcus Speck, Frank Hauke, Andreas Hirsch and Tao Wei*



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Self-assembled hole-transporting material constructed by chlorination and conjugation strategies toward efficient organic solar cells

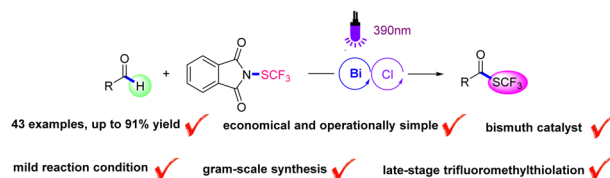
Xinjie Zhou, Renyong Geng,* Shanlei Xu, Xingting Liu, Yahui Yang, Shengzheng Gao, Hao Xu, Weiguo Zhu and Xin Song*



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Visible light-induced hydrogen atom transfer trifluoromethylthiolation of aldehydes with bismuth catalyst

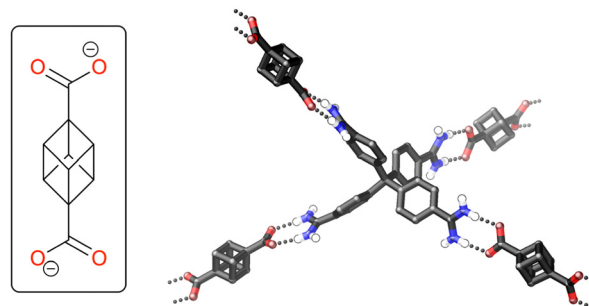
Jun Dong, Zhuang Tang, Luqian Zou, Yongyun Zhou* and Jingchao Chen*



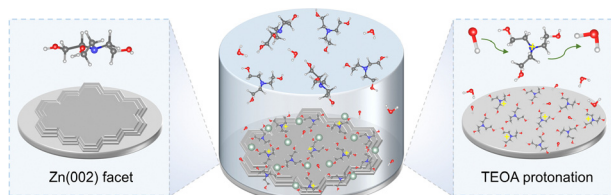
746

Hydrogen-bonded frameworks containing aliphatic 3D linkers show high-capacity water vapour sorption

Phonlakrit Muang-Non, Carmen Zhou, Lauren K. Macreadie* and Nicholas G. White*



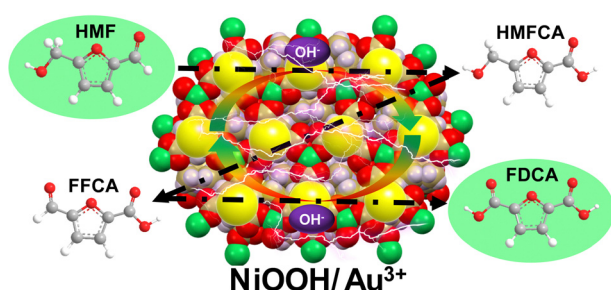
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Zn(002)-preferred and pH-buffering triethanolamine as electrolyte additive for dendrite-free Zn anodes

Wenjing Ge, Huili Peng, Jingjing Dong, Gulian Wang, Lifeng Cui, Wei Sun, Xiaojian Ma and Jian Yang*

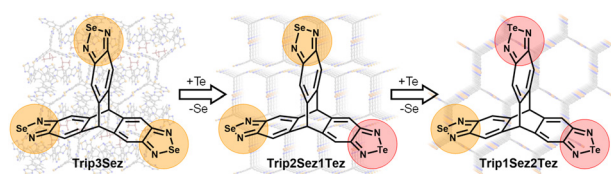
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Controllable evolution of NiOOH/Au³⁺ active species for the oxidation of 5-hydroxymethylfurfural

Xuliang Pang,* Yifei Huang, Huaquan Zhao, Weiqiang Fan* and Hongye Bai*

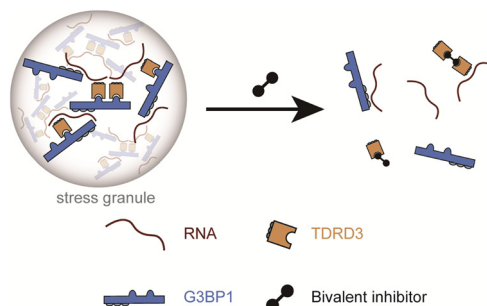
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Influence of donor point modifications on the assembly of chalcogen-bonded organic frameworks

Brian J. Eckstein, Hannah R. Martin, Michael P. Moghadasnia, Arijit Halder, Michael J. Melville, Tara N. Buzinski, Gary J. Balaich and C. Michael McGuirk*

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A bivalent inhibitor against TDRD3 to suppress phase separation of methylated G3BP1

Wei-Wei Fan, Tian Xu, Jia Gao, Han-Yu Zhang, Yan Li, Duo-Duo Hu, Shuaixin Gao, Jia-Hai Zhang, Xing Liu, Dan Liu, Pi-Long Li, Catherine C. L. Wong, Xue-Biao Yao, Yun-Yu Shi, Zhen-Ye Yang, Xi-Sheng Wang* and Ke Ruan*



CORRECTION

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Correction: Velocity map images from surface-hopping; reactive scattering of OH ($^2\Sigma^+$) + H₂ ($^1\Sigma_g^+$)

Christopher Robertson* and Martin J. Paterson*

