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Cover

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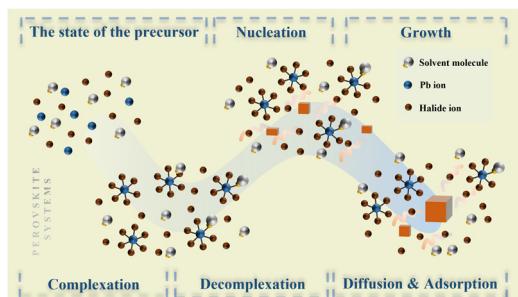
See Yanan Tang, Feng Li et al., pp. 8803–8805. Image reproduced by permission of Feng Li from *Chem. Commun.*, 2023, 59, 8803.

HIGHLIGHT

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Growth mechanism of metal halide perovskite single crystals in solution

Mingquan Liao, Mengling Xia,* Yinsheng Xu, Ping Lu and Guangda Niu*

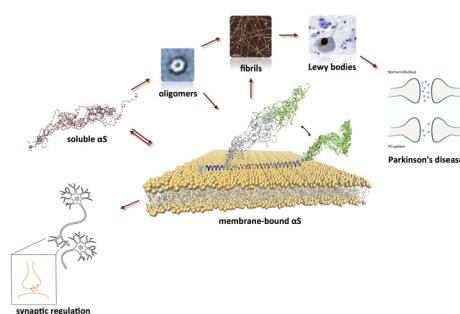


FEATURE ARTICLES

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α -Synuclein and biological membranes: the danger of loving too much

Silvia Mansueto, Giuliana Fusco* and Alfonso De Simone*



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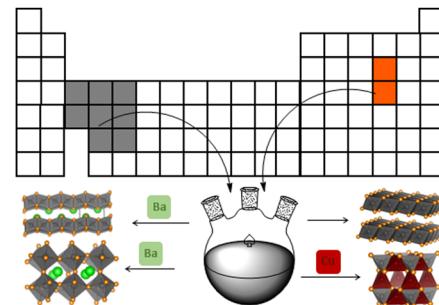


FEATURE ARTICLES

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Solution-phase synthesis of group 3–5 transition metal chalcogenide inorganic nanomaterials

Daniel Zilevu and Sidney E. Creutz*

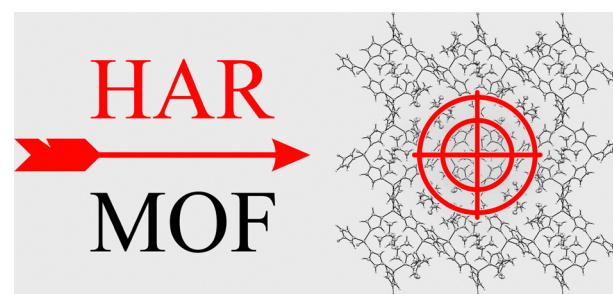


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Hirshfeld atom refinement of metal–organic frameworks for accurate positioning of hydrogen atoms and disorder analysis

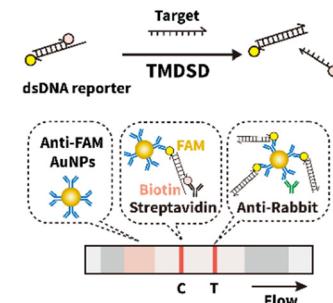
Yizhi Xu, Michał L. Chodkiewicz, Magdalena Woińska, Damian Trzybiński, Ivana Brekalo, Filip Topić, Krzysztof Woźniak* and Mihails Arhangelskis*



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Enabling a universal lateral flow readout for DNA strand displacement *via* disassembling chemical labels

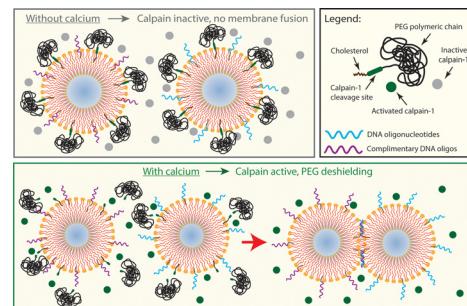
Wanting Peng, Yun Tan, Chenlan Shen, Yanan Tang* and Feng Li*



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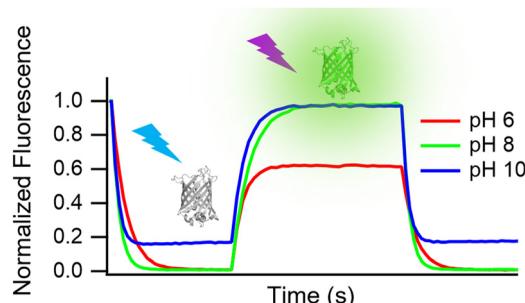
Calcium-triggered DNA-mediated membrane fusion in synthetic cells

Yen-Yu Hsu, Samuel J. Chen, Julio Bernal-Chanchavac, Bineet Sharma, Hossein Moghimianavval, Nicholas Stephanopoulos and Allen P. Liu*



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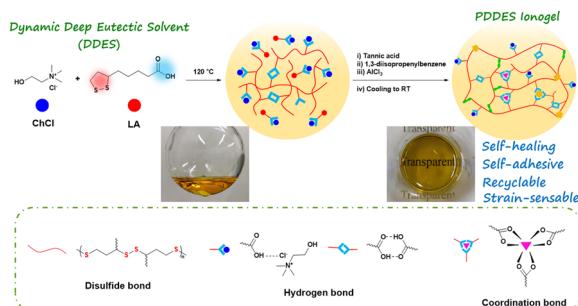
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Quantitative determination of the full switching cycle of photochromic fluorescent proteins

Anaïs C. Bourges, Benjamin Moeyaert, Thi Yen Hang Bui, Franziska Bierbuesse, Wim Vandenberg and Peter Dedecker*

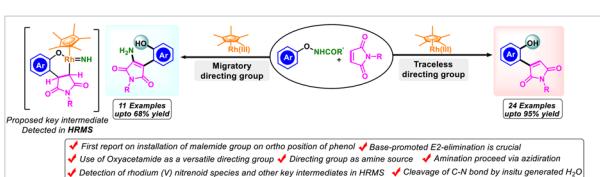
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Development of multifunctional ionogels derived from a dynamic deep eutectic solvent

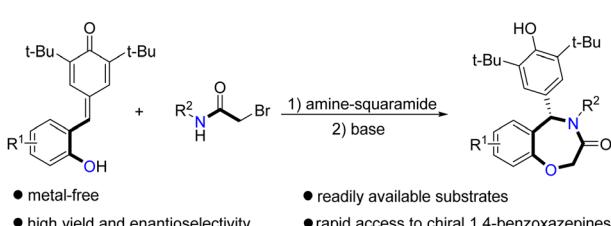
Jintao Li, Mingzu Zhang, Jinlin He* and Peihong Ni

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Carboamination and olefination: *ortho* C–H functionalization of phenoxyacetamide

Tanmayee Nanda, Shubham Kumar Dhal, Gopal Krushna Das Adhikari, Namrata Prusty and Ponneri C. Ravikumar*

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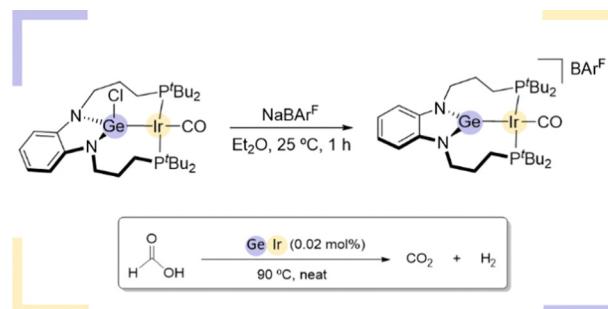
Metal-free and enantioselective synthesis of 1,4-benzoxazepines from *para*-quinone methide derivatives and α -bromohydroxamates

Suo-Suo Qi, Xin Luo, Xiao-Ping Sun, Jing-Jing Zhai, Ming-Ming Chu,* Jin Chen,* Yi-Feng Wang* and Dan-Qian Xu*

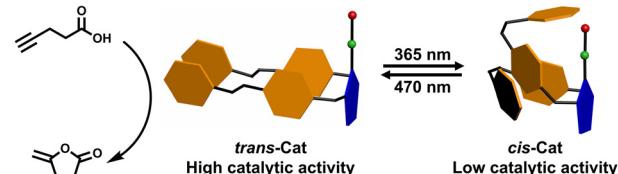


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A genuine germylene PGeP pincer ligand for formic acid dehydrogenation with iridiumMarta Fernández-Buenestado, Rosie J. Somerville,
Joaquín López-Serrano* and Jesús Campos*

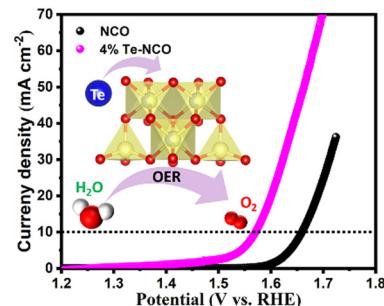
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A photoresponsive gold catalyst based on azobenzene-functionalized NHC ligandsJianghua Liu, Eduard O. Bobylev, Bas de Bruin and
Joost N. H. Reek*

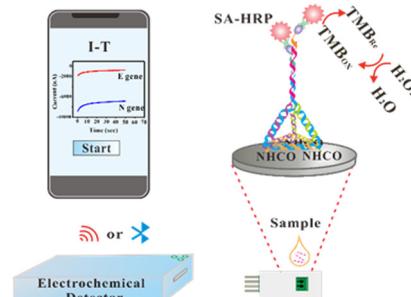
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Tellurium-induced defect engineering for boosting the oxygen evolution reaction of spinel oxide

Shu-Fang Li,* Xin Li and Dong Yan*



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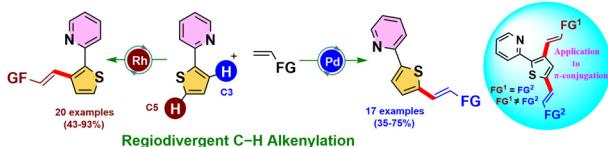
A DNA framework-based dual signal amplification biosensor for portable detection of SARS-CoV-2 and its mutationsYanzhi Dou, ZiYue Huang, Tie Li, Nokuzola Maboyi,
Xianting Ding, Shiping Song* and Jing Su*

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Catalyst-controlled regiodivergent C–H bond alkenylation of 2-pyridylthiophenes

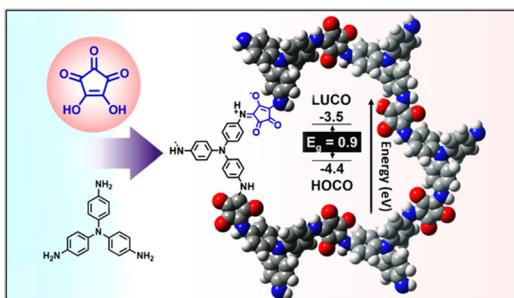
Qiang Zhang, Pengfei Zhou, Yaokun Zhao, Yeran Liu, Taoyuan Liang, Jun Jiang* and Zhuan Zhang*



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A croconic acid-derived narrow band gap conjugated microporous polymer

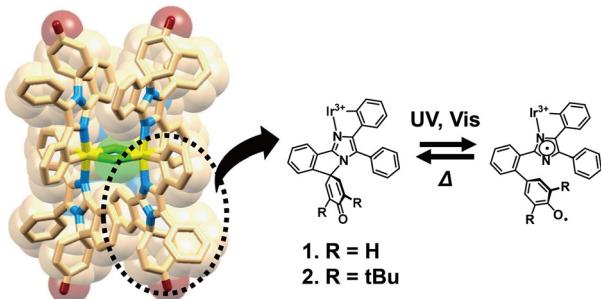
S. Enoch, Atul B. Nipate, Vellanki Lakshmi* and Rajeswara Rao Malakalapalli*



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Photochromic dinuclear iridium(III) complexes having phenoxy-imidazolyl radical complex derivatives

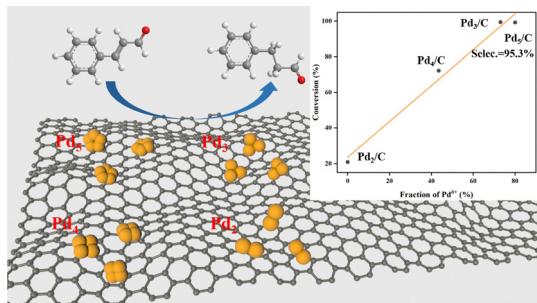
Yoshinori Okayasu, Takuya Miyahara, Rintaro Shimada, Yuki Nagai, Akira Sakamoto, Jiro Abe* and Yoichi Kobayashi*



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Electronic structure modulation of Pd_n (n = 2–5) nanoclusters in the hydrogenation of cinnamaldehyde

Jie Tang, Tingting Ge, Wenxuan Wang, Chao Liu* and Jiahui Huang*

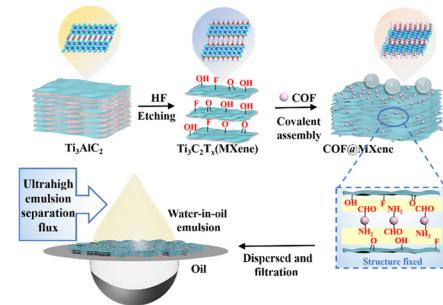


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A robust COF@MXene membrane for ultra-high flux of water-in-oil emulsion separation

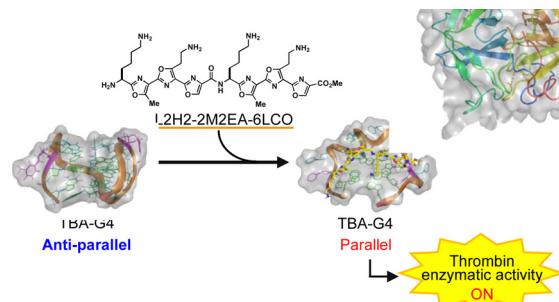
Jing Wang, Xiangqian Xu, Yujian Zhou, Wen Ma, Fushan Wang, Yongjun Zhou and Xuehu Men*



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Regulation of thrombin activity by ligand-induced topological alteration in a thrombin-binding aptamer

Shogo Sasaki, Yue Ma, Takatsugu Hirokawa, Kazunori Ikebukuro, Masayuki Tera* and Kazuo Nagasawa*



CORRECTION

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Correction: Pyrrolopyrrole aza-BODIPY near-infrared photosensitizer for dual-mode imaging-guided photothermal cancer therapy

Chaolong Wu, Xiaoyu Huang, Yunyun Tang, Wanyue Xiao, Liguo Sun,* Jinjun Shao* and Xiaochen Dong*

