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Chemical Communications

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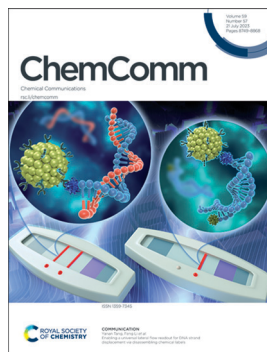
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ISSN 1359-7345 CODEN CHCOFS 59(57) 8749-8868 (2023)



### Cover

See Krzysztof Woźniak, Mihails Arhangel'skis *et al.*, pp. 8799–8802. Image reproduced by permission of Damian Trzybiński from *Chem. Commun.*, 2023, 59, 8799.



### Inside cover

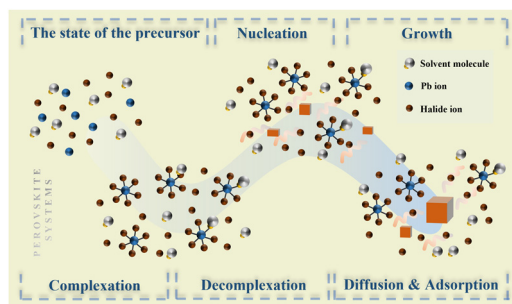
See Yanan Tang, Feng Li *et al.*, pp. 8803–8805. Image reproduced by permission of Feng Li from *Chem. Commun.*, 2023, 59, 8803.

## HIGHLIGHT

8758

### Growth mechanism of metal halide perovskite single crystals in solution

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

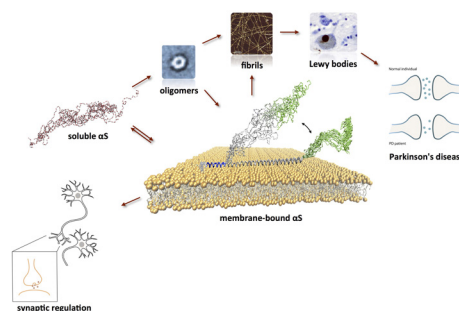


## FEATURE ARTICLES

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### $\alpha$ -Synuclein and biological membranes: the danger of loving too much

Silvia Mansueto, Giuliana Fusco\* and Alfonso De Simone\*



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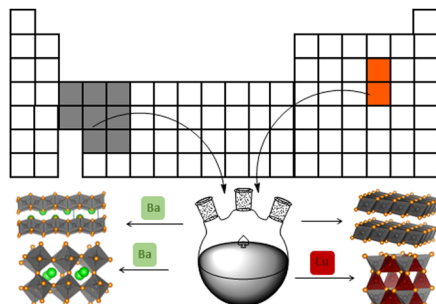


## FEATURE ARTICLES

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

Daniel Zilevu and Sidney E. Creutz\*

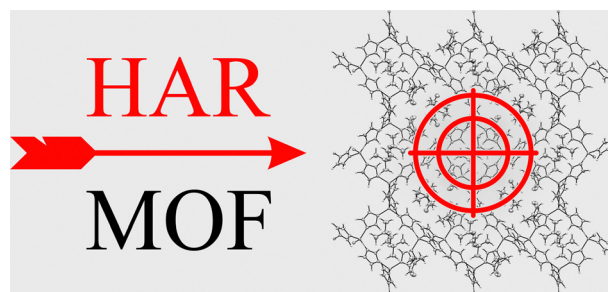


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## Hirshfeld atom refinement of metal–organic frameworks for accurate positioning of hydrogen atoms and disorder analysis

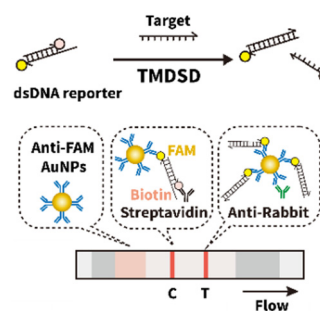
Yizhi Xu, Michał L. Chodkiewicz, Magdalena Woińska, Damian Trzybiński, Ivana Brekalo, Filip Topić, Krzysztof Woźniak\* and Mihails Arhangelis\*



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

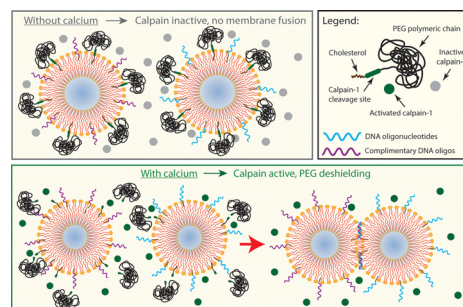
Wanting Peng, Yun Tan, Chenlan Shen, Yanan Tang\* and Feng Li\*



8806

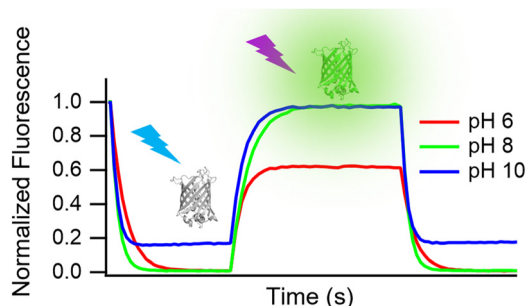
## Calcium-triggered DNA-mediated membrane fusion in synthetic cells

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



## COMMUNICATIONS

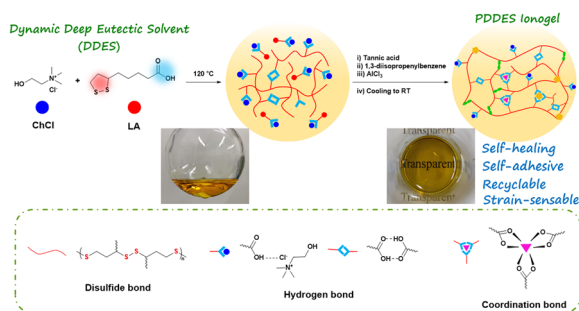
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## Quantitative determination of the full switching cycle of photochromic fluorescent proteins

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

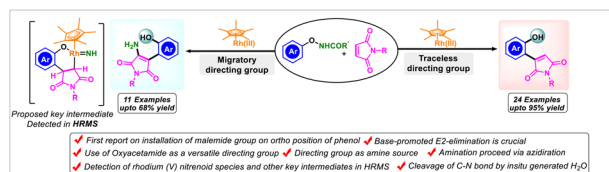
8814



## Development of multifunctional ionogels derived from a dynamic deep eutectic solvent

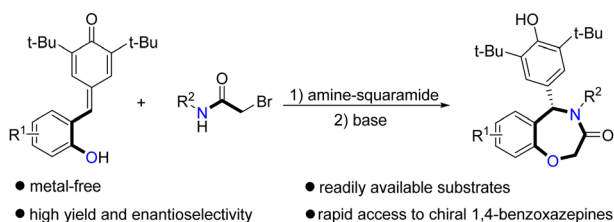
Jintao Li, Mingzu Zhang, Jinlin He\* and Peihong Ni

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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  $\alpha$ -bromohydroxamates

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

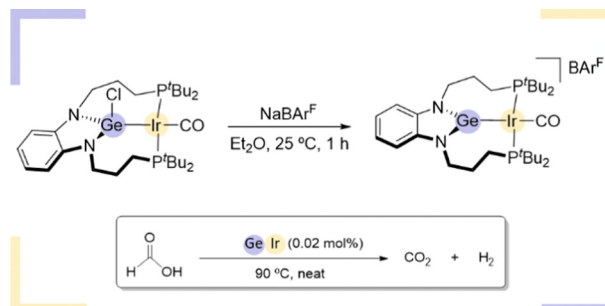


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## A genuine germylene PGeP pincer ligand for formic acid dehydrogenation with iridium

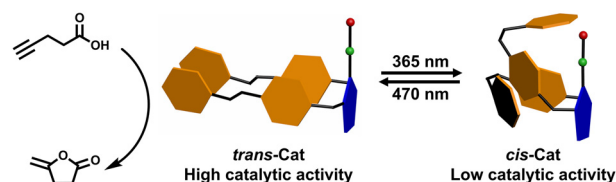
Marta Fernández-Buenestado, Rosie J. Somerville, Joaquín López-Serrano\* and Jesús Campos\*



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## A photoresponsive gold catalyst based on azobenzene-functionalized NHC ligands

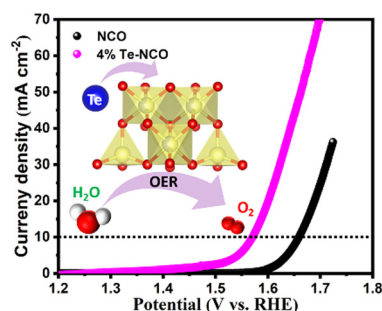
Jianghua Liu, Eduard O. Bobylev, Bas de Bruin and Joost N. H. Reek\*



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

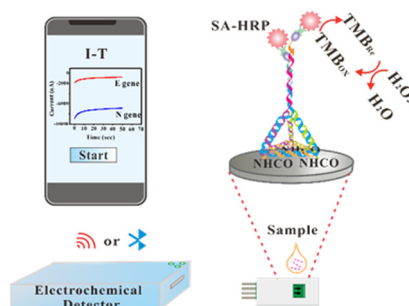
Shu-Fang Li,\* Xin Li and Dong Yan\*



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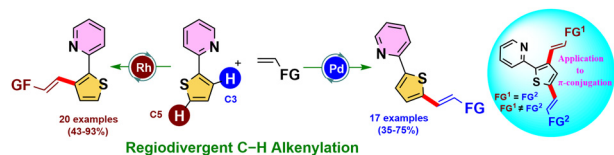
## A DNA framework-based dual signal amplification biosensor for portable detection of SARS-CoV-2 and its mutations

Yanzhi Dou, ZiYue Huang, Tie Li, Nokuzola Maboyi, Xianting Ding, Shiping Song\* and Jing Su\*





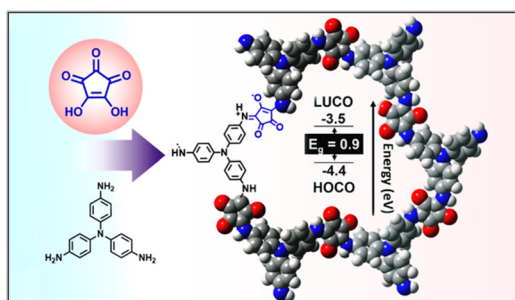
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### Catalyst-controlled regiodivergent C–H bond alkenylation of 2-pyridylthiophenes

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

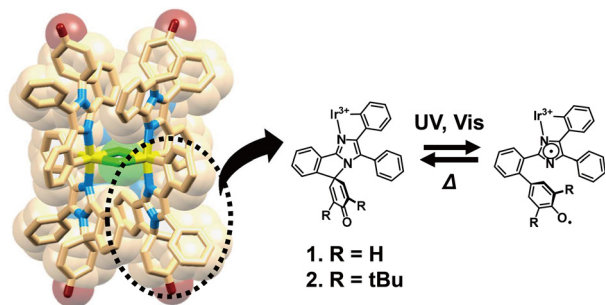
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### A croconic acid-derived narrow band gap conjugated microporous polymer

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

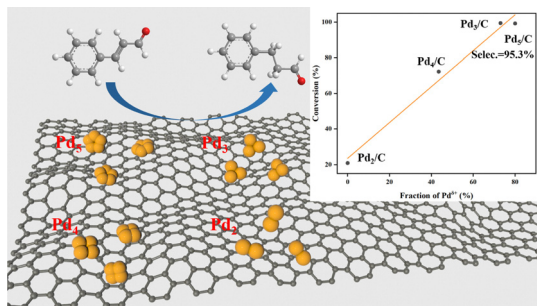
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### Photochromic dinuclear iridium(III) complexes having phenoxyl-imidazolyl radical complex derivatives

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

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### Electronic structure modulation of Pd<sub>n</sub> (*n* = 2–5) nanoclusters in the hydrogenation of cinnamaldehyde

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

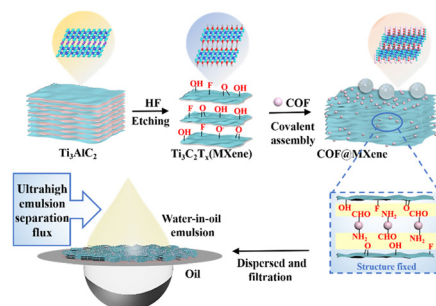


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### A robust COF@MXene membrane for ultra-high flux of water-in-oil emulsion separation

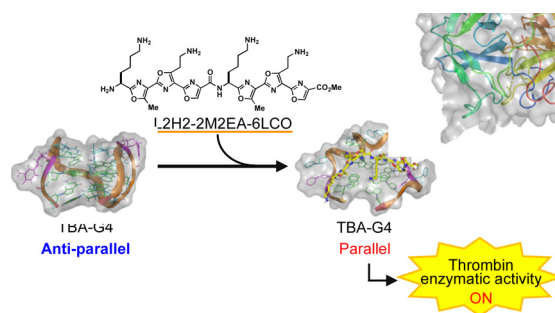
Jing Wang, Xiangqian Xu, Yujian Zhou, Wen Ma, Fushan Wang, Yongjun Zhou and Xuehu Men\*



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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, Ligu Sun,\* Jinjun Shao\* and Xiaochen Dong\*

