

## IN THIS ISSUE

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### Cover

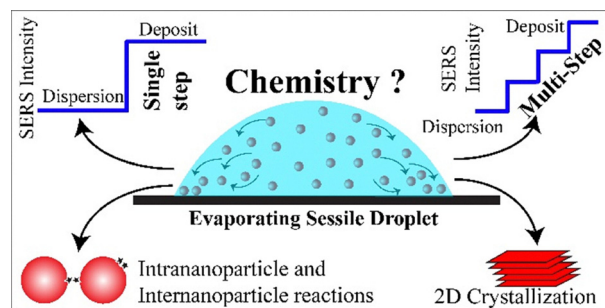
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*et al.*, pp. 9875–9879.  
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## FEATURE ARTICLES

9773

### Chemistry in evaporating sessile droplets

Sujay Paul and Arun Chattopadhyay\*



9789

### Nitrogen editing of aromatic rings: from skeletal editing to fragment editing

Hikaru Nakahara and Junichiro Yamaguchi\*



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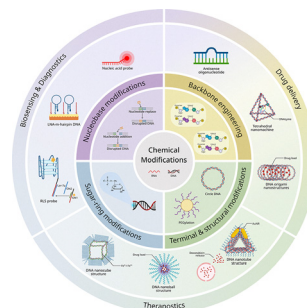


## REVIEWS

9802

### Chemically modified nucleic acid nanodevices: molecular engineering for drug delivery, theranostics, biosensing and diagnostics

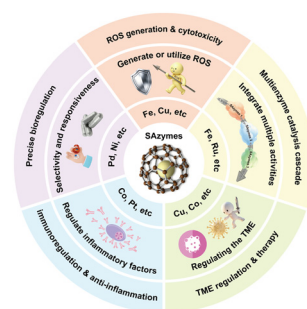
Caini Wang, Shuyao Yang, Ting Wang, Tiancong Wang, Meixia Wang, Zhipeng Su, Jun Zhu, Chunhui Zhang,\* Fang He\* and Hong-Hui Wang\*



9828

### Single-atom nanozymes for antitumor catalytic therapy: structural engineering, catalytic mechanism, and advanced therapeutic strategies

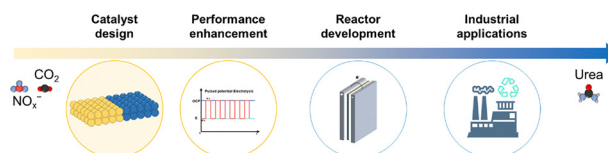
Zhangsibo Yu, Wanli Ma, Xue Wei, Weimin Xie,\* Xiao-Le Han\* and Yi Liu\*



9850

### Carbon–nitrogen co-reduction for urea electrosynthesis: bridging fundamental research and industrial applications

Shuai Hou, Yuhang Liu, Lu Liu, Fuhan Ouyang, Wenfu Xie,\* Yanshan Gao and Qiang Wang\*

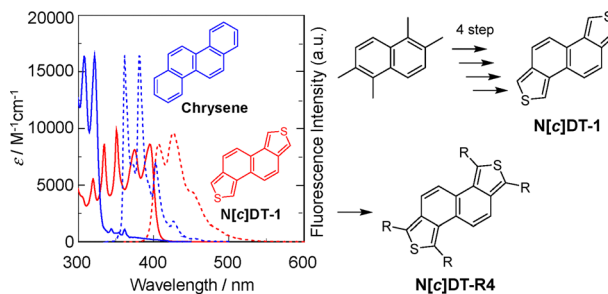


## COMMUNICATIONS

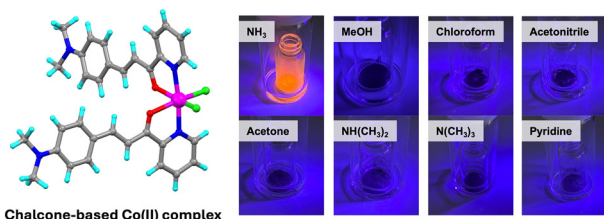
9875

### Exploration of naphtho[c]dithiophenes: synthesis and optical and electrochemical properties of naphtho[1,2-c:5,6-c']dithiophenes

Yuki Okazaki, Shogo Amimoto, Kumpei Kozuka, Satoru Maekawa, Keiichi Imato and Yousuke Ooyama\*



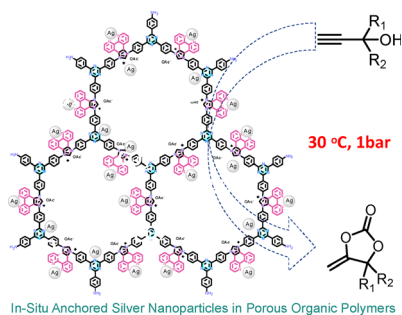
9880

Highly Selective NH<sub>3</sub> detection via luminescence switching

## Selective ammonia sensing through reversible vapochromism and luminescence ON–OFF switching of a chalcone-based Co(II) complex

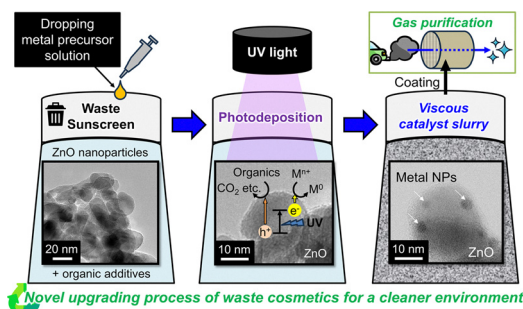
Mai Mukoyama, Masashi Hashimoto, Yuta Shudo, Hajime Yagi, Hayato Kikuchi and Manabu Nakaya\*

9885

*In situ* anchored silver nanoparticles in porous organic polymers for efficient CO<sub>2</sub> cyclization with propargylic alcohols

Lunbao Chen, Tao Yang, Chunliang Yang and Tianxiang Zhao\*

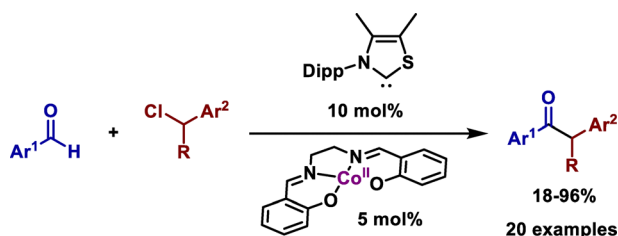
9889



## Upcycling disposed sunscreen waste into supported catalysts for environmental purification

Toshiki Shimizu, Fuminao Kishimoto,\*  
Yasuhiro Sakamoto, Minh Thuan Pham,  
Ryo Sasaki, Rie Nakamura and Kazuhiro Takanabe\*

9894



## Cross-coupling of aryl aldehydes and benzyl chlorides enabled by dual N-heterocyclic carbene/cobalt catalysis

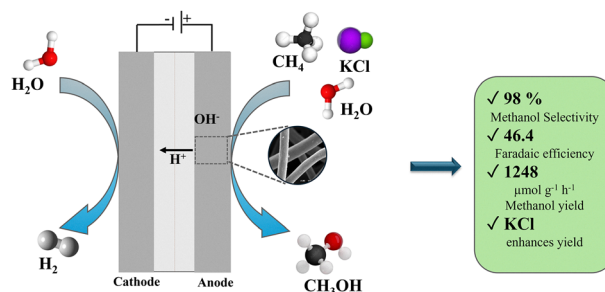
Hassan Jomaa, David Martin and Eder Tomás-Mendivil\*



9899

### Selective electro-oxidation of methane to methanol at room temperature using a flow reactor

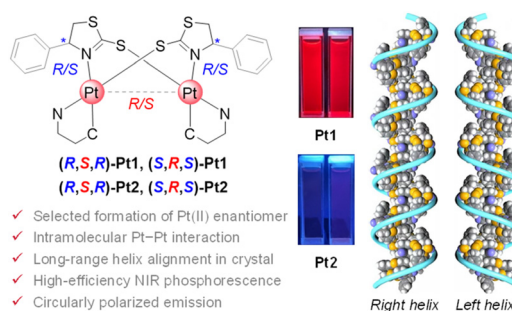
Muhammad Mustapha Adam and Chanbasha Basheer\*



9904

### Unlocking efficient near-infrared circularly polarized phosphorescence reaching 800 nm in cyclometalated Pt(II) complexes

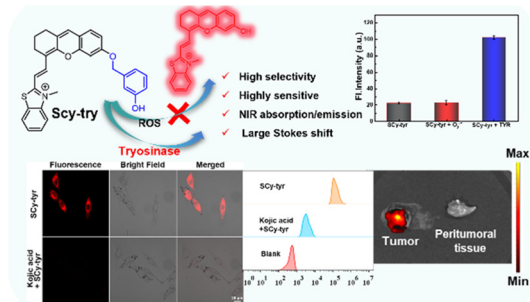
Shilin Gu, Dongsheng Li, Deng Long, Xinglin Yu, Wentao Li,\* Sihan Ma\* and Peng Tao\*



9909

### Rational engineering of a highly sensitive and specific tyrosinase probe for guiding melanoma surgical resection

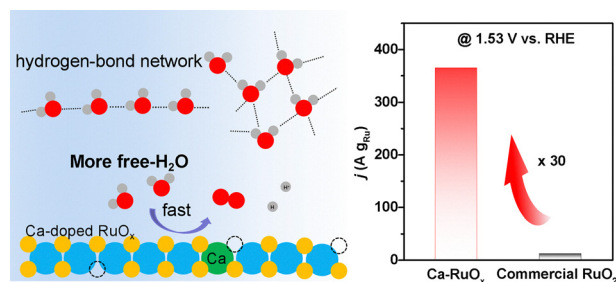
Yifeng Jian, Yongnan Luo, Ke Li,\* Minghui Yang\* and Xiang Chen\*



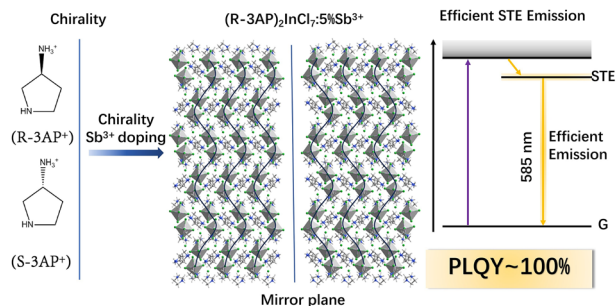
9914

### Regulating interfacial water via Ca-doped RuO<sub>x</sub> for enhanced acidic oxygen evolution reaction

Gaoliang Fu,\* Lina Du, Dengxu Liu, Baocheng Yang and Shouren Zhang\*



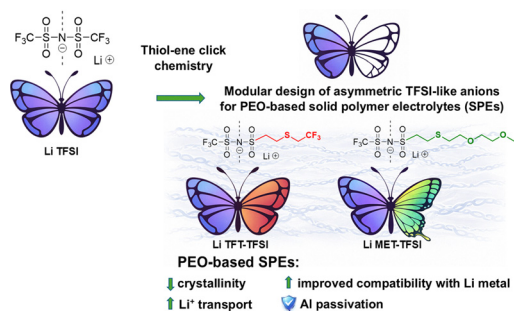
9918



### Sb<sup>3+</sup>-doped indium-based halides with near-unity photoluminescence quantum yield and circularly polarized luminescence

Xiaoqi Li, Suo Yang, Min Tao and Yin Xiao\*

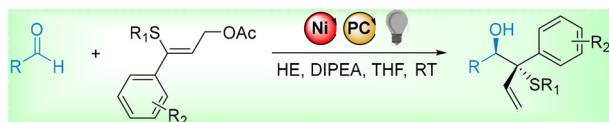
9922



### Low melting non-corrosive asymmetric thioether-TFSI Li salts for solid polymer electrolytes

Vladislav Y. Shevtsov, Francesco Gambino, Daniil R. Nosov, Jérôme Guillot, Silvia Porporato, Giuseppe A. Elia, Claudio Gerbaldi\* and Alexander S. Shaplov\*

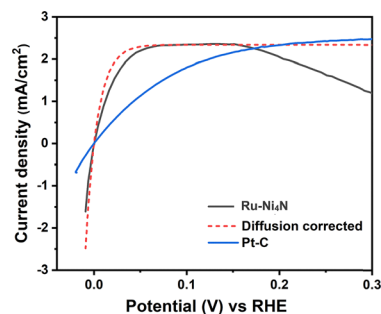
9927



### Diastereoselective synthesis of $\beta$ -hydroxy allylic tertiary sulfides via nickel/photoredox cooperative catalysis

Heyang Xu, Zhixian Wu, Jing-Ran Shan\* and Lei Shi\*

9932



### Ni<sub>4</sub>N interspersed Ru for enhanced hydrogen oxidation reaction in alkaline media

Anagha Usha Vijayakumar, Manoj Shanmugasundaram, Vineesh Thazhe Veetil and David Zitoun\*

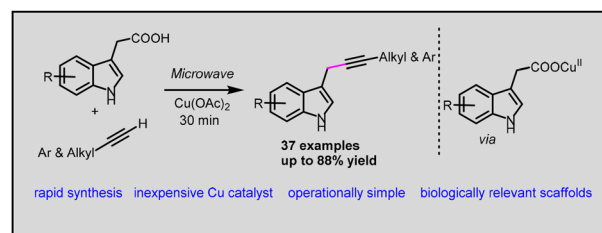


## COMMUNICATIONS

9937

### Preactivation-free direct decarboxylative alkylation of indoleacetic acids: access to alkyne-functionalized indoles

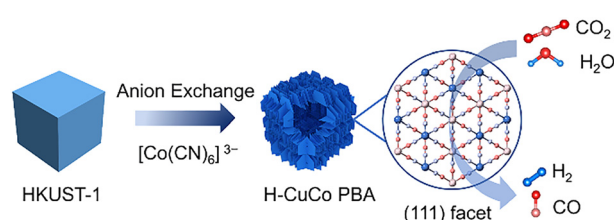
Gui-Ting Song, Yuan Zhou, Xue-Ying Yang, Li-Min Zhang, Lan-Bin He, Li-Ping Qing, Cheng-Mi Lin, Zhuo-Er Chen and Chuan-Hua Qu\*



9942

### Facet-engineered Prussian blue analog nanosheet-assembled superstructures for efficient syngas production

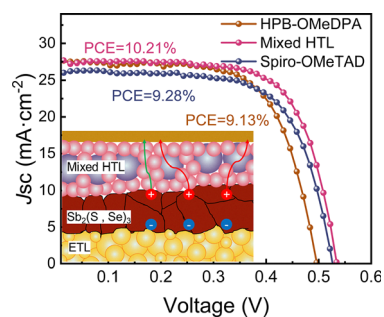
Quan Zhou, Shuai Li, Zixuan Li, Shibao Liu, Fan Gu, Binghui Yu, Qiangqiang Qiao, Yujing Liu, Huadong Yuan, Jianmin Luo, Yao Wang, Shihui Zou, Peng Shi, Xinyong Tao and Jianwei Nai\*



9947

### 10.21% efficiency Sb<sub>2</sub>(S,Se)<sub>3</sub> thin film solar cells with a mixed hole-transport material

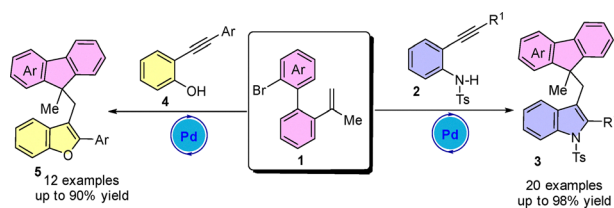
Aoxing Liu, Pengwei Fang, Rongfeng Tang, Pingwu Du\* and Tao Chen\*



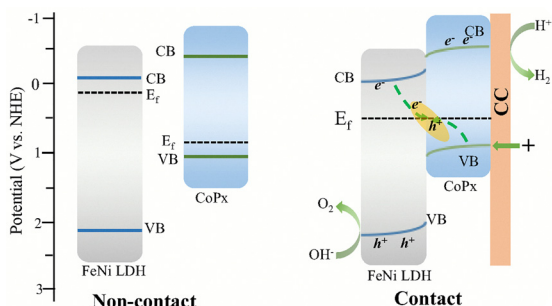
9951

### Synthesis of fluorene-indole/benzofuran bicyclic molecules through palladium-catalyzed carboheterofunctionalization of alkynes

Huirong Li, Wenyu Zhang, Shuwei Zhang, Wei Jiang, Weiming Hu,\* Junliang Zhang\* and Lei Wang\*



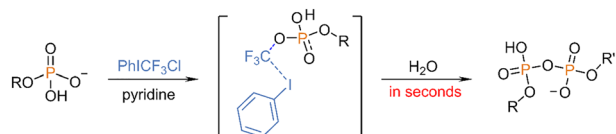
9955



### Interfacial electronic engineering in an amorphous NiFe LDH/low-crystallinity CoP<sub>x</sub> heterostructure for efficient water splitting

Minghui Quan, Yunxiang Liu, Zufeng He, Qian Hu, Abebe Reda Woldu\* and Liangsheng Hu\*

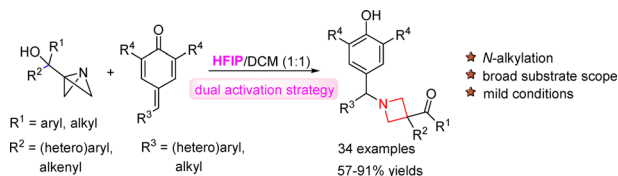
9960



### Rapid synthesis of nucleoside diphosphates accelerated by water

Song Yang, Shuai Wang, Bing He, Qianqian Wu, Fengling Song, Pengcheng Wang and Debin Ji\*

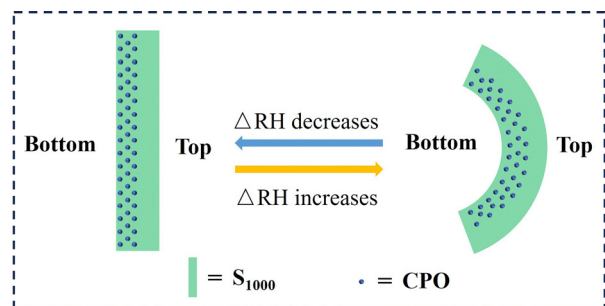
9964



### HFIP-promoted strain-release rearrangement/*N*-functionalization of azabicyclo[1.1.0]butanes with *para*-quinone methides for the synthesis of azetidines

Haijian Wu, Manman Sun,\* Zhiming Wang, Jianguo Yang and Gangguo Zhu\*

9969



### Humidity-responsive Janus polymer–inorganic films formed by evaporation-induced vertical segregation

Sijie Yang, Boxiang Peng, Jiahao Zhang, Xia Sun, Xiaojie Li, Bing Yu and Yin Ning\*

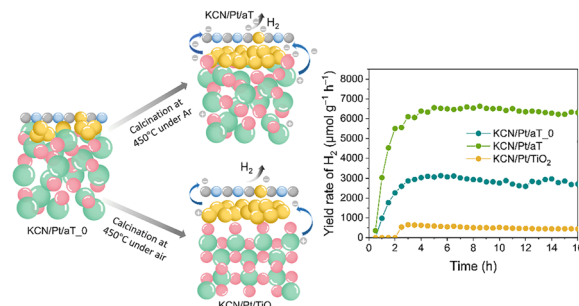


## COMMUNICATIONS

9974

Crystallization-suppressed annealing preserves amorphous TiO<sub>2</sub> interfaces and strengthens Pt coupling for photocatalysis

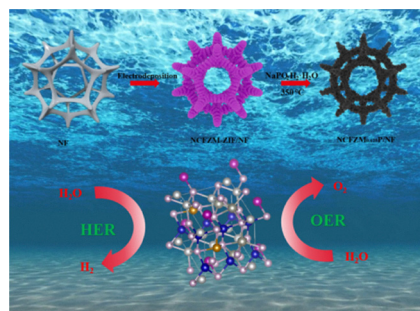
Luyu Zhou, Quan Xie,\* Xiangyan Luo\* and Junlong Tian\*



9978

## Mn-tuned active microenvironment for synergistic regulation of key intermediate adsorption in high-performance alkaline water splitting

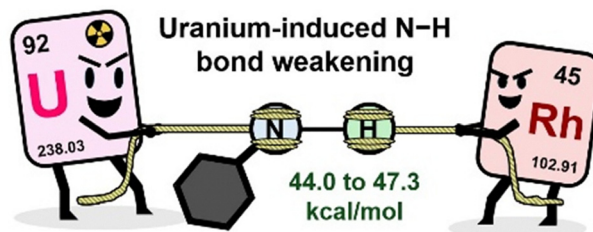
Hao Yi, Wenyu Yan, Fei Qi, Zhongke Luo, Menghan Li and Chao Wang\*



9983

## Proton-coupled electron transfer driven by coordination-induced bond weakening at a trivalent uranium center

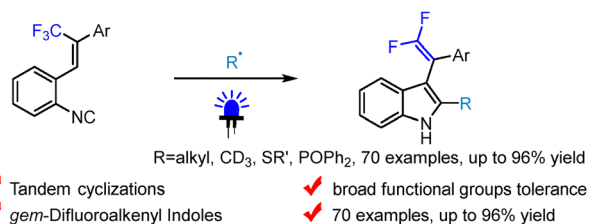
I. J. Huerfano, Tate M. Quinn, Ahmed Kangmenna, Matthias Zeller and Suzanne C. Bart\*



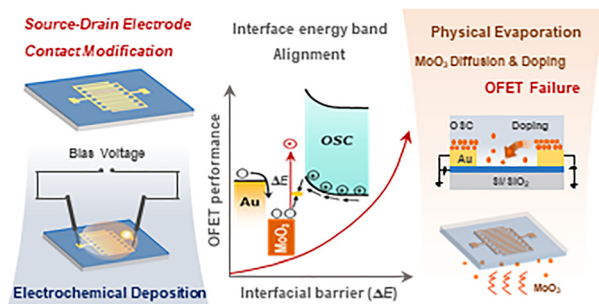
9988

Construction of *gem*-difluoroalkenyl indoles via photoinduced Fukuyama-type cyclization of isocyanides

Jingxuan Zhang, Haixia Zhao, Yue Pu, Kaijie Tang, He Chen, Qihang Huang, Chen Chen\* and Jian Wang\*



9993



## Electrochemical contact modification with MoO<sub>3</sub>: a strategy to enhance performance of p-type organic thin-film transistors

Xuanhe Li, Yonghua Zhou, Zhenxin Yang, Fushun Li, Jiale Su, Dengke Wang, Zhenghong Lu and Qiang Zhu\*

