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Cover

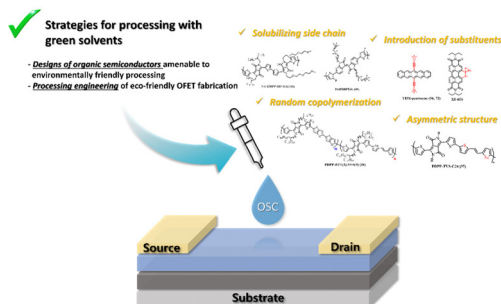
See Hikaru Sakamoto and Masataka Ohtani, pp. 5039-5042. Image reproduced by permission of Masataka Ohtani from *Chem. Commun.*, 2023, 59, 5039.

HIGHLIGHT

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Current developments of eco-friendly organic field-effect transistors: from molecular engineering of organic semiconductors to greener device processing

Gyeong Seok Lee, Hyeok-jin Kwon, Tae Kyu An* and Yun-Hi Kim*

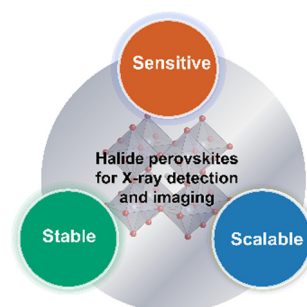


FEATURE ARTICLES

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Halide perovskites for sensitive, stable and scalable X-ray detection and imaging

Shujie Tie, Siyin Dong, Ruihan Yuan, Bing Cai, Jianguo Zhu* and Xiaojia Zheng*



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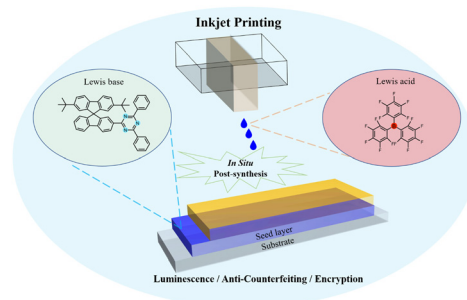


FEATURE ARTICLES

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***In situ* post-synthesis of luminescent Lewis acid–base adducts**

Sichao Ji, Qin Xue* and Guohua Xie*

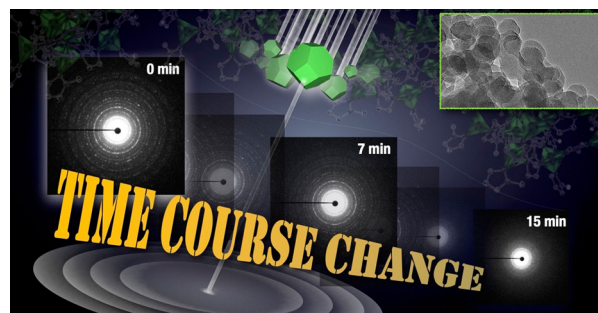


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Direct observation of crystal degradation behaviour in porous crystals under low-dose electron diffraction conditions

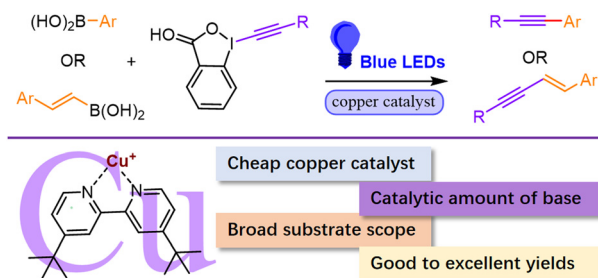
Hikaru Sakamoto and Masataka Ohtani*



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Copper-catalyzed umpolung Sonogashira-type coupling of arene boronic acids under visible light

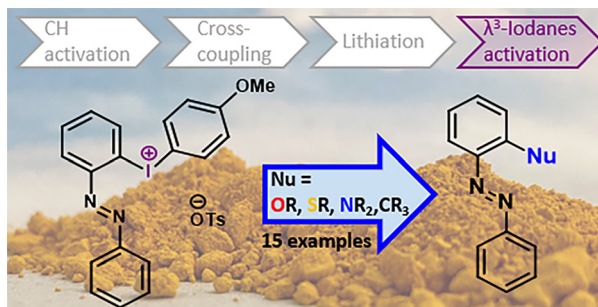
Jingwei Ma, Qian Wang, Yang Sun, Eva Zhu, Xiaobao Li, Haibo Tan,* Guangying Chen* and Chao Zheng*



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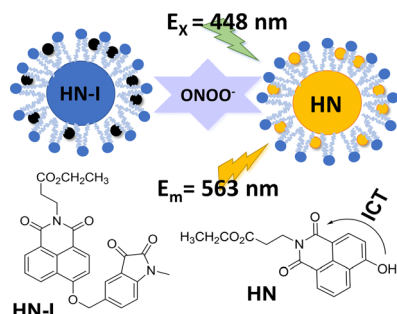
***ortho*-Functionalization of azobenzenes via hypervalent iodine reagents**

Ester Maria Di Tommaso, Melanie Walther, Anne Staubitz* and Berit Olofsson*



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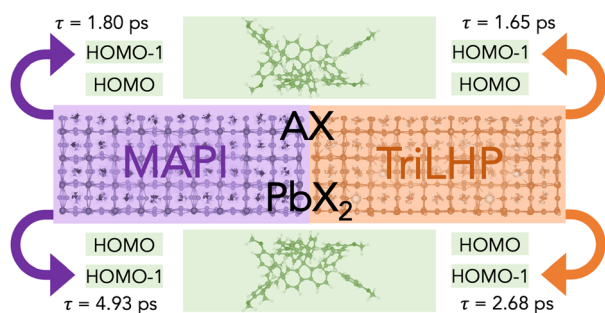
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Selective detection of peroxynitrite using an isatin receptor and a naphthalimide fluorophore

Yueci Wu, Hai-Hao Han, Liu He, Li Li, Yi Zang, Jia Li,*
Xiao-Peng He,* Yaping Ding,* Weiguo Cao* and
Tony D. James*

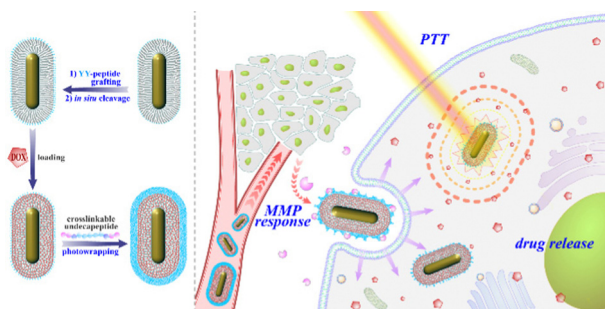
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First-principles study of interfacial features and charge dynamics between spiro-MeOTAD and photoactive lead halide perovskites

Adriana Pecoraro, Francesca Fasulo, Michele Pavone and
Ana B. Muñoz-García*

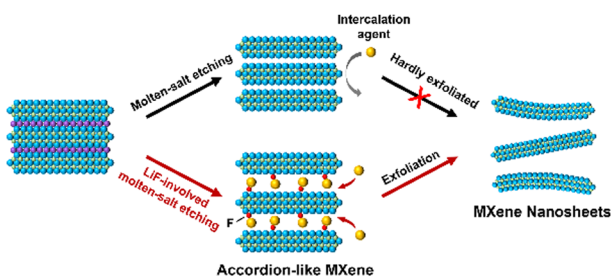
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Peptide photowrapping of gold-silica nanocomposites for constructing MMP-responsive drug capsules for chemo-photothermal therapy

Hao Liu, Sijie He, Li-Ya Niu, Xue-Wang Gao, Ke Feng,
Shumin Yang, Jianqun Shao, Wenhua Zhao, Nan Xie*
and Qing-Zheng Yang

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Molten-salt etching synthesis of delaminatable MXenes

Xingyu Wang, Yu Shi, Jieshan Qiu and Zhiyu Wang*

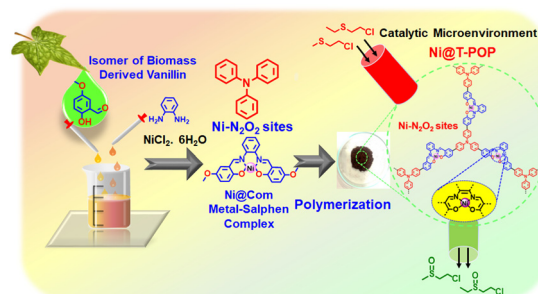


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Putting forward a Ni-metallosalphen-based porous organic polymer for detoxification of sulfur mustard gas simulant

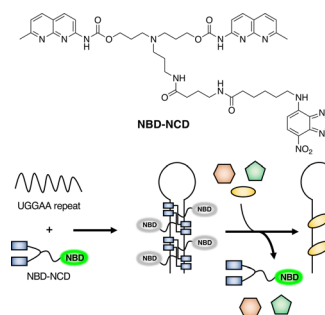
Priyanka Kalita, Ratul Paul, Chih-Wen Pao,
Rupak Chatterjee, Asim Bhaumik and John Mondal*



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Fluorescent indicator displacement assay for the discovery of UGGAA repeat-targeted small molecules

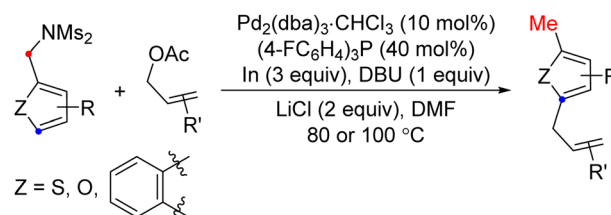
Tomonori Shibata,* Yasumasa Matsumoto, Akiko Iihara,
Kazunori Yamada, Hiroshi Ochiai, Ryo Saito,
Shinichi Kusaka and Toshiyuki Kume



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Palladium-catalyzed indium-mediated reductive aromatic C–H allylation of *N*-benzylsulfonimides with allyl esters

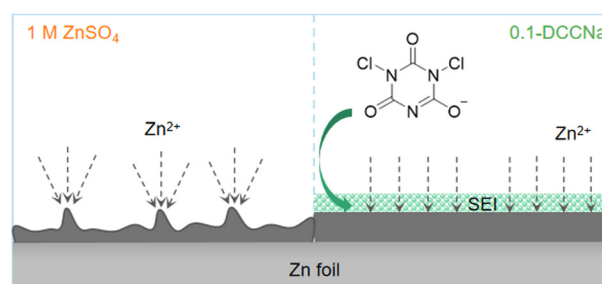
Xue-Ting Zhang and Shi-Kai Tian*



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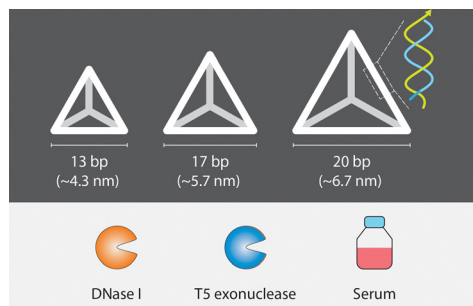
An organic–inorganic solid–electrolyte interface generated from dichloroisocyanurate electrolyte additive for a stable Zn metal anode in aqueous Zn batteries

Fangming Liu, Kuo Wang,* Qianrui Li, Guoli Zhang, Jiaqi Zhu, Xiao-Xia Liu and Xiaoqi Sun*



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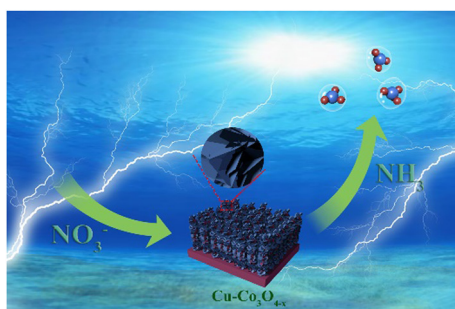
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The role of size in biostability of DNA tetrahedra

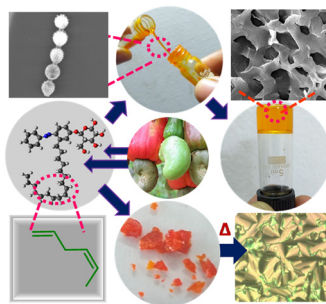
Javier Vilcapoma, Akul Patel, Arun Richard Chandrasekaran* and Ken Halvorsen*

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Coupling Cu doping and oxygen vacancies in Co_3O_4 for efficient electrochemical nitrate conversion to ammonia

Bo Li, Pengfei Xue, Yu Bai, Qin Tang, Man Qiao and Dongdong Zhu*

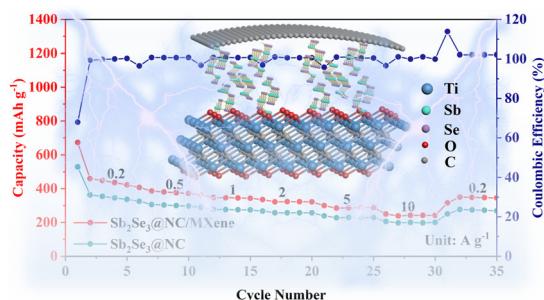
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Modulating nanostructure morphology and mesomorphic properties using unsaturation in cardanol-azo benzenes

Anjali Raju, Jyothish Kuthanapillil,* Manoj Mathews, Doddamane S. Shankar Rao, Jijo J. Vallooran and George John

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Interfacial covalent bonding of the MXene-stabilized Sb_2Se_3 nanotube hybrid with fast ion transport for enhanced sodium-ion half/full batteries

Chengkui Lv, Linlin Tai, Xiao Li, Xiaowei Miao, Huaixin Wei,* Jun Yang* and Hongbo Geng*

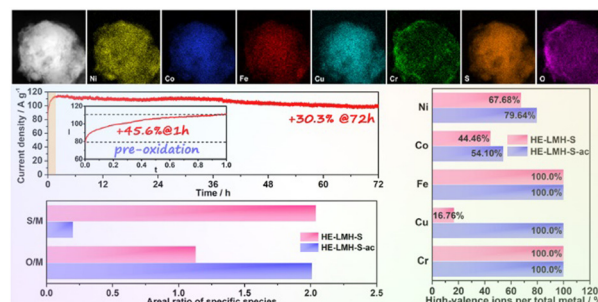


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Topotactic synthesis of high-entropy sulfide nanosheets as efficient pre-catalysts for water oxidation

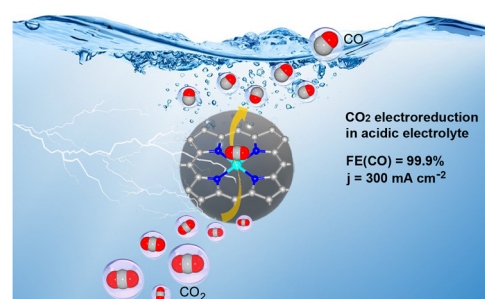
Min Guo, Pengfeng Li, Anran Wang, Jiale Wang, Jinyue Chen, Fengcai Lei, Pin Hao, Xu Sun,* Junfeng Xie* and Bo Tang*



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A highly efficient atomic nickel catalyst for CO₂ electroreduction in acidic electrolyte

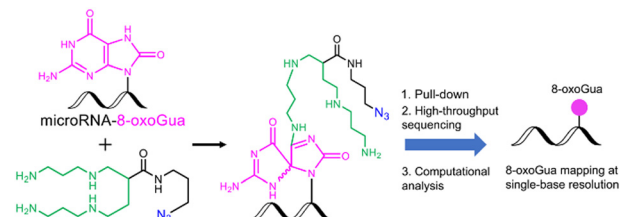
Qiao Wu, Jun Liang, Li-Li Han, Yuan-Biao Huang* and Rong Cao*



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Chemical labeling achieves 8-oxo-7,8-dihydroguanine mapping in the microRNA transcriptome

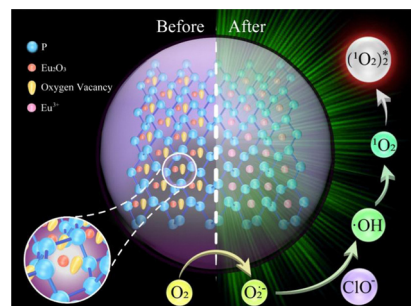
Changjiang Fan,* Xinyue Meng, Wei Yang, Peiyan Wang, Wenguang Chang, Peifeng Li* and Jianxun Wang*



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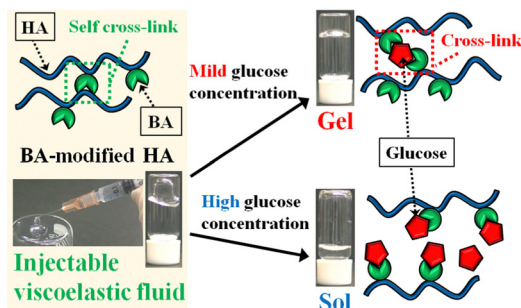
Modulated oxygen vacancies in europia clusters/black phosphorus induced signal amplification for efficient chemiluminescence sensing

Hui Gong, Dayang Zhao, Yu Zhou, Yuxian Zhou, Jing Gou and Houjing Liu*



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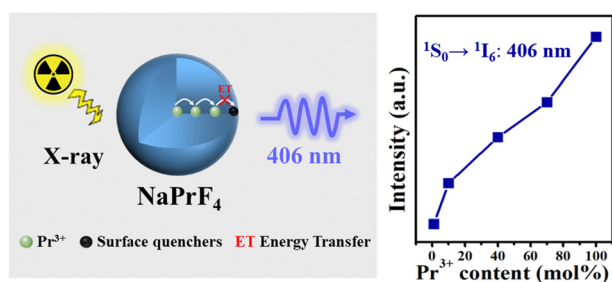
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Anomalous glucose-responsive rheological changes in a boronic acid-modified hyaluronan

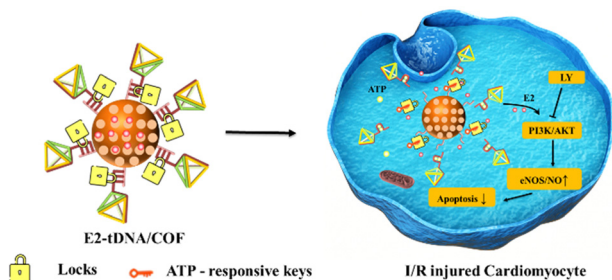
Ryotaro Miki,* Tsutomu Yamaki, Masaki Uchida and Hideshi Natsume

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Pr³⁺-doped nanoscintillators with concentration-quenching-free properties

Lin Zhang, Yantao Li, Huiru Ye, Lei Zhao, Qingwei Song, Weidong Du, Xukai Chen and Wei Wei*

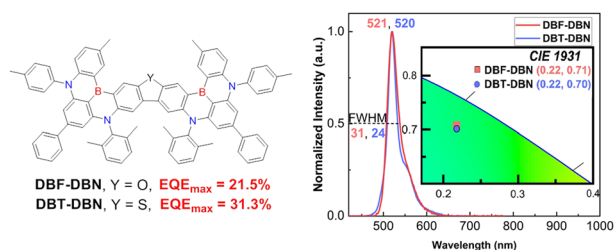
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Endogenous stimulus-controlled estradiol@AIEgen-based covalent organic framework for reduction of myocardial ischemia/reperfusion injury

Fang Yuan, Cuiling Zhang,* Xianzhu Luo, Xiaokun Shen and Yuezhong Xian*

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Dibenzo[*b,d*]furan/thiophene-fused double boron-based multiresonance emitters with narrowband ultrapure green electroluminescence

Menglei Wang, Zhangyi Fu, Rui Cheng, Jiping Du, Tanping Wu, Zhengyang Bin, Di Wu,* Yudong Yang and Jingbo Lan*

