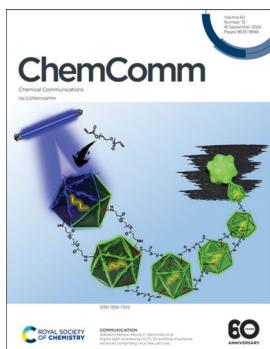


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### IN THIS ISSUE

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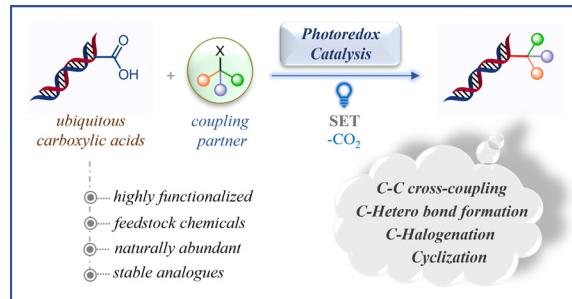
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### HIGHLIGHT

9645

#### Photocatalytic decarboxylation of free carboxylic acids and their functionalization

Subal Mondal, Subham Mandal, Soumya Mondal,  
Siba P. Midya and Pradyut Ghosh\*

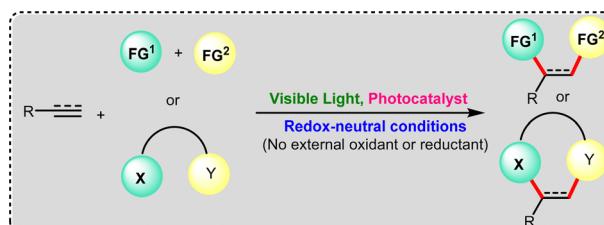


### FEATURE ARTICLES

9659

#### Visible-light-induced redox-neutral difunctionalization of alkenes and alkynes

Susmita Mondal, Sumit Ghosh and Alakananda Hajra\*



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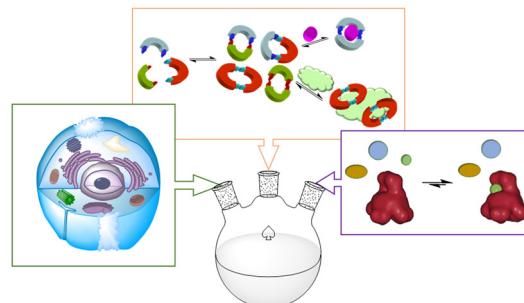
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## FEATURE ARTICLES

9692

**Supramolecular chemical biology: designed receptors and dynamic chemical systems**

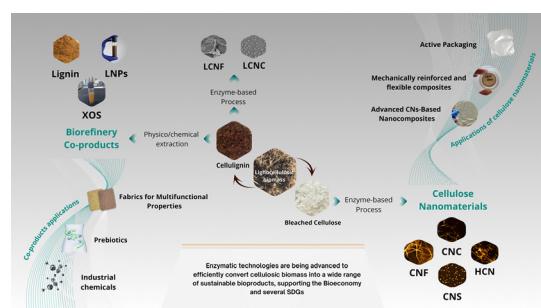
Ignacio Alfonso\*



9704

**Enzymatic approaches for diversifying bioproducts from cellulosic biomass**

Valdeir Arantes,\* Bruno Las-Casas, Isabella K. R. Dias, Sergio Luis Yupanqui-Mendoza, Carlaile F. O. Nogueira and Wilian F. Marcondes

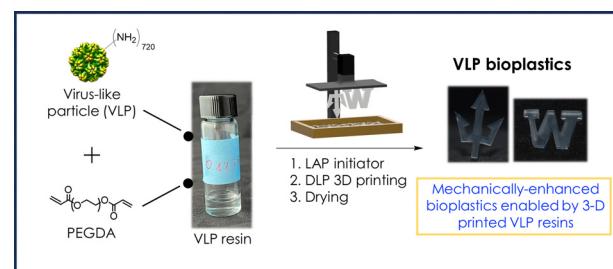


## COMMUNICATIONS

9733

**Digital light processing (DLP) 3D printing of polymer networks comprising virus-like particles**

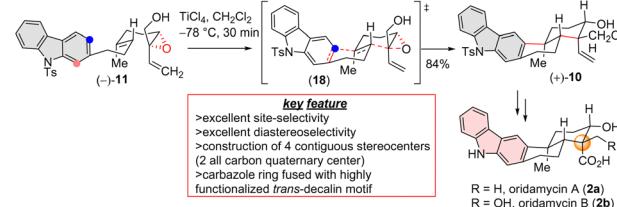
Naroa Sadaba, Jorge Leganés Bayón, Alshakim Nelson\* and Nicole F. Steinmetz\*



9737

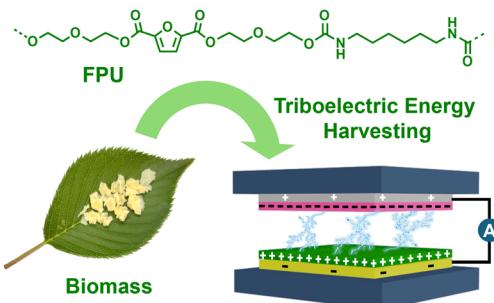
**Total synthesis of (+)-oridamycins A and B**

Ranjit Murmu, Sourav Kundu, Moumita Majhi, Souvik Pal, Abhishek Mondal and Alakesh Bisai\*



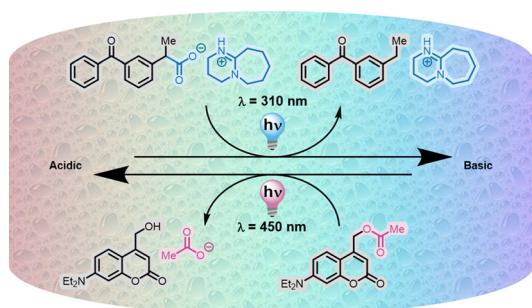
## COMMUNICATIONS

9741

**Polyurethanes synthesized using biomass-derived furan diols as sustainable triboelectric materials**

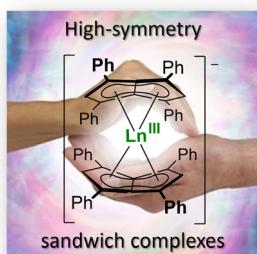
June Young Jang, Youngmin Byun, Sijin You, Seunghun Kim, Dong-Min Lee, Sang-Woo Kim\* and Seung Uk Son\*

9745

**Optical control of pH via chromoselective photodosimetry**

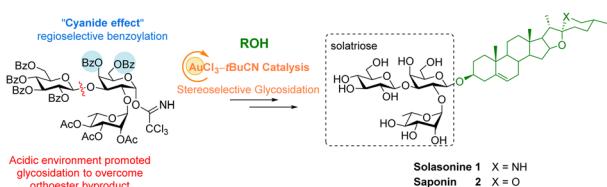
Amrita Chaudhuri, Linda E. Eijsink and Nadja A. Simeth\*

9749

**Tetraphenylpentalenide organolanthanide complexes**

Nicholas J. Katzer, Mandeep Kaur, Asmita Sen, Rupal Nimaiyar, Jochen Autschbach,\* Polly L. Arnold\* and Ulrich Hintermair\*

9753

**Convergent synthesis of glycoalkaloids solasonine and its saponin derivative**

Yue Yang, Tong Li, Huiran Hao, Ju-Zheng Sheng, Tianlu Li\* and Peng Peng\*

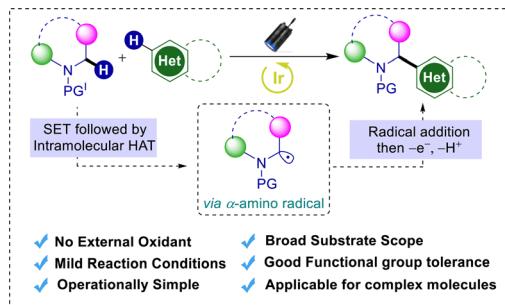


## COMMUNICATIONS

9757

**Photoredox cross-dehydrogenative C(sp<sup>2</sup>)–C(sp<sup>3</sup>) coupling of heteroarenes with secondary amines through 1,5-HAT**

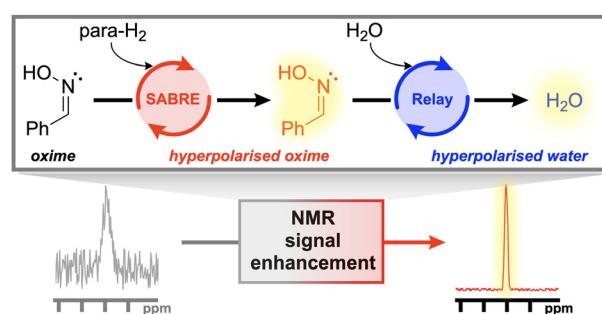
Vinjamuri Srinivasu, Swadhin Pattanaik and Devarajulu Sureshkumar\*



9761

**Aldoximes enable proton-relayed NMR hyperpolarisation**

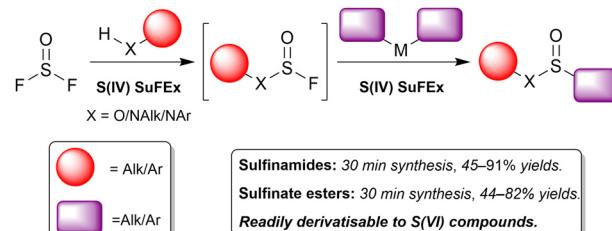
Naomi E. Leydman and Philip L. Norcott\*



9765

**Thionyl fluoride as a sulfur(IV) SuFEx hub for the efficient syntheses of sulfinamides and sulfinate esters**

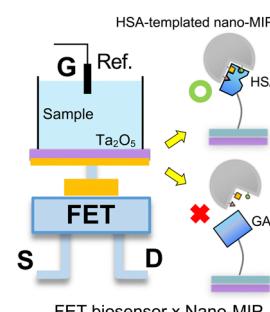
William P. Chappell, Marie Favié and Glenn M. Sammis\*



9769

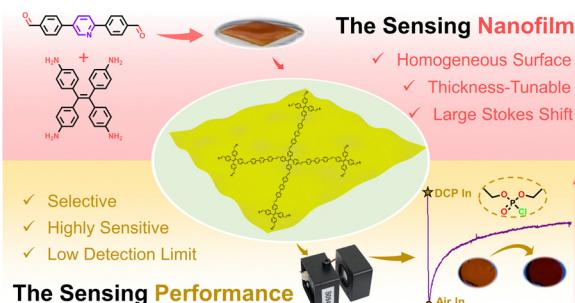
**Electrical monitoring of human-serum-albumin-templated molecularly imprinted polymer nanoparticles with high affinity based on molecular charges and their visualization**

Youyuan Man, Shoichi Nishitani, Kazuaki Sawada and Toshiya Sakata\*



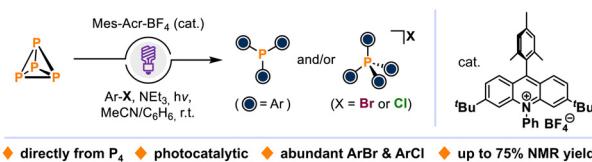
## COMMUNICATIONS

9773

**Highly sensitive and selective detection of DCP vapors using pyridine-based fluorescent nanofilms**

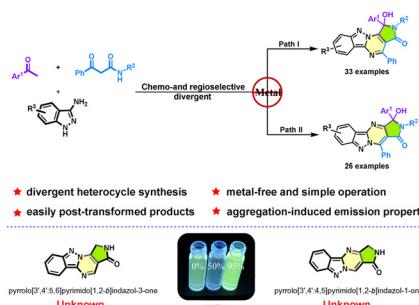
Zebiao Qiu, Yue Xiao, Ling Zhang, Yupei Miao, Bei Zhang, Xiaolin Zhu,\* Liping Ding,\* Haonan Peng\* and Yu Fang

9777

**Photocatalytic functionalization of white phosphorus with aryl bromides and chlorides**

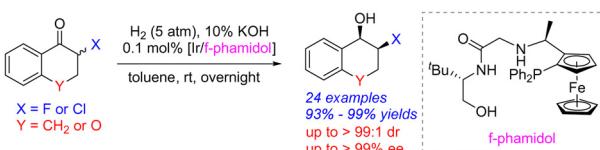
Martin Gawron, Jannes Rückel and Robert Wolf\*

9781

**Divergent synthesis of pyrrolidone fused pyrimido[1,2-b]indazole through selective trapping of an enone intermediate by 1*H*-indazol-3-amine**

Xi Shen, Zhi-Cheng Yu, You Zhou, Yan-Dong Wu and An-Xin Wu\*

9785

**Highly efficient synthesis of enantioenriched vicinal halo hydrins via Ir-catalyzed asymmetric hydrogenation using dynamic kinetic resolution**

Bin He, Gen-Qiang Chen\* and Xumu Zhang\*

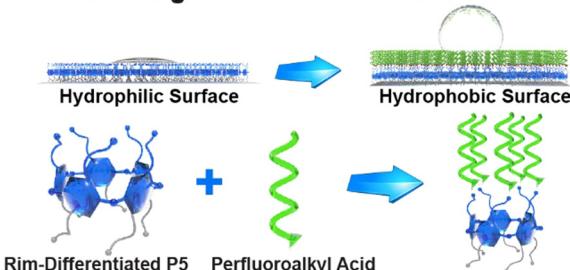


## COMMUNICATIONS

9789

**Rim-differentiated pillar[5]arene-modified surfaces for rapid PFOA/PFOS detection**

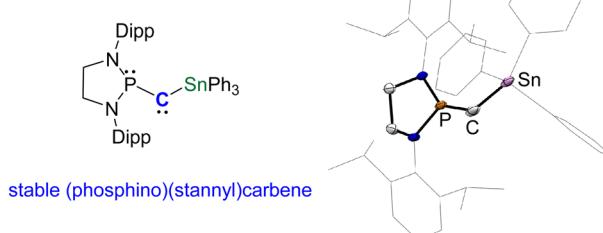
Tu-Nan Gao, Zhen Yang, Jesse M. S. Goed, Han Zuilhof\* and Fedor M. Miloserdov\*

**Contact Angle-Based PFOS/PFOA Detection**

9793

**(Phosphino)(stannyl)carbene**

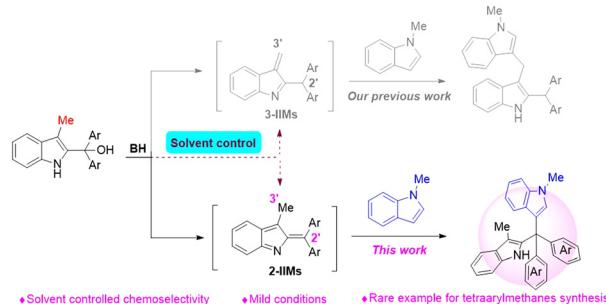
Rui Wei, Xin-Feng Wang, Chaopeng Hu and Liu Leo Liu\*



9797

**Trifluoroethanol promoted formal nucleophilic substitution of indol-2-yl diaryl methanol for the synthesis of tetraarylmethanes**

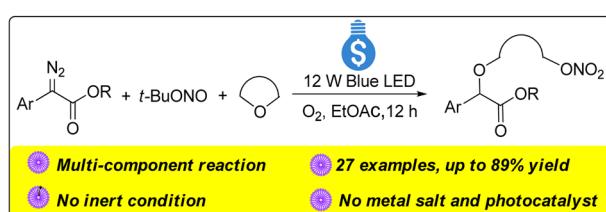
Cuicui Nian, Run Yu, Zhengyu Han, Yang Bai, Jianhao Wang, Jianwei Sun\* and Hai Huang\*



9801

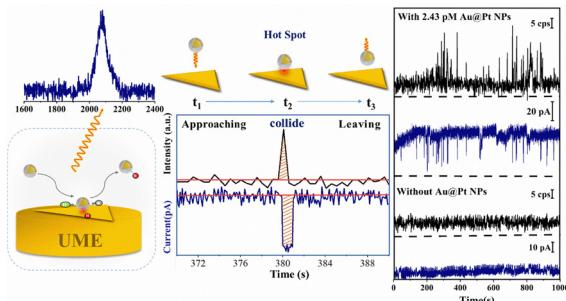
**Metal-free visible-light-mediated aerobic nitrooxylation for the synthesis of nitrate esters with *t*-BuONO**

Yufen Lv\*, Jindong Hao, Jian Huang, Lianhui Song, Huilan Yue, Wei Wei\* and Dong Yi\*



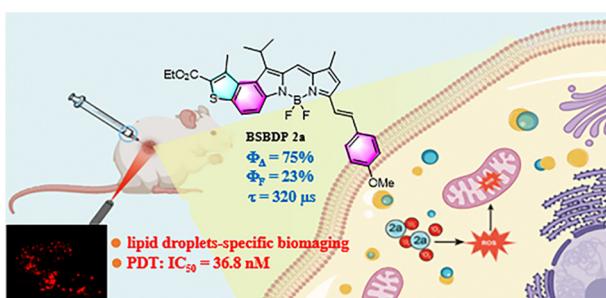
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9805

**Improving insight into the localized electrochemical Volmer reaction based on surface enhanced Raman spectroscopy and collisions**

Xiaoyu Liu, Chenjie Zhang, Chen Wang, Yaxian Yuan\* and Jianlin Yao\*

9809

**Heavy-atom-free triplet benzothiophene-fused BODIPY derivatives for lipid droplet-specific biomaging and photodynamic therapy**

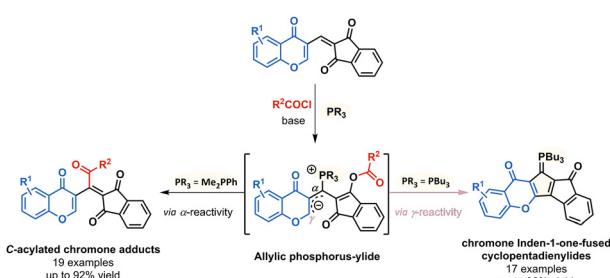
Weibin Bu, Changjiang Yu,\* Yingxiu Man, Jiazhu Li,\* Qinghua Wu, Shuangying Gui,\* Yaxiong Wei,\* Lijuan Jiao and Erhong Hao\*

9813

**A selective photoinduced radical O-alkenylation of phenols and naphthols with terminal alkynes**

V. Praveen Kumar, C. S. Athira, B. Mohan, S. Priya and B. S. Sasidhar\*

9817

**Diversity-oriented synthesis of chromone inden-1-one-fused cyclopentadienylides and C-acylated chromone adducts via allylic phosphorus ylides**

Durga Prasad Gurram, Gangababu Marri, Naveen Jothimani, Yi-Ru Chen and Wenwei Lin\*

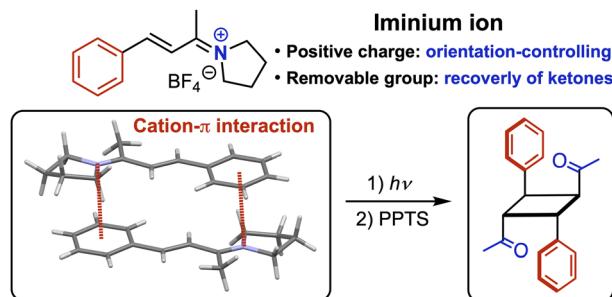


## COMMUNICATIONS

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**Solid-state [2+2] photodimerization of eniminium salts: stereoselective syntheses of 1,3-diacetylcylobutanes**

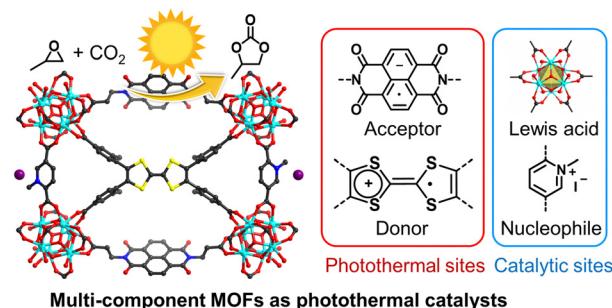
Shinji Yamada\* and Yuka Honda



9825

**Designing photothermal catalytic systems in multi-component MOFs for enhanced conversion of carbon dioxide**

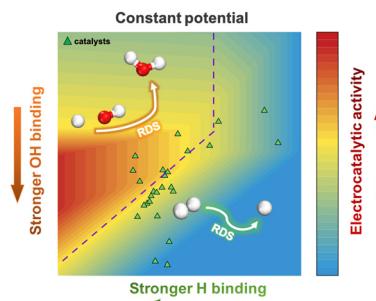
Yulun Wu, Lei Gao, Xiao-Cheng Zhou, Xiang Yu, Ya-Ru Meng, Jing-Lin Zuo, Jian Su\* and Shuai Yuan\*



9829

**Modelling the activity trend of the hydrogen oxidation reaction under constant potential conditions**

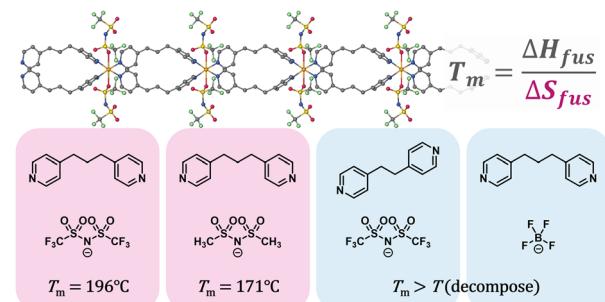
Wenhui Ling, Jian Liu and Bo Yang\*



9833

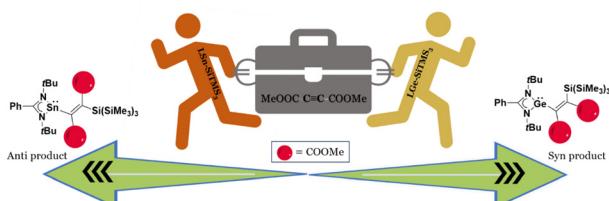
**Entropically driven melting of Cu-based 1D coordination polymers**

Yuki Ohara, Taichi Nishiguchi, Xin Zheng, Shin-ichiro Noro,\* Daniel M. Packwood\* and Satoshi Horike\*



## COMMUNICATIONS

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**Stereodivergent sila-germylenation vs. sila-stannylenation of an internal alkyne**

V. S. Ajithkumar, Pratiksha B. Ghanwat, Sougata Saha, Swapan K. Pati\* and Sakya S. Sen\*

9841

**Removal of mercury and lead ions from water using bioinspired  $N_3Se_3$  type small sized moieties**

Avinash Chaurasia and Abhishek Kumar\*

## CORRECTIONS

9845

**Correction: Oral delivery of a platinum anticancer drug using lipid assisted polymeric nanoparticles**

Qinqin Cheng, Hongdong Shi, Hai Huang, Zhiting Cao, Jun Wang\* and Yangzhong Liu\*



9846

**Correction: Co-delivery of all-trans-retinoic acid enhances the anti-metastasis effect of albumin-bound paclitaxel nanoparticles**

Hai Huang, Hongdong Shi, Jing Liu, Yuanzeng Min, Yucai Wang, Andrew Z. Wang, Jun Wang and Yangzhong Liu\*