

# Chemical Science

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## IN THIS ISSUE

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### Cover

See Yusuke Kuramochi, Motoko S. Asano, Akiharu Satake et al., pp. 8743–8765.  
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### Inside cover

See Yohei Katsuyama et al., pp. 8766–8776.  
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## REVIEW

8693

### Halide solid-state electrolytes for all-solid-state batteries: structural design, synthesis, environmental stability, interface optimization and challenges

Boran Tao, Dailin Zhong, Hongda Li, Guofu Wang and Haixin Chang\*

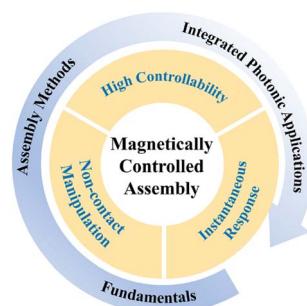


## PERSPECTIVE

8723

### Magnetically controlled assembly: a new approach to organic integrated photonics

Lixin Xu, Hao Jia, Chuang Zhang, Baipeng Yin\* and Jiannian Yao\*



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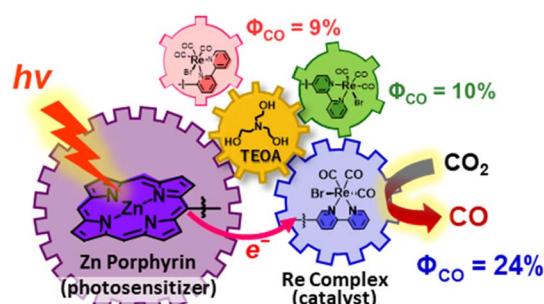
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## EDGE ARTICLES

8743

**Significance of the connecting position between Zn(II) porphyrin and Re(I) bipyridine tricarbonyl complex units in dyads for room-temperature phosphorescence and photocatalytic CO<sub>2</sub> reduction: unexpected enhancement by triethanolamine in catalytic activity**

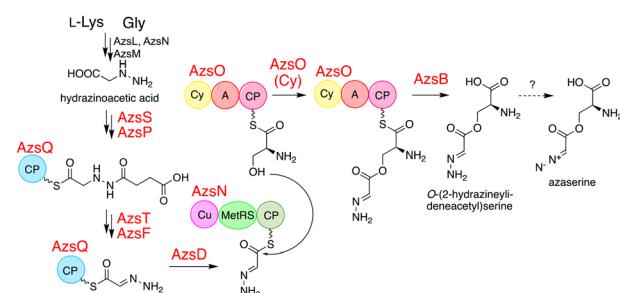
Yusuke Kuramochi,\* Yuto Suzuki, Somyo Asai, Tomohiro Suzuki, Hiroki Iwama, Motoko S. Asano\* and Akiharu Satake\*



8766

**In vitro characterization of nonribosomal peptide synthetase-dependent O-(2-hydrazineylideneacetyl) serine synthesis indicates a stepwise oxidation strategy to generate the  $\alpha$ -diazo ester moiety of azaserine**

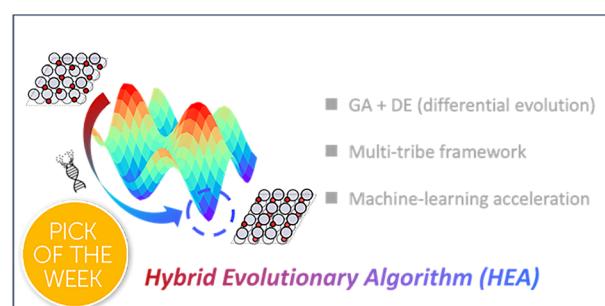
Yusuke Shikai, Seiji Kawai, Yohei Katsuyama\* and Yasuo Ohnishi



8777

**Accessing complex reconstructed material structures with hybrid global optimization accelerated via on-the-fly machine learning**

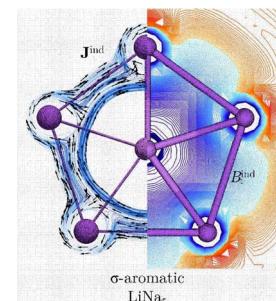
Xiangcheng Shi, Dongfang Cheng, Ran Zhao, Gong Zhang, Shican Wu, Shiyu Zhen, Zhi-Jian Zhao\* and Jinlong Gong\*



8785

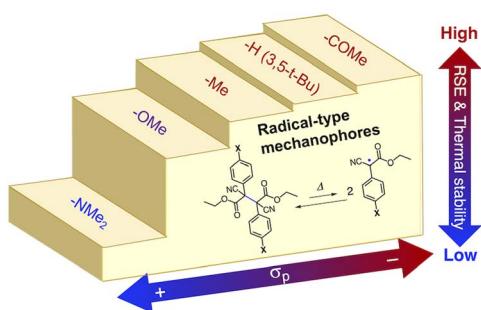
**Planar pentacoordinate s-block metals**

Meng-hui Wang, Amlan J. Kalita, Mesías Orozco-Íc, Gai-ru Yan, Chen Chen, Bing Yan, Gabriela Castillo-Toraya, William Tiznado,\* Ankur K. Guha,\* Sudip Pan,\* Gabriel Merino\* and Zhong-hua Cui\*



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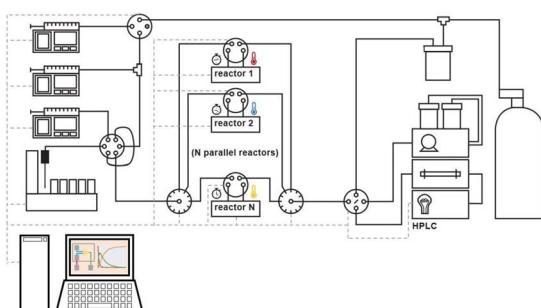
8792



### A rational design strategy of radical-type mechanophores with thermal tolerance

Yi Lu, Hajime Sugita, Koichiro Mikami,\* Daisuke Aoki and Hideyuki Otsuka\*

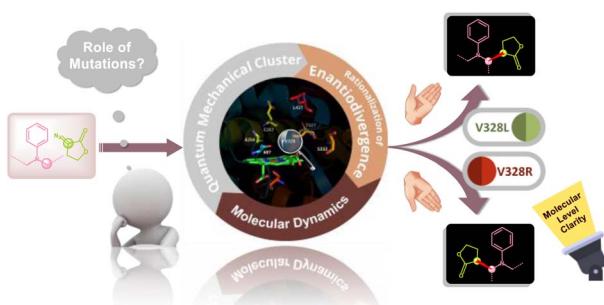
8798



### Parallel multi-droplet platform for reaction kinetics and optimization

Natalie S. Eyke, Timo N. Schneider, Brooke Jin, Travis Hart, Sebastien Monfette, Joel M. Hawkins, Peter D. Morse, Roger M. Howard, David M. Pfisterer, Kakasaheb Y. Nandiwale and Klavs F. Jensen\*

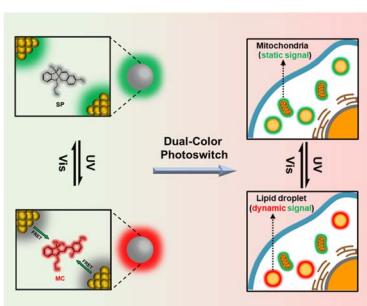
8810



### Role of mutations in a chemoenzymatic enantiodivergent C(sp<sup>3</sup>)–H insertion: exploring the mechanism and origin of stereoselectivity

Ritwika Chatterjee and Garima Jindal\*

8823



### Ligand-protected nanocluster-mediated photoswitchable fluorescent nanoprobes towards dual-color cellular imaging

Wencheng Zhong, Kangqiang Liang, Wenfeng Liu and Li Shang\*

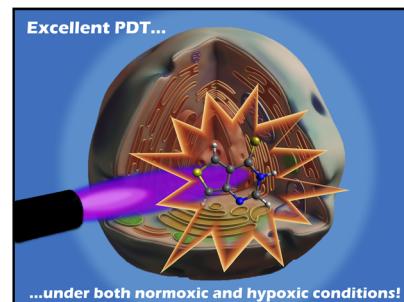


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8831

**Thieno[3,4-*d*]pyrimidin-4(3*H*)-thione: an effective, oxygenation independent, heavy-atom-free photosensitizer for cancer cells**

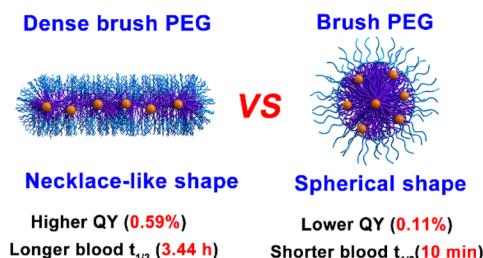
Luis A. Ortiz-Rodríguez, Ye-Guang Fang,  
 Germain Niogret, Kaivin Hadidi, Sean J. Hoehn,  
 Heather J. Folkwein, Steffen Jockusch, Yitzhak Tor,\*  
 Ganglong Cui,\* Liraz Levi\*  
 and Carlos E. Crespo-Hernández\*



8842

**Controlling NIR-II emitting gold organic/inorganic nanohybrids with tunable morphology and surface PEG density for dynamic visualization of vascular dysfunction**

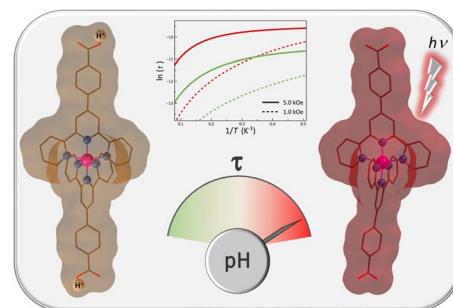
Tingyao Zhou, Menglei Zha, Hao Tang, Kai Li  
 and Xingyu Jiang\*



8850

**pH-Switching of the luminescent, redox, and magnetic properties in a spin crossover cobalt(II) molecular nanomagnet**

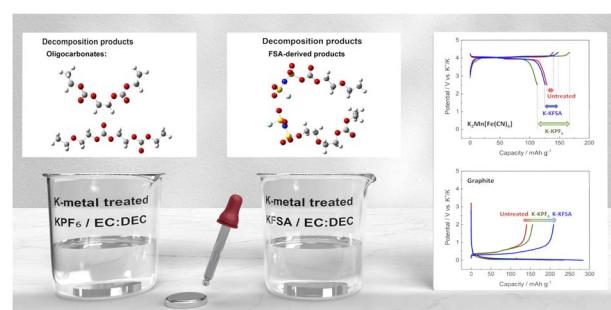
Renato Rabelo, Luminita Toma, Nicolás Moliner,  
 Miguel Julve, Francesc Lloret, Mario Inclán,  
 Enrique García-España, Jorge Pasán, Rafael Ruiz-García  
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8860

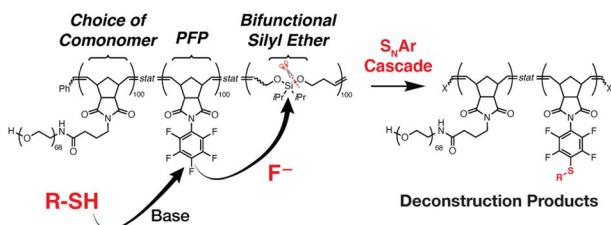
**Impact of electrolyte decomposition products on the electrochemical performance of 4 V class K-ion batteries**

Tomooki Hosaka, Tatsuo Matsuyama, Ryoichi Tatara,  
 Zachary T. Gossage and Shinichi Komaba\*



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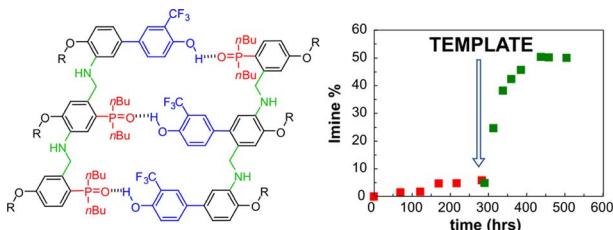
8869



**Thiol-triggered deconstruction of bifunctional silyl ether terpolymers *via* an  $\text{S}_\text{N}\text{Ar}$ -triggered cascade**

Christopher M. Brown, Keith E. L. Husted, Yuyan Wang, Landon J. Kilgallon, Peyton Shieh, Hadiqa Zafar, David J. Lundberg and Jeremiah A. Johnson\*

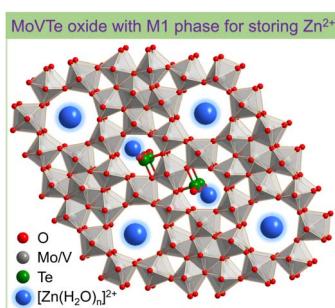
8878



**Sequence-selective duplex formation and template effect in recognition-encoded oligoanilines**

Daniele Rosa-Gastaldo, Andrea Dalla Valle, Tommaso Marchetti and Luca Gabrielli\*

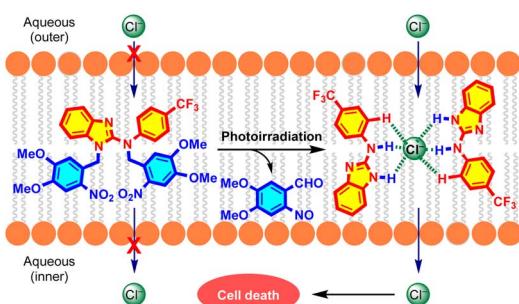
8889



**Atomic scale analysis of  $\text{Zn}^{2+}$  storage in robust tunnel frameworks**

Kaiyue Zhu, Hongxin Wang, Weikang Jiang, Weili Xie, Xu Li, Zhenghao Jia and Weishen Yang\*

8897



**Photocontrolled activation of doubly o-nitrobenzyl-protected small molecule benzimidazoles leads to cancer cell death**

Manzoor Ahmad, Naveen J. Roy, Anurag Singh, Debashis Mondal, Abhishek Mondal, Thangavel Vijayakanth, Mayurika Lahiri and Pinaki Talukdar\*

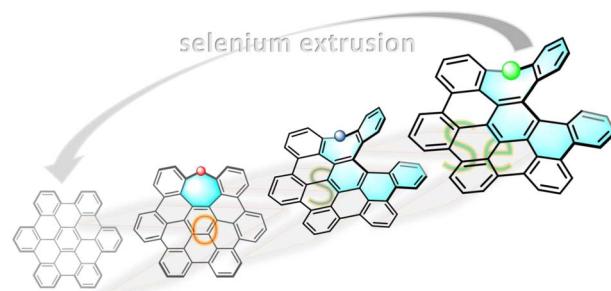


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8905

**Chalcogen-doped, (seco)-hexabenzocoronene-based nanographenes: synthesis, properties, and chalcogen extrusion conversion**

Ranran Li, Bin Ma, Shengtao Li, Chongdao Lu and Peng An\*



8914

**Surface polarization-induced emission and stability enhancement of  $\text{CsPbX}_3$  nanocrystals**

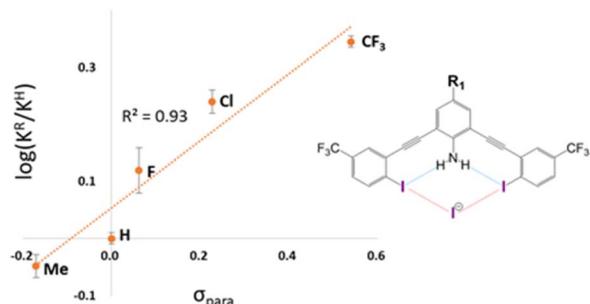
Keqiang Chen, Zixin Gu, Zhiqing Wang, Mengyu Guan, Xiu Tan, Wanqing Xu, Xinyu Ji, Weiqi Lu, Yueli Liu\* and Guogang Li\*



8924

**The interplay between hydrogen and halogen bonding: substituent effects and their role in the hydrogen bond enhanced halogen bond**

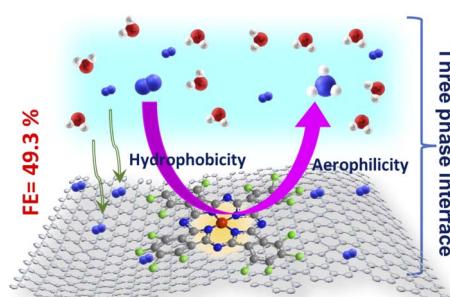
Jiyu Sun, Daniel A. Decato, Vyacheslav S. Bryantsev, Eric A. John and Orion B. Berryman\*



8936

**Engineering hydrophobic–aerophilic interfaces to boost  $\text{N}_2$  diffusion and reduction through functionalization of fluorine in second coordination spheres**

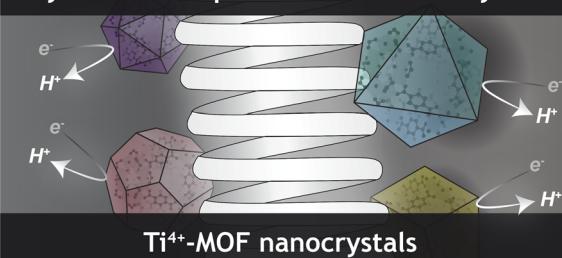
Sakshi Bhardwaj, Sabuj Kanti Das, Ashmita Biswas, Samadhan Kapse, Ranjit Thapa and Ramendra Sundar Dey\*



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8946

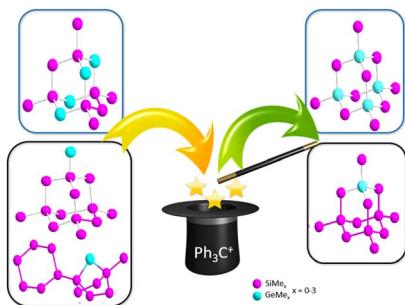
## Synthesis and photoredox chemistry of



## Gram-scale synthesis of MIL-125 nanoparticles and their solution processability

Kevin Fabrizio, Eoghan L. Gormley, Audrey M. Davenport, Christopher H. Hendon\* and Carl K. Brozek\*

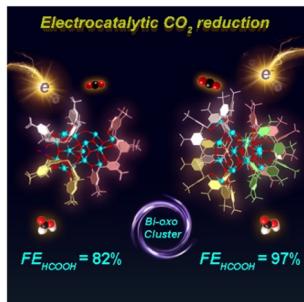
8956



## Selective synthesis of germasila-adamantanes through germanium–silicon shift processes

Steffen Kühn, Benedikt Köstler, Celine True, Lena Albers, Matthias Wagner,\* Thomas Müller\* and Christoph Marschner\*

8962

Electron delocalization of robust high-nuclear bismuth-oxo clusters for promoted  $\text{CO}_2$  electroreduction

Baoshan Hou, Haiyan Zheng, Kunhao Zhang, Qi Wu, Chao Qin, Chunyi Sun,\* Qinhe Pan, Zhenhui Kang, Xinlong Wang\* and Zhongmin Su