

# ChemComm

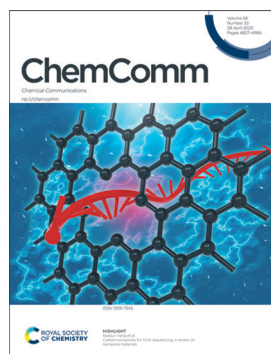
Chemical Communications

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## IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS 59(33) 4827-4984 (2023)



### Cover

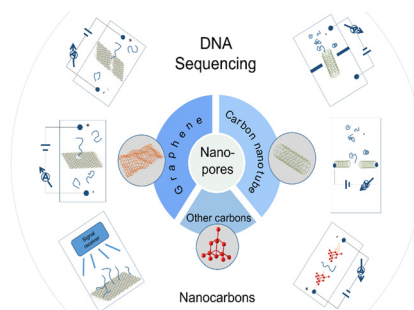
See Nianjun Yang *et al.*,  
pp. 4838–4851.  
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Jing Xu from  
*Chem. Commun.*,  
2023, 59, 4838.

## HIGHLIGHT

4838

### Carbon nanopores for DNA sequencing: a review on nanopore materials

Jing Xu, Xin Jiang and Nianjun Yang\*

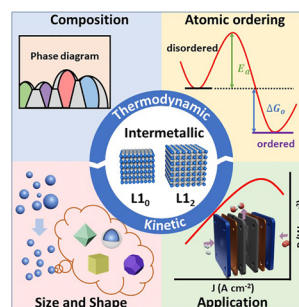


## FEATURE ARTICLES

4852

### Design principles for the synthesis of platinum–cobalt intermetallic nanoparticles for electrocatalytic applications

Siyong Yu and Hong Yang\*



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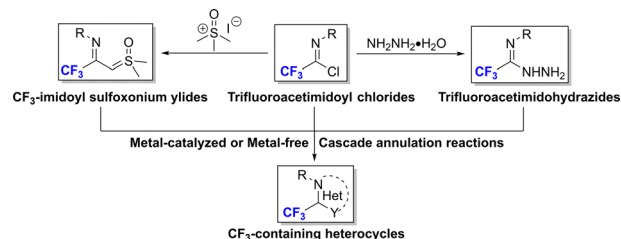


## FEATURE ARTICLES

4872

## Construction of trifluoromethyl-containing heterocycles from trifluoroacetimidoyl chlorides and derivatives

Zuguang Yang, Guangming Wei, Zhengkai Chen\* and Xiao-Feng Wu\*

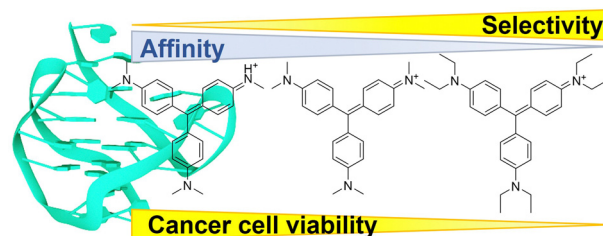


## COMMUNICATIONS

4891

## Simple and fast screening for structure-selective G-quadruplex ligands

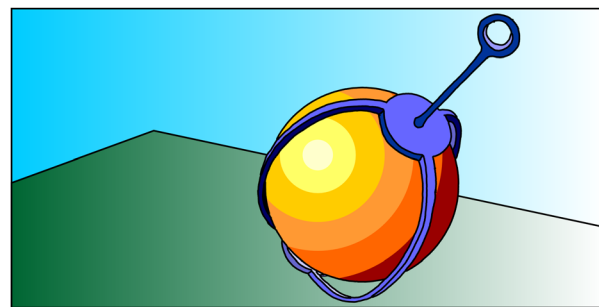
Yoshiki Hashimoto, Yoshiki Imagawa, Kaho Nagano, Ryuichi Maeda, Naho Nagahama, Takeru Torii, Natsuki Kinoshita, Nagisa Takamiya, Keiko Kawauchi, Hisae Tatesishi-Karimata, Naoki Sugimoto and Daisuke Miyoshi\*



4895

## An organic cage controlling the dimension and stability of gold nanoparticles

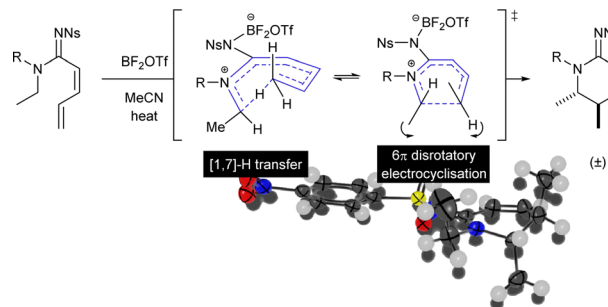
Erich Henrik Peters and Marcel Mayor\*



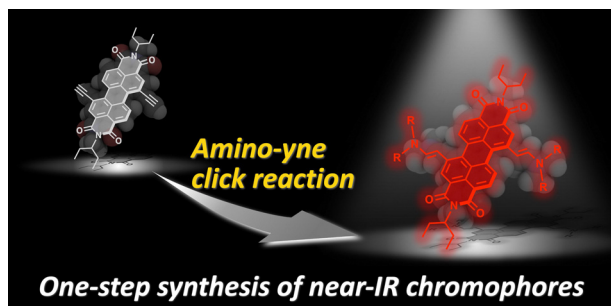
4899

## Stereodefined synthesis of cyclic amidines by domino 1,7-H shift and 6π electrocycloisatation

Matthew L. Martin, Claire Wilson and Alistair Boyer\*



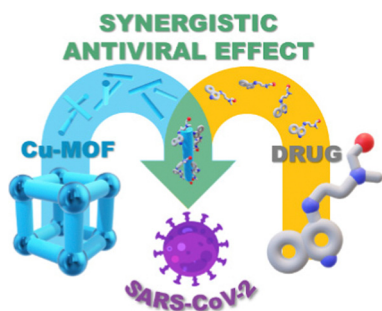
4903



### One-step synthesis of perylenediimides exhibiting near-infrared absorption and emission by amino-yne click reaction

Haruki Sanematsu, Masayuki Takeuchi and Atsuro Takai\*

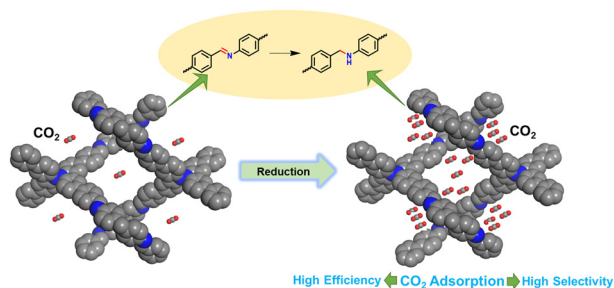
4907



### The synergistic effect of Cu-MOF nanoparticles and immunomodulatory agent on SARS-CoV-2 inhibition

Aleksander Ejsmont, Alicja Warowicka, Justyna Broniarczyk and Joanna Goscińska\*

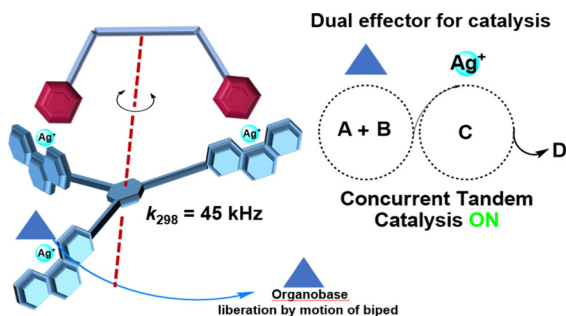
4911



### Construction of rigid amine-linked three-dimensional covalent organic frameworks for selectively capturing carbon dioxide

Lin Zhang, Danbo Wang, Minghao Cong, Xu Jia, Zhiguo Liu, Lixia He,\* Chaoqin Li\* and Yingjie Zhao\*

4915



### Concurrent tandem catalysis enabled by nanomechanical motion in heteroleptic four-component dual-catalyst machinery

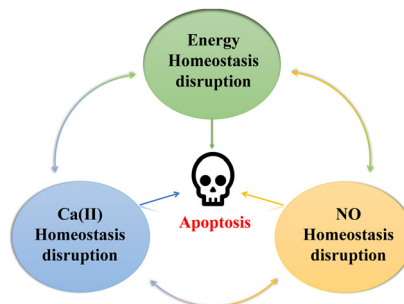
Emad Elramadi, Sohom Kundu, Debabrata Mondal and Michael Schmittel\*



4919

### An efficient biomimetic nano-regulator inducing simultaneous calcium ion/nitric oxide/energy metabolism triple homeostasis disruption for synergetic cancer therapy

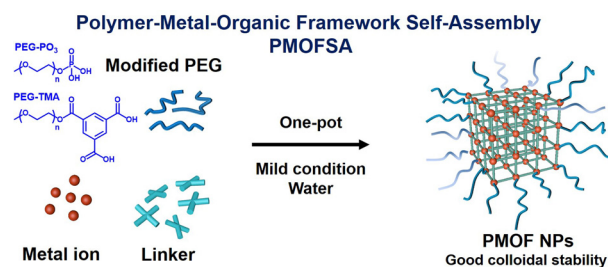
Chenchen Hu, Fan Jiang, Yixiao Li, Ruiyang Man and Zhengze Yu\*



4923

### Polymer–metal–organic framework self-assembly (PMOFSA) as a robust one-step method to generate well-dispersed hybrid nanoparticles in water

Kun Li, Zhihao Yu, Iurii Dovgaliuk, Clémence Le Coeur, Viviane Lütz-Bueno, Eric Leroy, Blandine Brissault, Yoann de Rancourt de Mimerand, Mathilde Lepoitevin, Christian Serre, Jacques Penelle and Benoit Couturaud\*

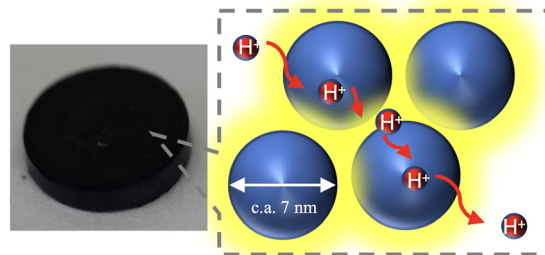


4927

### Surface modification enhances the bulk proton conductivity of Prussian blue

Akira Takahashi,\* Yasuhito Matsubayashi, Atsushi Sakurai, Yutaka Sugiyama, Keiko Noda and Tohru Kawamoto

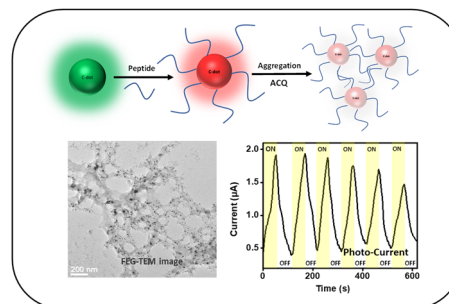
#### Surface modification enhances bulk proton conductivity



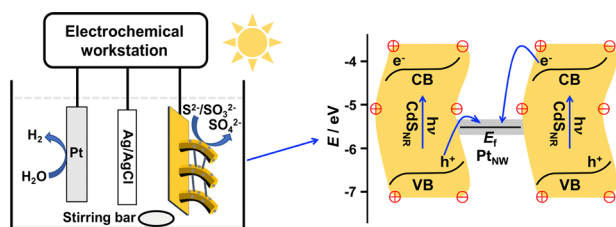
4931

### Surface modification of carbon dots *via* peptide covalent conjugation

Niladri Hazra, Soumyajit Hazra, Subir Paul and Arindam Banerjee\*



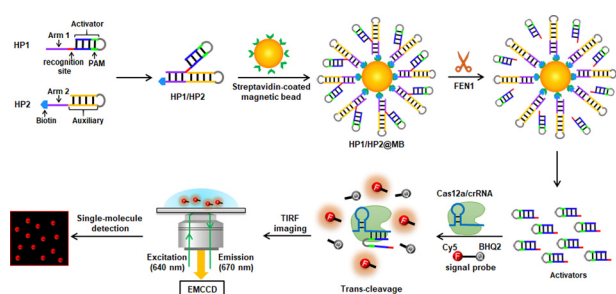
4935



### Photoelectrochemistry hydrogen production based on a Pt nanowires-bridged CdS nanorods array of piezoelectricity-triggered Z-scheme junctions

Jun Cheng, Chenpu Chen, Mingjian Chen and Qingji Xie\*

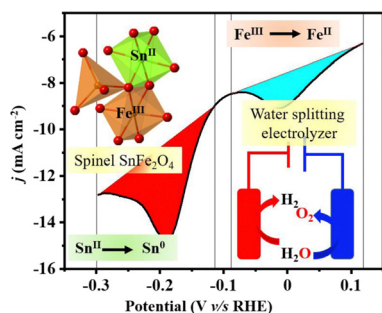
4939



### CRISPR/Cas12a-enhanced single-molecule counting for sensitive detection of flap endonuclease 1 activity at the single-cell level

Ning-ning Zhao, Xiaorui Tian, Fei Ma\* and Chun-yang Zhang\*

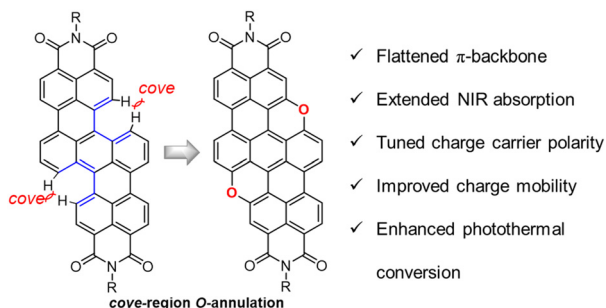
4943



### Redox-active Sn(II) to lead to SnFe<sub>2</sub>O<sub>4</sub> spinel as a bi-functional water splitting catalyst

Anubha Rajput, Amit Anand Pandey, Avinava Kundu and Biswarup Chakraborty\*

4947



### Cove-region O-annulation of arylene diimide enables ambipolar transport of a polycyclic aromatic hydrocarbon with strong NIR absorption

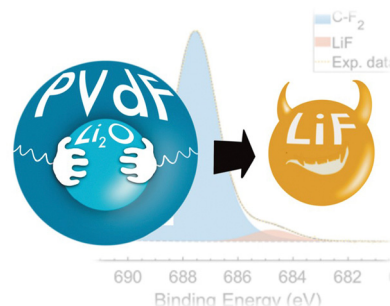
Kaihua Zhang, Jing Guo, Hao Liu, Xiaofeng Wang, Yifan Yao, Kun Yang and Zebing Zeng\*



4951

### Residual $\text{Li}_2\text{O}$ degrades PVdF during the preparation of NMC811 slurries for Li-ion batteries

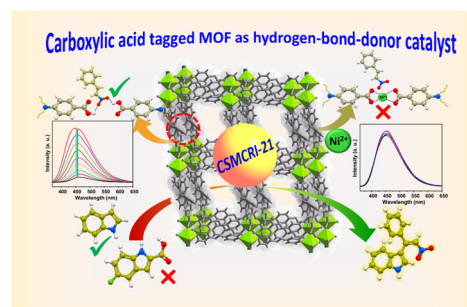
Angelica Laurita,\* Liang Zhu, Pierre-Etienne Cabelguen, Jérémie Auvergniot, Dominique Guyomard, Philippe Moreau and Nicolas Dupré\*



4954

### Dangling carboxylic-acid functionality in a fish-bone-shaped 2D framework as a hydrogen-bond-donating catalyst in Friedel–Crafts alkylation

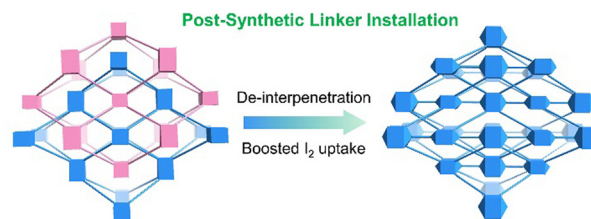
Nilanjan Seal and Subhadip Neogi\*



4958

### Post-synthetic linker installation: an unprecedented strategy to enhance iodine adsorption in metal–organic frameworks

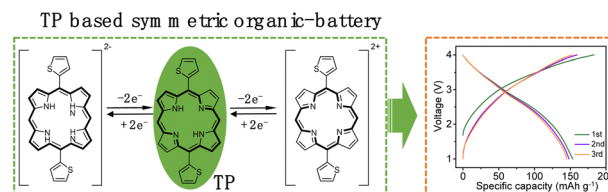
Zi-Jian Li, Yu Ju, Jie Qiu, Zhi-Hui Zhang, Linjuan Zhang, Ming-Yang He, Jian-Qiang Wang and Jian Lin\*



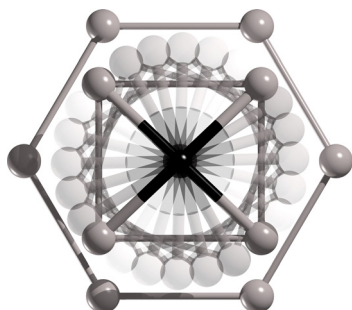
4962

### A bipolar porphyrin molecule for stable dual-ion symmetric batteries with high potential

Youlian Zeng, Jiarong Zhou, Jiahao Zhang, Yao Liao, Caihong Sun, Yachao Su, Ping Gao\* and Songting Tan\*



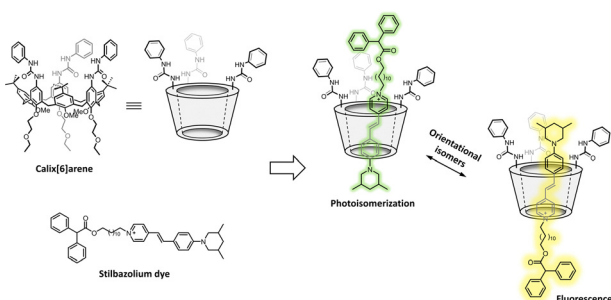
4966



### CA<sub>11</sub><sup>-</sup>: a molecular rotor with a quasi-planar tetracoordinate carbon

Li-Xia Bai, Jorge Barroso, Mesías Orozco-Ic, Filiberto Ortiz-Chi, Jin-Chang Guo\* and Gabriel Merino\*

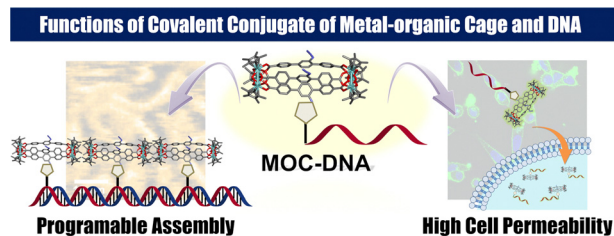
4970



### Selective enhancement of organic dye properties through encapsulation in rotaxane orientational isomers

Leonardo Andreoni, Federica Cester Bonati, Jessica Groppi, Davide Balestri, Gianpiero Cera, Alberto Credi, Andrea Secchi\* and Serena Silvi\*

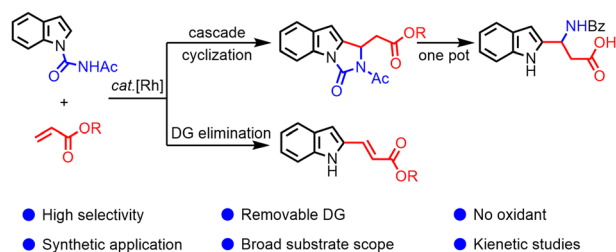
4974



### Creation of single molecular conjugates of metal-organic cages and DNA

Toshinobu Nakajo, Shinpei Kusaka, Haruka Hiraoka, Kohei Nomura, Noriaki Matsubara, Rintaro Baba, Yuki Yoshida, Kosuke Nakamoto, Masakazu Honma, Hiroaki Iguchi, Takayuki Uchihashi, Hiroshi Abe and Ryotaro Matsuda\*

4978



### Rh(III)-catalyzed regioselective versatile indole derivatization: delivering potential of rare $\beta$ -(1*H*-indol-2-yl)- $\beta$ -amino acids in one pot

Shuaizhong Zhang, Jinquan Zhang and Hongbin Zou\*



## CORRECTION

4982

**Correction: Study of highly stable electrochemiluminescence from  $[\text{Ru}(\text{bpy})_3]^{2+}$ /dicyclohexylamine and its application in visualizing sebaceous fingerprint**

Mathavan Sornambigai, Lingagauder Jaijanarathanan, Shekar Hansda and Shanmugam Senthil Kumar\*

