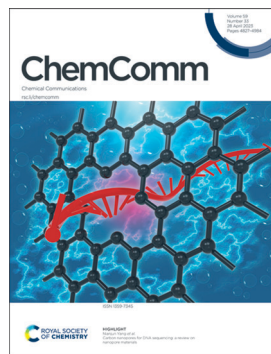


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ISSN 1359-7345 CODEN CHCOFS 59(33) 4827-4984 (2023)



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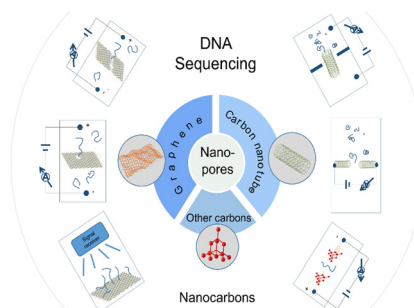
See Nianjun Yang *et al.*,  
pp. 4838–4851.  
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Jing Xu from  
*Chem. Commun.*,  
2023, 59, 4838.

## HIGHLIGHT

4838

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

Jing Xu, Xin Jiang and Nianjun Yang\*

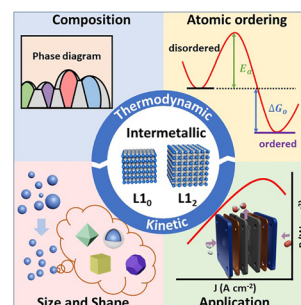


## FEATURE ARTICLES

4852

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

Siying Yu and Hong Yang\*



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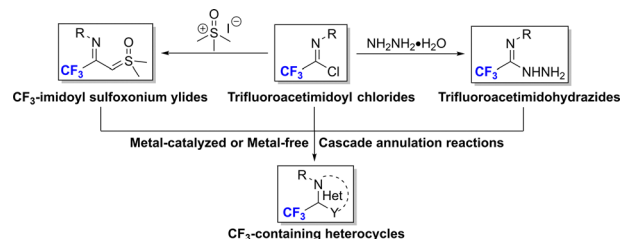


## FEATURE ARTICLES

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

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

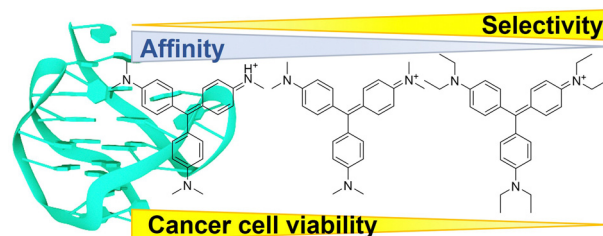


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## Simple and fast screening for structure-selective G-quadruplex ligands

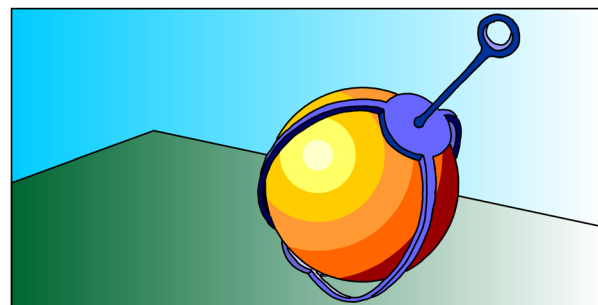
Yoshiki Hashimoto, Yoshiki Imagawa, Kaho Nagano, Ryuichi Maeda, Naho Nagahama, Takeru Torii, Natsuki Kinoshita, Nagisa Takamiya, Keiko Kawauchi, Hisae Tatesishi-Karimata, Naoki Sugimoto and Daisuke Miyoshi\*



4895

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

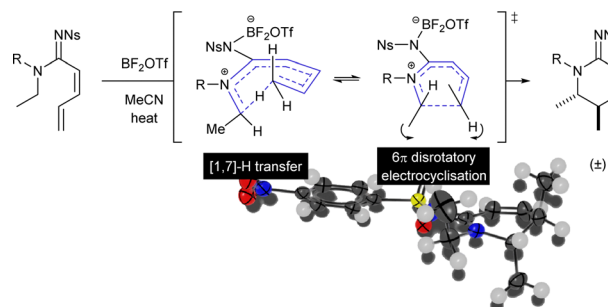
Erich Henrik Peters and Marcel Mayor\*



4899

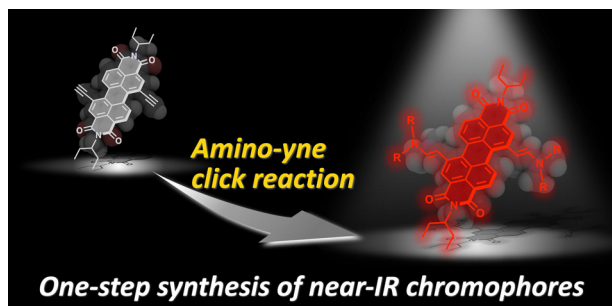
Stereodefined synthesis of cyclic amidines by domino 1,7-H shift and 6 $\pi$  electrocyclisation

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



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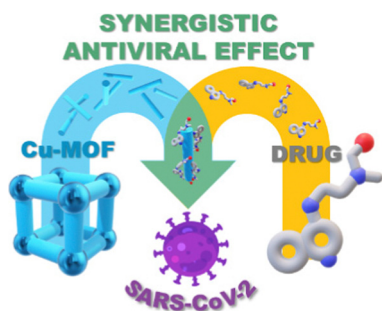
4903



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

Haruki Sanematsu, Masayuki Takeuchi and Atsuro Takai\*

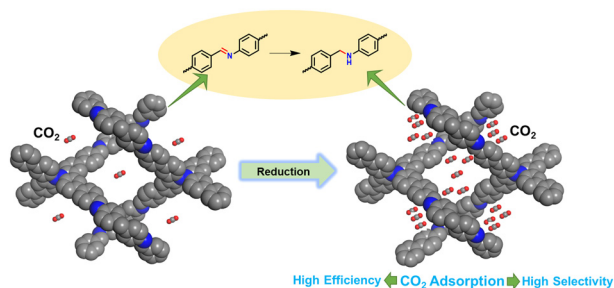
4907



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

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

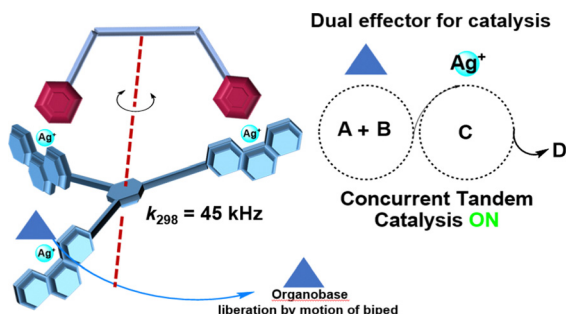
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**Construction of rigid amine-linked three-dimensional covalent organic frameworks for selectively capturing carbon dioxide**

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 Schmittle\*

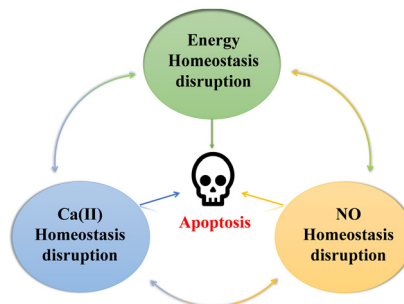


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### An efficient biomimetic nano-regulator inducing simultaneous calcium ion/nitric oxide/energy metabolism triple homeostasis disruption for synergetic cancer therapy

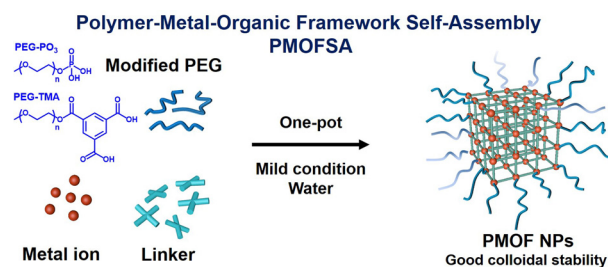
Chenchen Hu, Fan Jiang, Yixiao Li, Ruiyang Man and Zhengze Yu\*



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\*

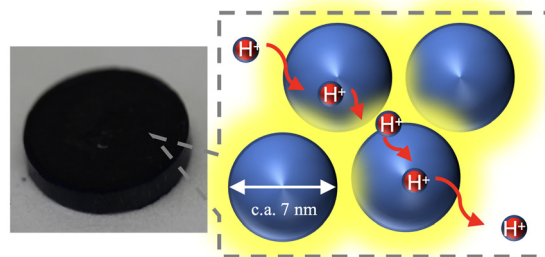


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### Surface modification enhances the bulk proton conductivity of Prussian blue

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

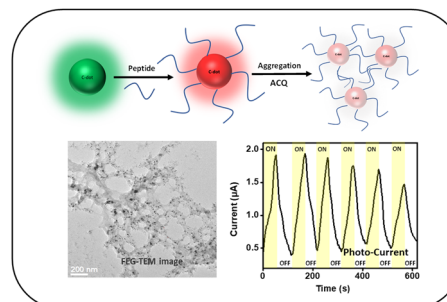
#### Surface modification enhances bulk proton conductivity



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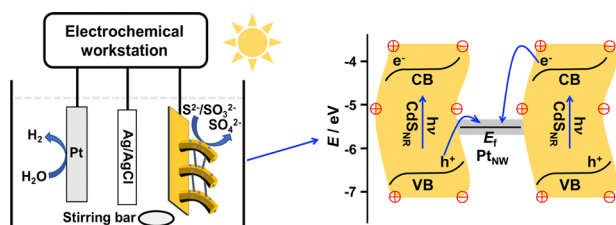
### Surface modification of carbon dots *via* peptide covalent conjugation

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





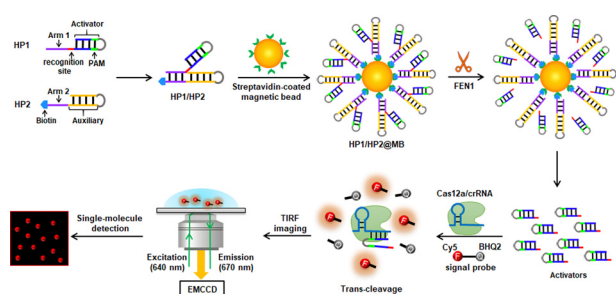
4935



### 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\*

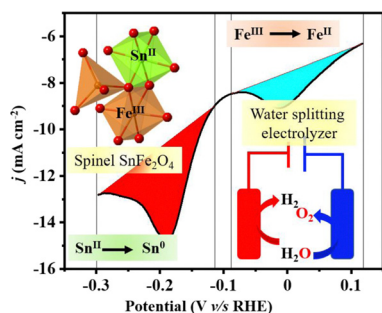
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### CRISPR/Cas12a-enhanced single-molecule counting for sensitive detection of flap endonuclease 1 activity at the single-cell level

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

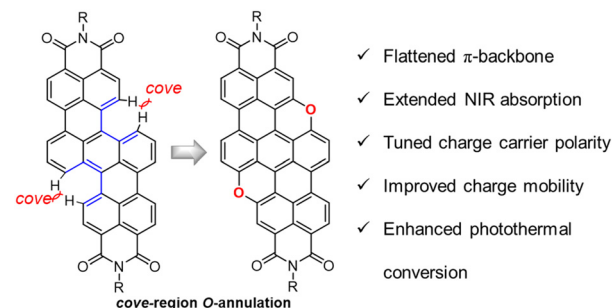
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### Redox-active Sn(II) to lead to SnFe<sub>2</sub>O<sub>4</sub> spinel as a bi-functional water splitting catalyst

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

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### 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\*

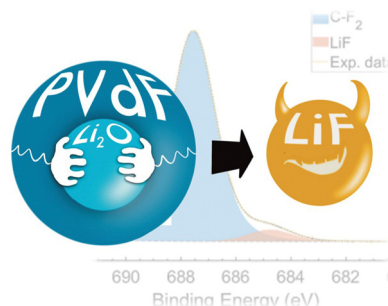


## COMMUNICATIONS

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

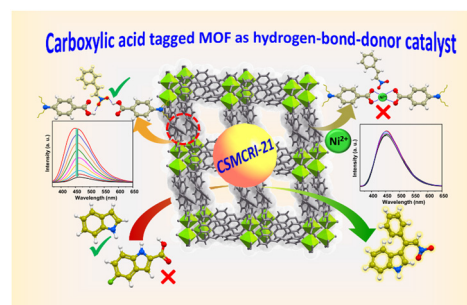
Angelica Laurita,\* Liang Zhu, Pierre-Etienne Cabelguen, Jérémie Auvergniot, Dominique Guyomard, Philippe Moreau and Nicolas Dupré\*



4954

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

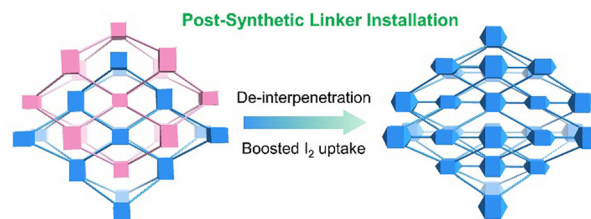
Nilanjan Seal and Subhadip Neogi\*



4958

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

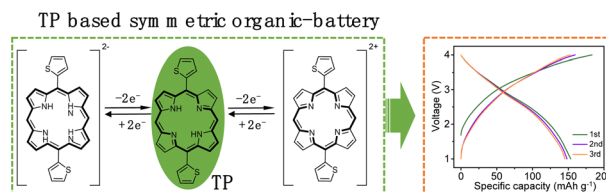
Zi-Jian Li, Yu Ju, Jie Qiu, Zhi-Hui Zhang, Linjuan Zhang, Ming-Yang He, Jian-Qiang Wang and Jian Lin\*



4962

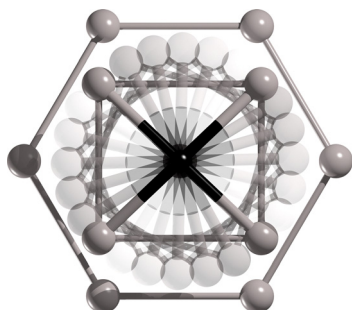
**A bipolar porphyrin molecule for stable dual-ion symmetric batteries with high potential**

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



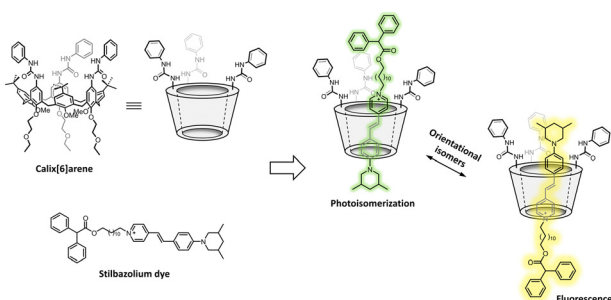
## COMMUNICATIONS

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**Cal<sub>11</sub><sup>−</sup>: a molecular rotor with a quasi-planar tetracoordinate carbon**

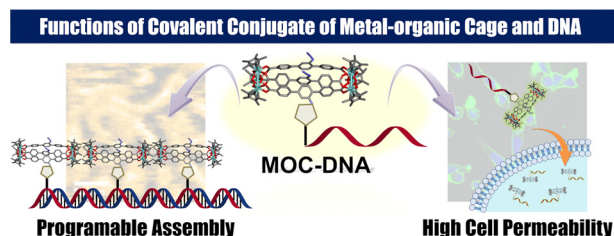
Li-Xia Bai, Jorge Barroso, Mesías Orozco-Ic, Filiberto Ortiz-Chi, Jin-Chang Guo\* and Gabriel Merino\*

4970

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

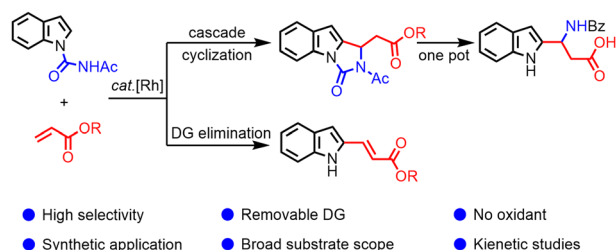
Leonardo Andreoni, Federica Cester Bonati, Jessica Groppi, Davide Balestri, Gianpiero Cera, Alberto Credi, Andrea Secchi\* and Serena Silvi\*

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**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\*

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**Rh(III)-catalyzed regioselective versatile indole derivatization: delivering potential of rare β-(1*H*-indol-2-yl)-β-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\*

