

# Chem Soc Rev

Chemical Society Reviews

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## IN THIS ISSUE

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See Liang Cheng et al., pp. 2031–2081.  
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### Inside cover

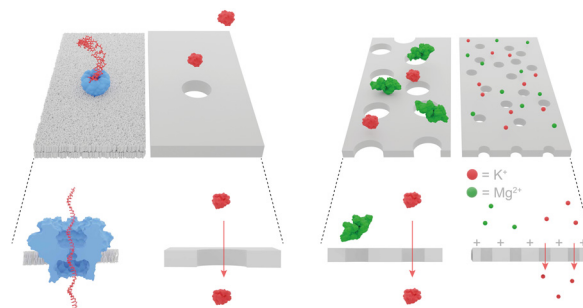
See Hiroyuki Furuta, Lechostaw Latos-Grażyński et al., pp. 2082–2144.  
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## VIEWPOINT

1983

### Nanopores: synergy from DNA sequencing to industrial filtration – small holes with big impact

Zuzanna S. Siwy,\* Merlin L. Bruening\* and Stefan Howorka\*

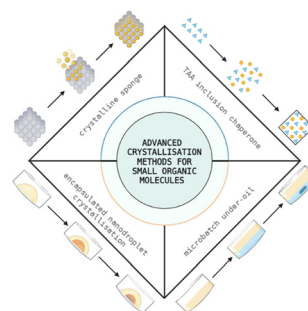


## TUTORIAL REVIEWS

1995

### Advanced crystallisation methods for small organic molecules

J. P. Metherall,\* R. C. Carroll, S. J. Coles, M. J. Hall\* and M. R. Probert\*



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Chemical Society Reviews

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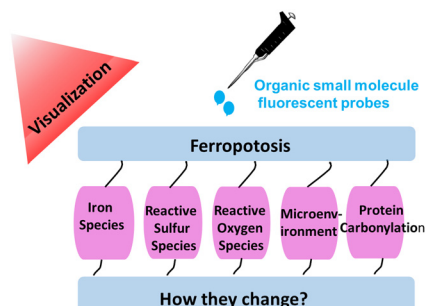


## TUTORIAL REVIEWS

2011

## Fluorescent probes for ferroptosis bioimaging: advances, challenges, and prospects

Junling Yin,\* Jingting Zhan, Qingxia Hu, Shuhong Huang and Weiyang Lin\*

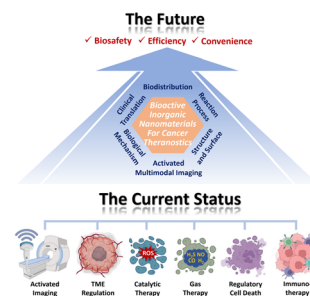


## REVIEW ARTICLES

2031

## Bioactive inorganic nanomaterials for cancer theranostics

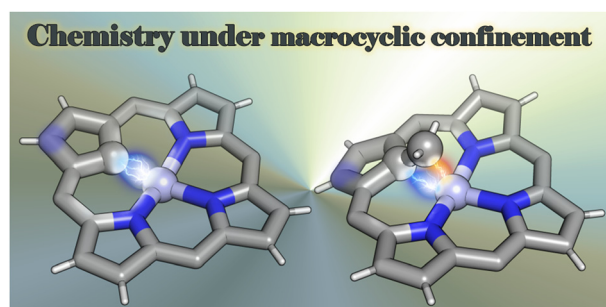
Zifan Pei, Huali Lei and Liang Cheng\*



2082

## Organometallic chemistry confined within a porphyrin-like framework

Michał J. Białek, Karolina Hurej, Hiroyuki Furuta\* and Lechostaw Latos-Grażyński\*

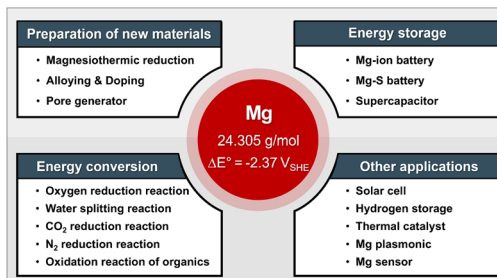


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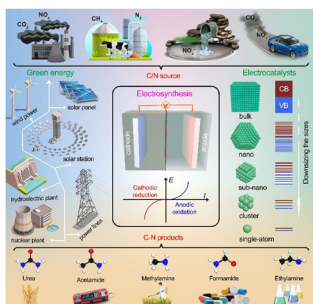
## Magnesium: properties and rich chemistry for new material synthesis and energy applications

Cheol-Hwan Shin, Ha-Young Lee, Caleb Gyan-Barimah, Jeong-Hoon Yu and Jong-Sung Yu\*

Mg acts as reducing agent, pore generator, catalysis site, and chemical regulator.



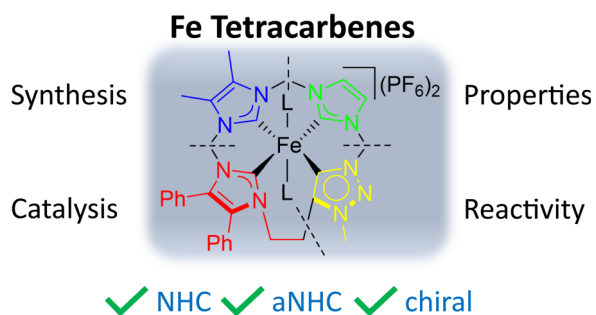
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## Electrochemical C–N coupling of CO<sub>2</sub> and nitrogenous small molecules for the electro-synthesis of organonitrogen compounds

Xianyun Peng, Libin Zeng, Dashuai Wang, Zhibin Liu, Yan Li, Zhongjian Li, Bin Yang, Lecheng Lei, Liming Dai\* and Yang Hou\*

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## Cyclic iron tetra N-heterocyclic carbenes: synthesis, properties, reactivity, and catalysis

Tim P. Schlachta and Fritz E. Kühn\*

