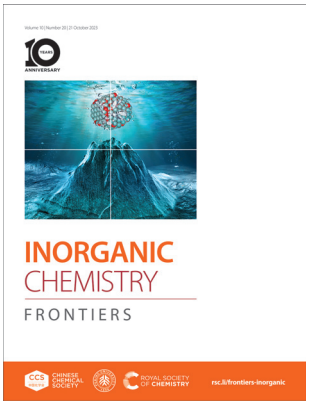
INORGANIC CHEMISTRY
FRONTIERS

rsc.li/frontiers-inorganic



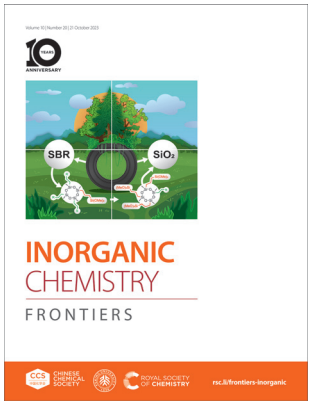
## IN THIS ISSUE

ISSN 2052-1553 CODEN ICFNAW 10(20) 5791–6118 (2023)




**Cover**
See Nuria Romero, Xavier Solans-Monfort, Karine Philippot, Xavier Sala *et al.*, pp. 5885–5896.

Image reproduced by permission of Xavier Sala from *Inorg. Chem. Front.*, 2023, **10**, 5885.

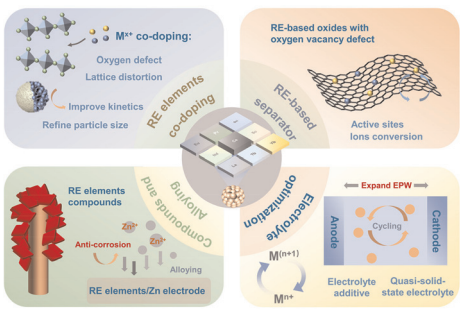



**Inside cover**
See Jędrzej Walkowiak *et al.*, pp. 5897–5907.

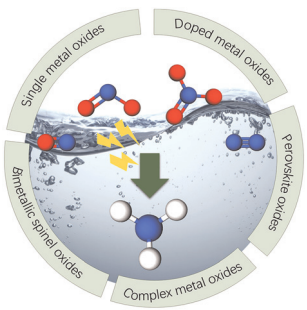
Image reproduced by permission of Yurii Levshyn. *Inorg. Chem. Front.*, 2023, **10**, 5897.

## REVIEWS







Inorganic Chemistry Frontiers (electronic: ISSN 2052-1553) is published 24 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to RSC Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK
Tel +44 (0)1223 432398; E-mail **orders@rsc.org**

2023 Annual (electronic) subscription price: £2,182; US$3,492. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT.

If you take an institutional subscription to any Royal Society of Chemistry journal you are entitled to free, site-wide web access to that journal. You can arrange access via Internet Protocol (IP) address at **www.rsc.org/ip**

Customers should make payments by cheque in sterling payable on a UK clearing bank or in US dollars payable on a US clearing bank.



ROYAL SOCIETY OF CHEMISTRY

# INORGANIC CHEMISTRY

## FRONTIERS

An international, high quality journal for interdisciplinary research between inorganic chemistry and related subjects.

**rsc.li/frontiers-inorganic**

Published in collaboration with the Chinese Chemical Society and College of Chemistry and Molecular Engineering, Peking University



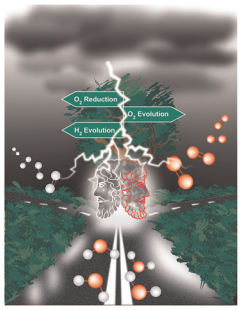
## Information for Authors

Full details on how to submit material for publication in Inorganic Chemistry Frontiers are given in the Instructions for Authors (available from http://**www.rsc.org/authors**). Submissions should be made via the journal's homepage: **rsc.li/frontiers-inorganic**

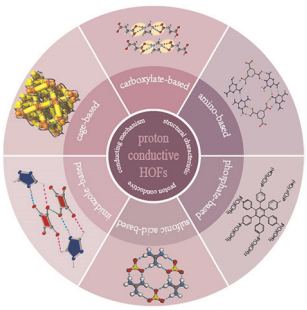
Authors may reproduce/republish portions of their published contribution without seeking permission from the Royal Society of Chemistry, provided that any such republication is accompanied by an acknowledgement in the form: (Original Citation)–Reproduced by permission of the Royal Society of Chemistry.

## REVIEWS



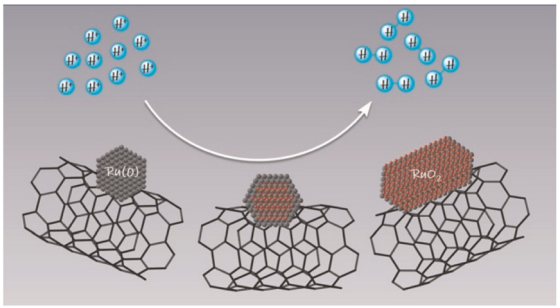




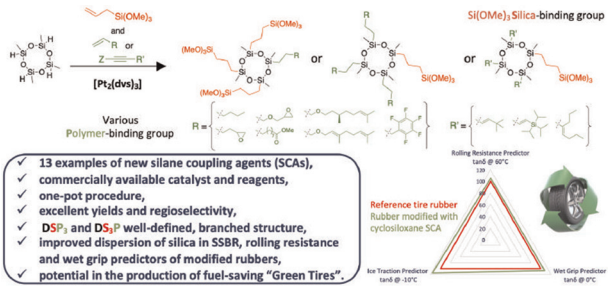




## RESEARCH ARTICLES





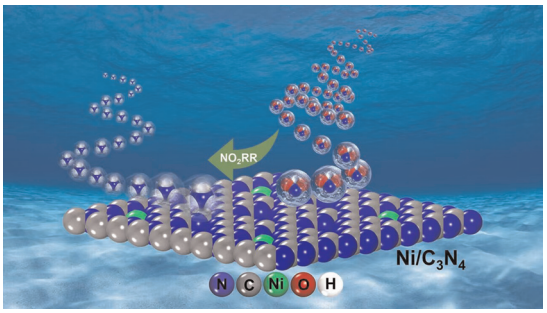


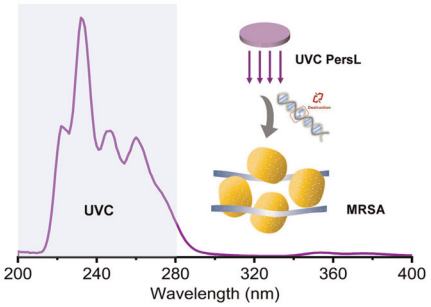
RESEARCH ARTICLES

RESEARCH ARTICLES

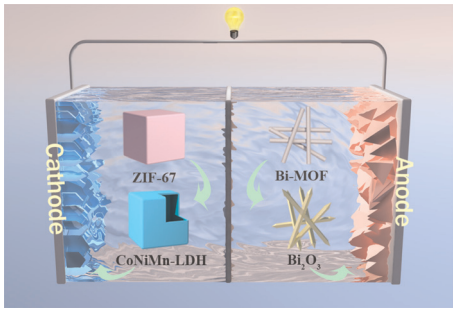




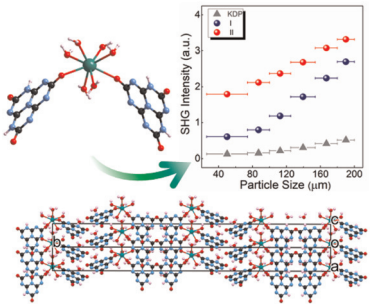




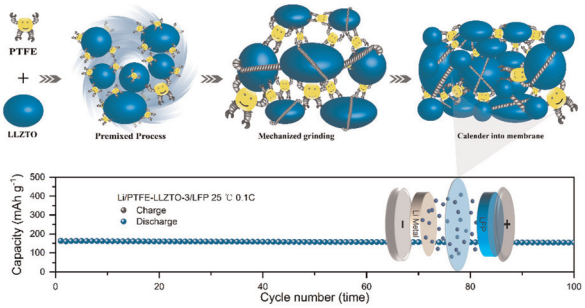


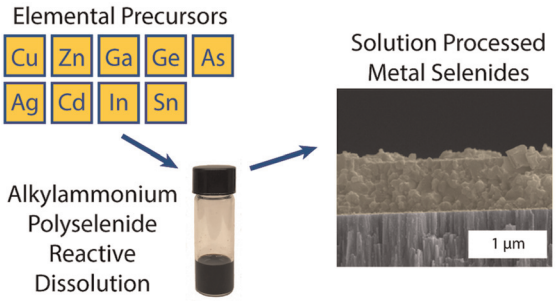
## RESEARCH ARTICLES

RESEARCH ARTICLES

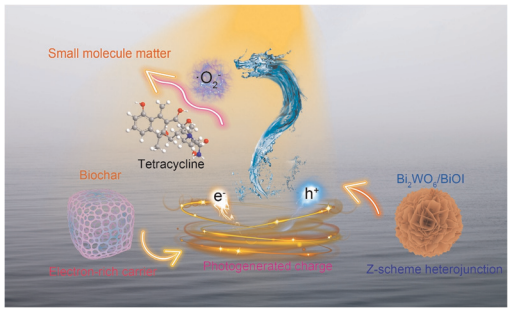




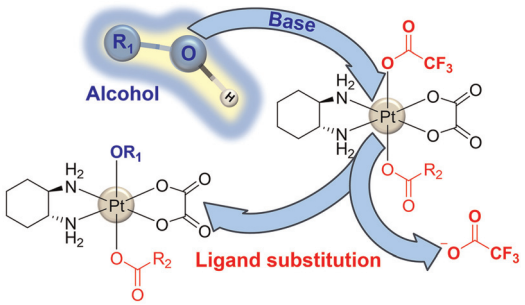




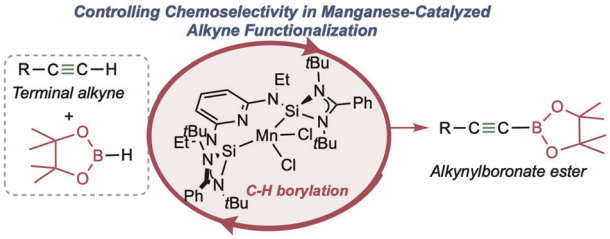





## RESEARCH ARTICLES

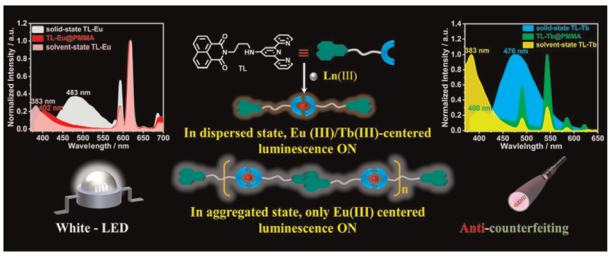
6067




### Chemoselective C(sp)–H borylation of terminal alkynes catalyzed by a bis(N-heterocyclicsilylene) manganese complex

Himani Ahuja, Harleen Kaur and Rebeca Arevalo*

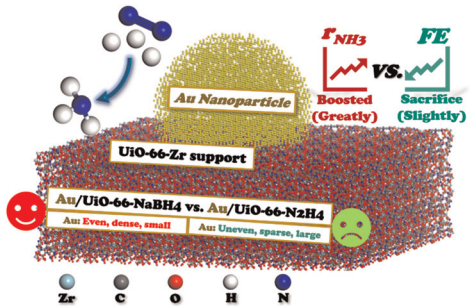
6077




### Tailoring photoluminescence and multifunctionalities of lanthanide coordination complexes employing ligand-controlled aggregation states

Jun Wang,* Qianbo Zhang, Zhiming Chen, Xin Lan, Wenjing Shi and Zhiqiang Li*

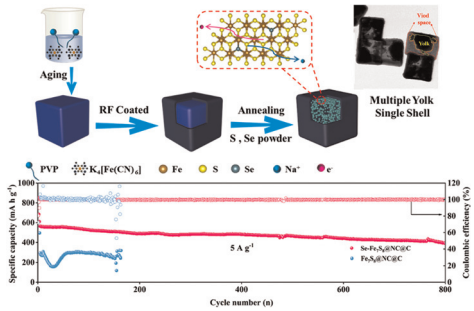
6086




### Au/UiO-66-Zr nanohybrids: boosting the yield rates of electrochemical ammonia synthesis with the sacrificial effects of faradaic efficiencies

Xiaoyu Qian, Lu Ding, Yanling Zhao, Zhichun Li, Yuanxiu Liao, Jiabin Tan and Xiaobo He*

6105




### Prussian blue-derived multiple yolk–single shell-structured Se-doped $Fe_7S_8$@NC@C microcube composites as high-rate anodes for sodium-ion batteries

Qingping Li, Peng Wang, Yuxiang Chen, Xiangyue Liao, Ransha Deng, Qiaoji Zheng* and Dunmin Lin*

CORRECTION

6116

# Correction: A bifunctional hierarchical core–shell $Mo_2C@ZnIn_2S_4$ Schottky junction for efficient photocatalytic $H_2$-evolution integrated with valuable furfural production

Jian Yang, Xiaorui Zhang, Zikang Zeng, Chuang Han and Yujun Liang*