

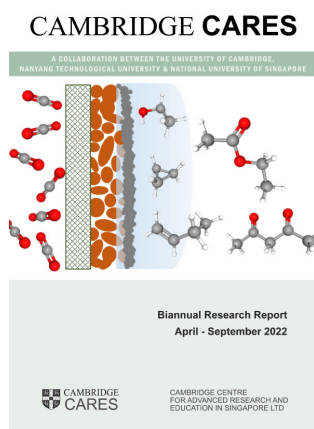


CAMBRIDGE  
CARES

CAMBRIDGE CENTRE  
FOR ADVANCED RESEARCH AND  
EDUCATION IN SINGAPORE LTD.

## CARES Biannual Newsletter Issue 2, May 2023

# Highlights



### *Biannual Report*

Our 17th Biannual Report highlights all research programmes, small projects, and collaborations; including updated publications and forewords from Cambridge PIs.

[read more >>](#)



### *10th anniversary*

We are excited to be celebrating 10 years of CARES in Singapore with a Scientific Showcase in December! Please Save the Date via [this webpage](#).

[CARES on LinkedIn](#)

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### *Drone event*

We hosted a two-part drone event: [Dr Molly Haugen](#) explained her research on utilising drones to monitor urban and maritime pollution; this was followed by a demonstration.

[watch key points from the demo >>](#)

# Outreach & Engagement



**Top Left (TL):** We welcomed Scott Elgersma and Subhajit Bhattacharjee from Cambridge as our first [Visiting Scientists](#) since 2019. [Read more.](#)

**Top Right (TR):** [Prof Bassam Dally](#) from KAUST delivered a seminar at CREATE.

**Middle:** Consortium members for [Pharma Innovation Programme Singapore \(PIPS\)](#) visit the CARES lab.

**Bottom:** CLIC PIs hosted a webinar on "Becoming a lifelong learner - the importance of mental flexibility". [Watch the webinar here.](#)

# Congratulations

## Dr Law Li Chin

Built an online calculator to assess the performance of future low-carbon ships



## Highly Cited Researchers

Five CARES scientists have been recognised as true pioneers in their fields by Clarivate



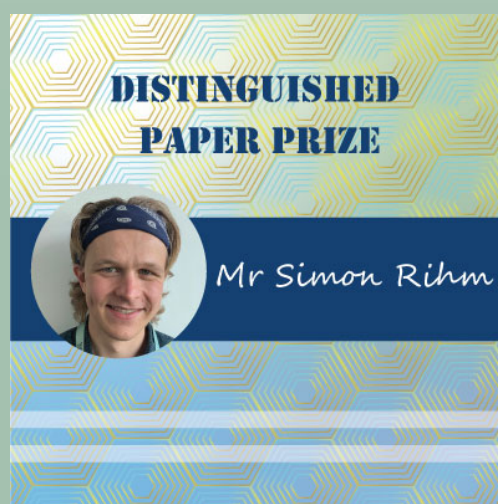
## Assoc Prof Victoria Leong

Received the highest research award from Nanyang Technological University (NTU)  
-Flip to page 20 of the link-



## Mr Simon Rihm

Wins the Distinguished Paper Prize from the Combustion Institute for an outstanding paper on CO2 reduction





## New Fellows

Two CARES Professors became new Fellows of the Royal Academy of Engineering

## NEW FELLOWS IN 2022

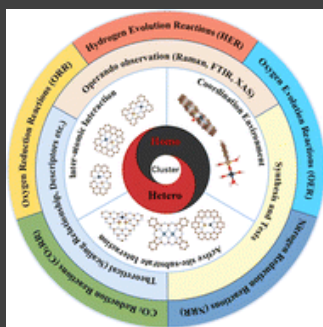


Prof Epaminondas  
Mastorakos



Prof Manish  
Chhowalla

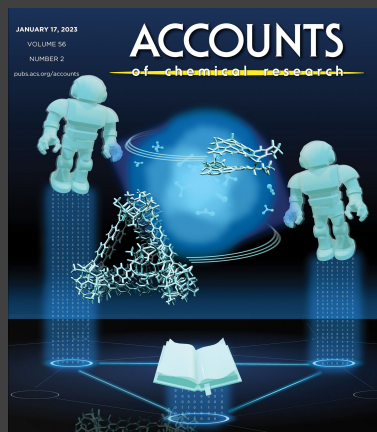
## Publications



### Multi-atom cluster catalysts for efficient electrocatalysis

*Libo Sun, Vikas Reddu, and Xin Wang*

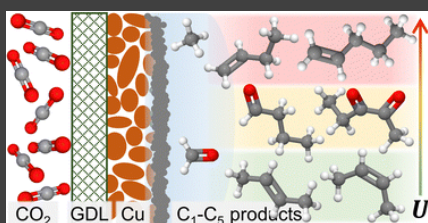
This paper has a comprehensive review of the recent development of multi-atom cluster catalysts for electrochemical energy applications. [Read the paper.](#)



### Knowledge Engineering in Chemistry: From Expert Systems to Agents of Creation

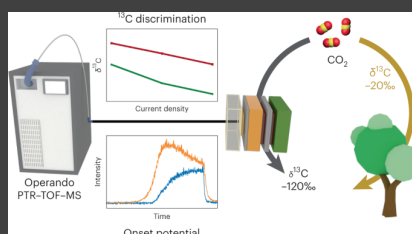
*Aleksandar Kondinski, Jiaru Bai, Sebastian Mosbach, Jethro Akroyd, and Markus Kraft*

This paper unveils the art and challenges of knowledge engineering in chemistry. [Read the paper.](#)



### On the role of C4 and C5 products in electrochemical CO<sub>2</sub> reduction via copper-based catalysts

*Simon Rihm, Mikhail Kovalev, Alexei Lapkin, Joel W. Ager, and Markus Kraft*



### Operando proton-transfer-reaction time-of-flight mass spectrometry of carbon dioxide reduction electrocatalysis

*Hangjuan Ren, et al.*

This paper unravels the complex



This paper sheds light on two previously unknown reaction paths for electrocatalytic CO<sub>2</sub> reduction.

[Read the paper.](#)

formation pathways in electrochemical CO<sub>2</sub> reduction and sheds light on controlling product selectivity. [Read the paper.](#)

CARES is open to collaborating with new partners and projects. Please see our [Careers page](#) for a list of opportunities or email [enquiries@cares.cam.ac.uk](mailto:enquiries@cares.cam.ac.uk)

Thank you for reading this #CambridgeCARES newsletter, follow our social channels for any updates!



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CARES was established in 2013 in Singapore and is the University of Cambridge's only research centre outside the UK.

Flagship C4T programme on decarbonisation

AMPLE scales up nanomaterial production

CLIC studies cognitive flexibility throughout the life course

PIPS is an industry-funded project for pharmaceutical manufacturing

Cities Knowledge Graph focuses on urban planning

Knowledge Graph Driven P2P Energy Trading focuses on the energy market

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