Volume 53
Number 1
7 January 2024
Pages 1-366

Dalton Transactions

An international journal of inorganic chemistry

rsc.li/dalton

ISSN 1477-9226

ROYAL SOCIETY OF CHEMISTRY

PAPER

Artur Kasprzak *et al.*

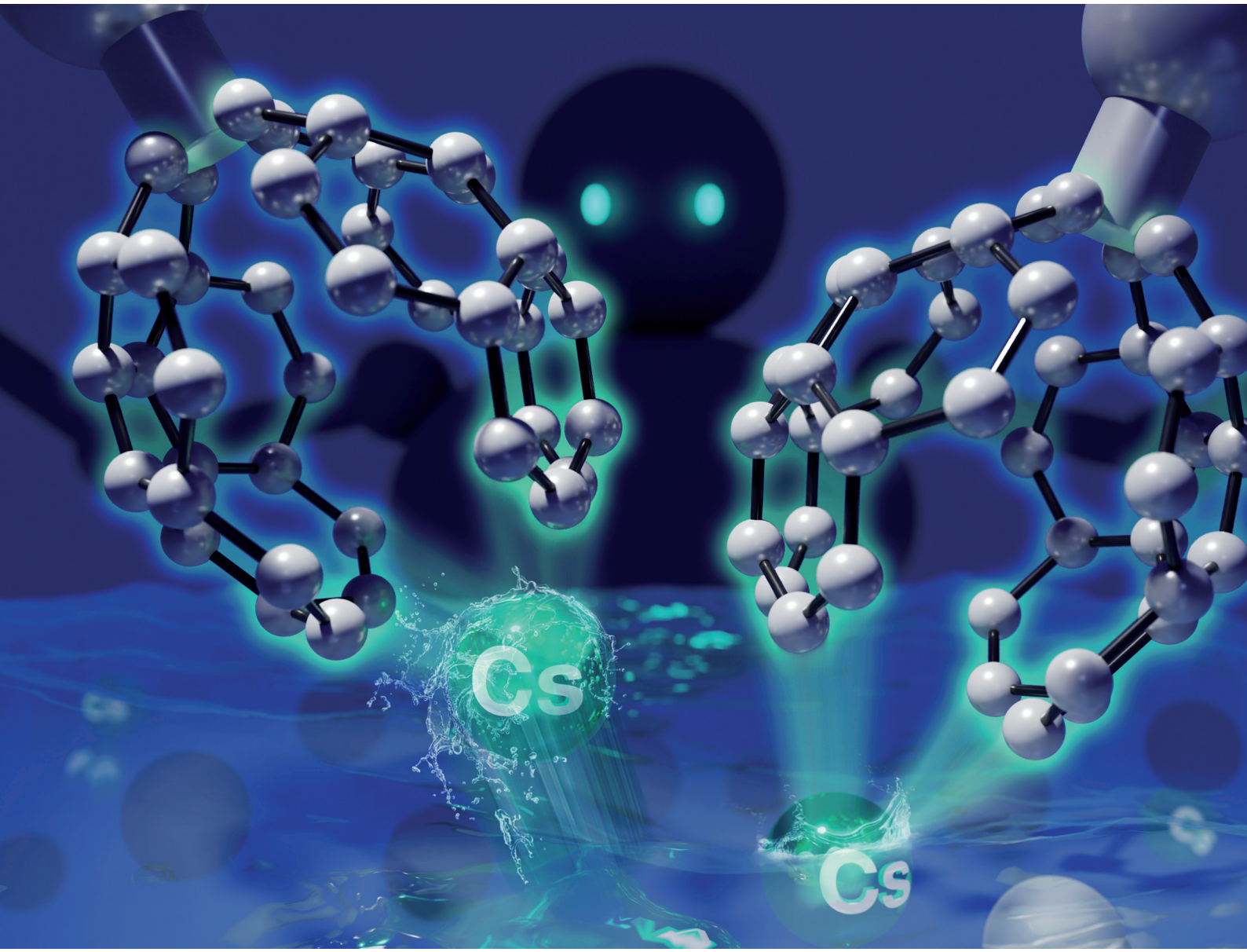
Oxidation-derived anticancer potential of sumanene–ferrocene conjugates

Volume 59
Number 63
14 August 2023
Pages 9547–9664

ChemComm

Chemical Communications

rsc.li/chemcomm



ISSN 1359-7345

ROYAL SOCIETY OF CHEMISTRY

COMMUNICATION

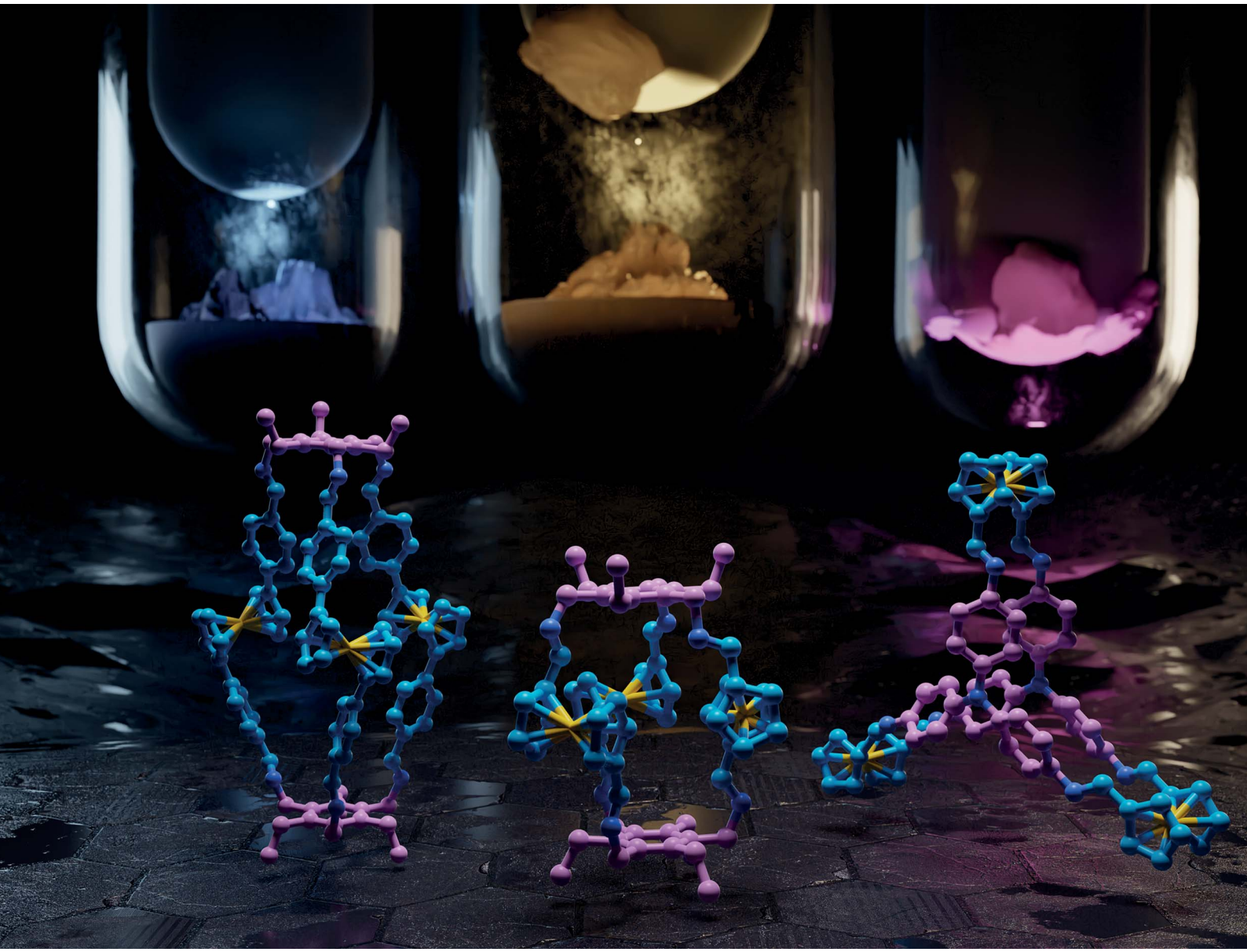
Artur Kasprzak *et al.*

A sumanene-containing magnetic nanoadsorbent for the removal of caesium salts from aqueous solutions

Volume 13
Number 10
14 March 2022
Pages 2799–3046

Chemical Science

rsc.li/chemical-science

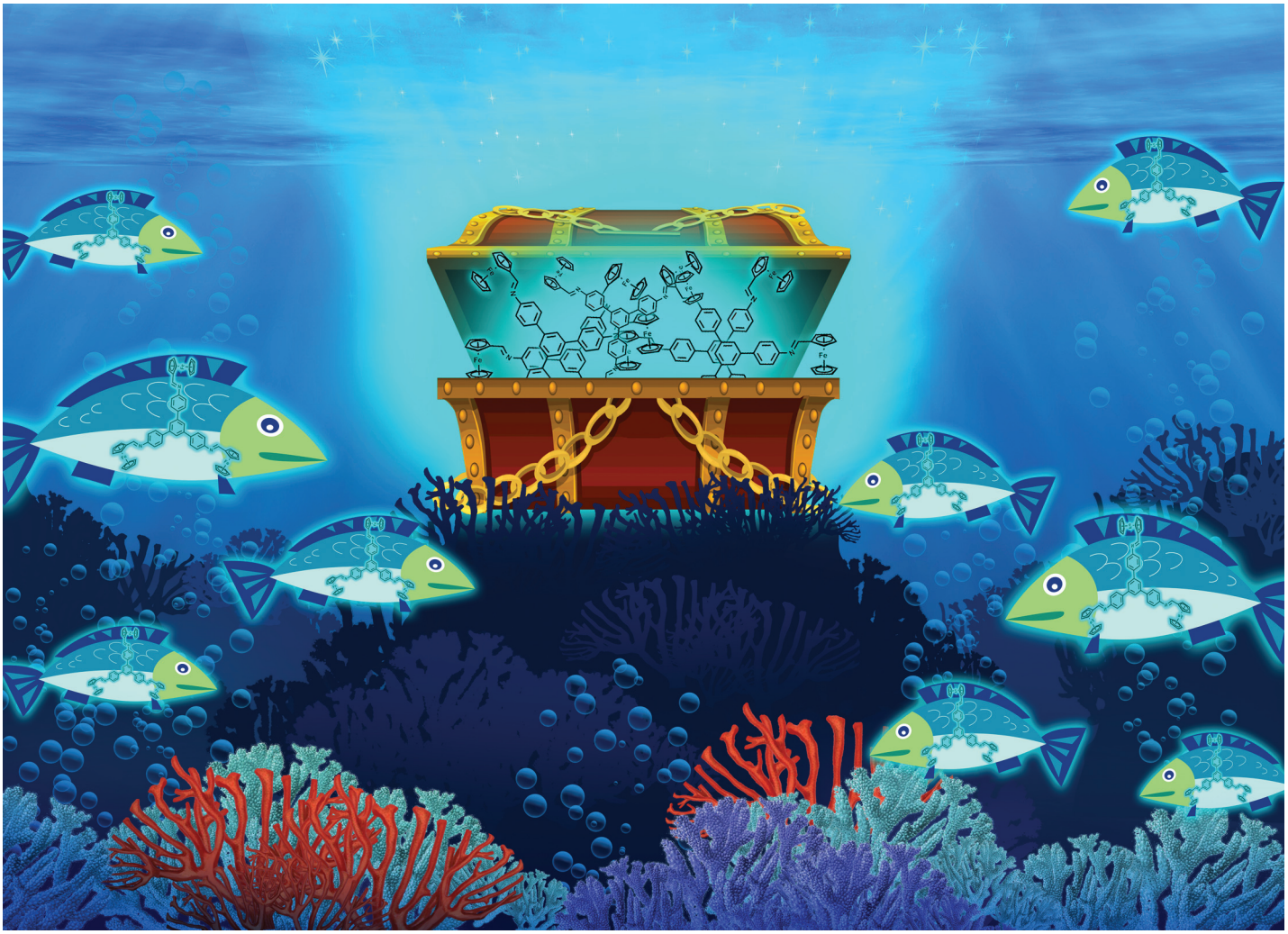


ISSN 2041-6539

ROYAL SOCIETY OF CHEMISTRY

EDGE ARTICLE

Artur Kasprzak, Bernd M. Schmidt *et al.*
Fast, solvent-free synthesis of ferrocene-containing organic cages *via* dynamic covalent chemistry in the solid state



Showcasing research from the group lead by Dr. Artur Kasprzak at the Faculty of Chemistry, Warsaw University of Technology, Poland.

Synthesis and structural, electrochemical and photophysical studies of triferrocenyl-substituted 1,3,5-triphenylbenzene: a cyan-light emitting molecule showing aggregation-induced enhanced emission

The Authors have obtained in excellent yield new 1,3,5-triphenylbenzene derivative bearing three ferrocenyl units. This easy-to-prepare metallocene compound exhibited strong cyan light emission that has been further boosted by the aggregation-induced enhanced emission effect.

As featured in:

See Artur Kasprzak *et al.*, *Dalton Trans.*, 2020, **49**, 14807.

ROYAL SOCIETY OF CHEMISTRY

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Registered charity number: 207890

Volume 49
Number 29
7 August 2020
Pages 9903-10280

Dalton Transactions

An international journal of inorganic chemistry

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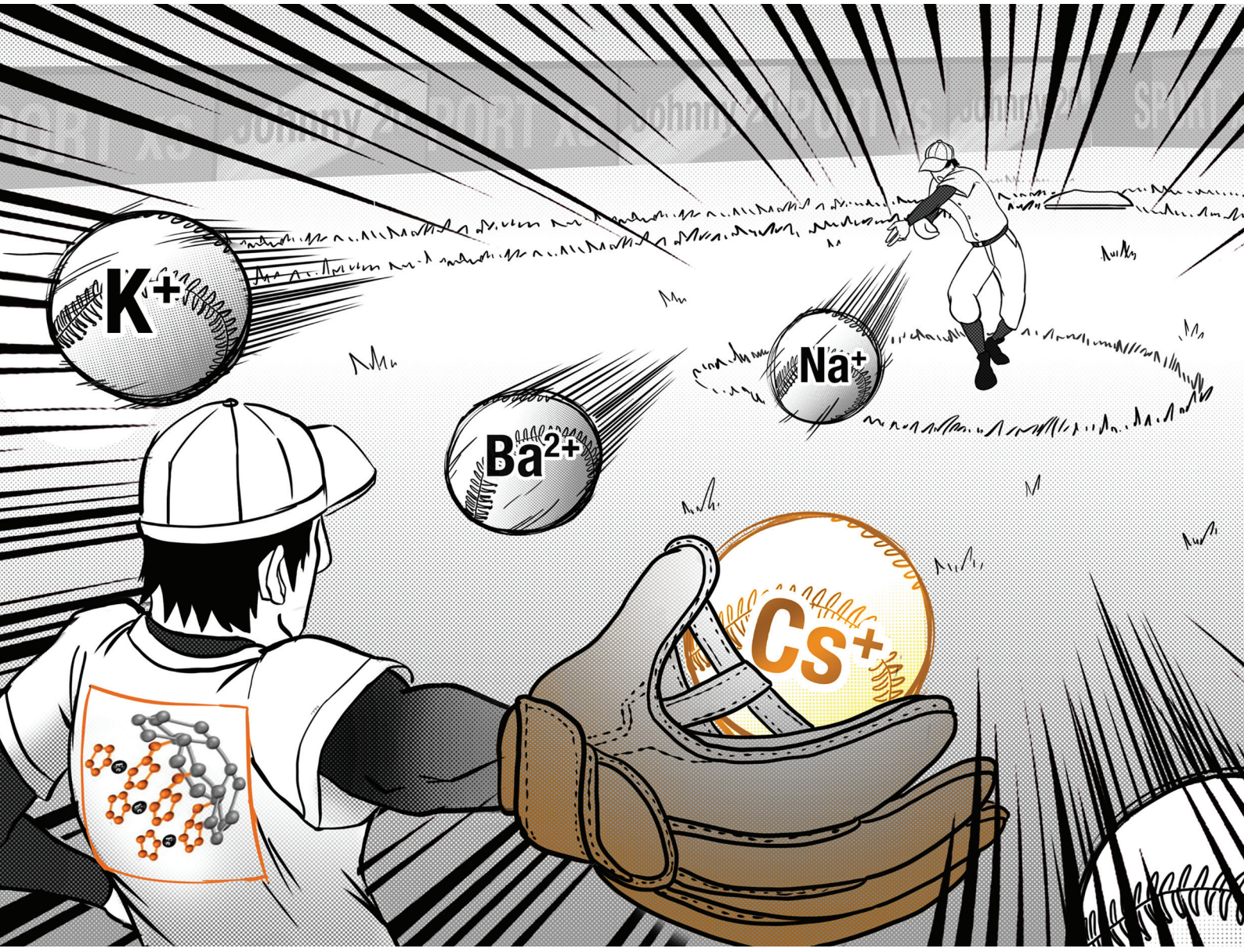


ISSN 1477-9226

ROYAL SOCIETY OF CHEMISTRY

PAPER

Artur Kasprzak *et al.*

Tris(ferrocenylmethidene)sumanene: synthesis, photophysical properties and applications for efficient caesium cation recognition in water

Volume 48 | Number 46 | 14 December 2019 | Pages 17135–17424

Dalton Transactions

An international journal of inorganic chemistry

rsc.li/dalton

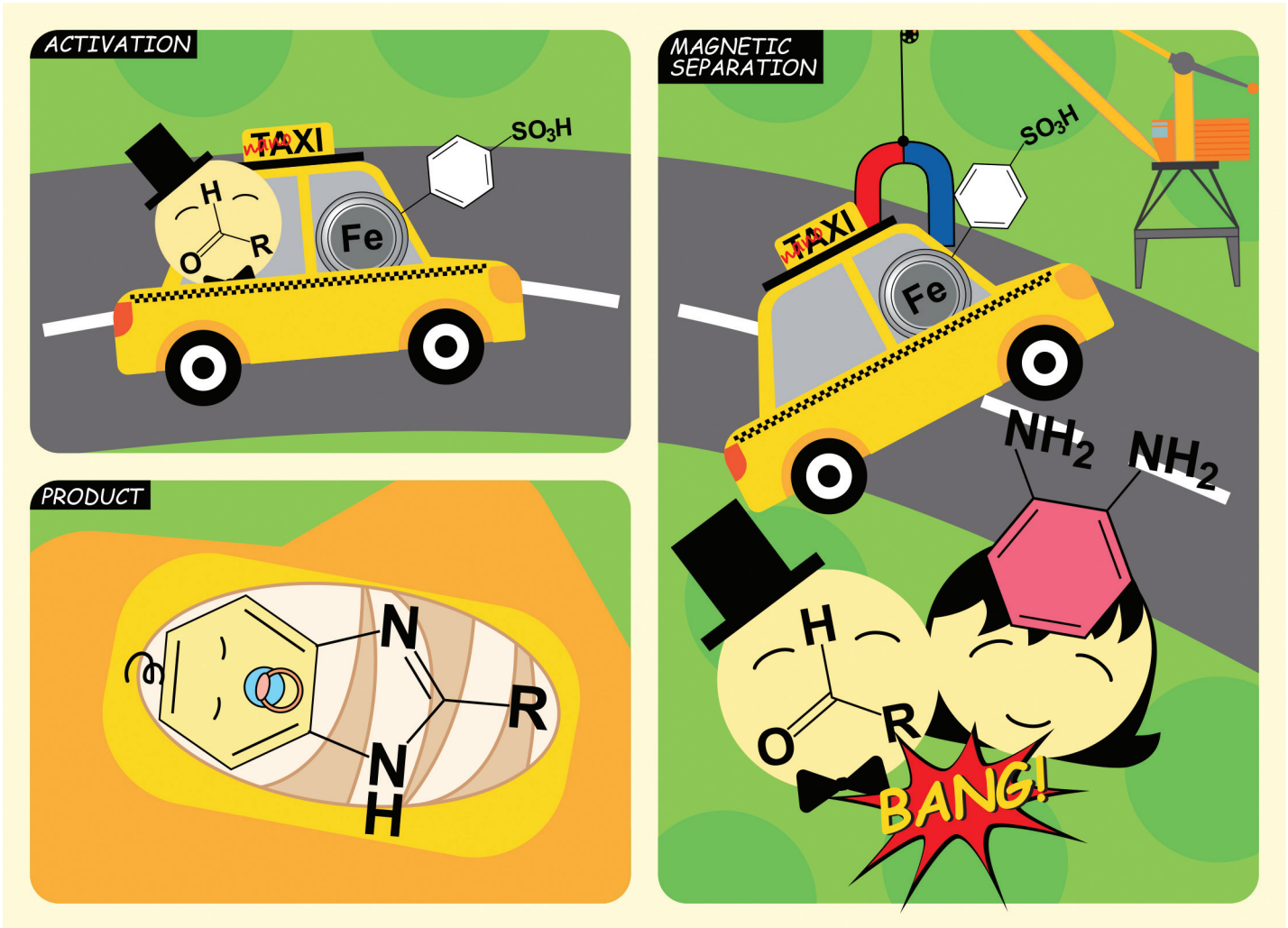
ISSN 1477-9226

ROYAL SOCIETY OF CHEMISTRY | Celebrating IYPT 2019

COMMUNICATION

Artur Kasprzak and Hidehiro Sakurai

Site-selective cation–π interaction as a way of selective recognition of the caesium cation using sumanene-functionalized ferrocenes



Showcasing research performed by Artur Kasprzak *et al.* at the Warsaw University of Technology, Poland.

Sulfonated carbon-encapsulated iron nanoparticles as an efficient magnetic nanocatalyst for highly selective synthesis of benzimidazoles

A magnetic nanocatalyst for the high-yield synthesis of benzimidazoles has been developed.

It is based on carbon-encapsulated iron nanoparticles functionalized with sulfonyl groups. The nanocatalyst retains its extraordinary activity for up to six reaction cycles and can be separated easily from the reaction mixture using a permanent magnet.

As featured in:

See Artur Kasprzak *et al.*, *Dalton Trans.*, 2018, **47**, 6314.

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An article presented by Artur Kasprzak *et al*. of the Warsaw University of Technology, Poland.

Addition of azomethine ylides to carbon-encapsulated iron nanoparticles

A method for the covalent functionalization of carbon-encapsulated iron nanoparticles is presented. The synthetic approach is based on the 1,3-cycloaddition of azomethine ylides to an exterior graphene layer of nanoparticles. This one-step approach results in high coverage degrees (12–21 wt%).

As featured in:

See Artur Kasprzak *et al.*, *Dalton Trans.*, 2018, **47**, 30.

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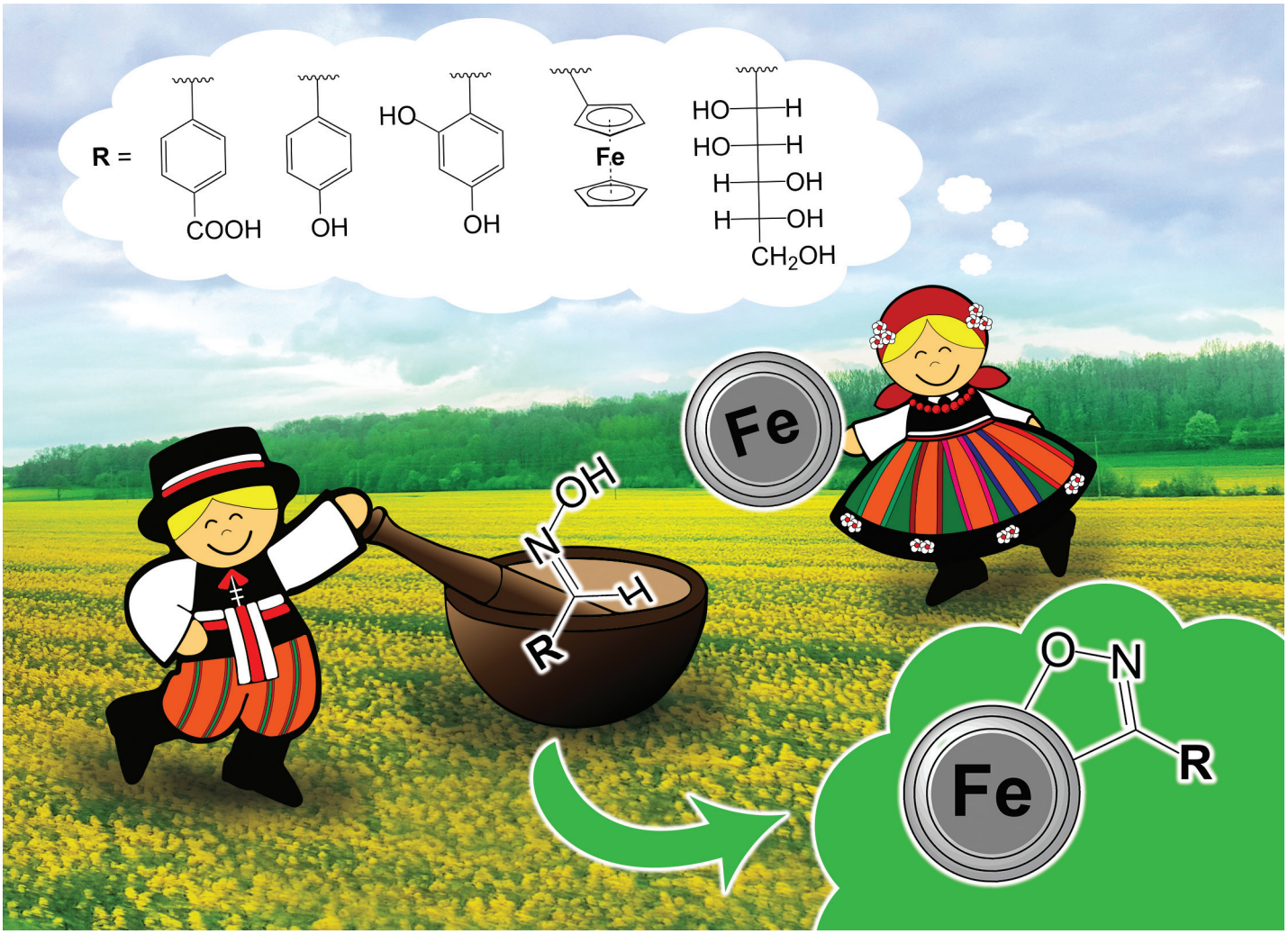

An article presented by Artur Kasprzak *et al.* of the Warsaw University of Technology, Poland.

Grinding-induced functionalization of carbon-encapsulated iron nanoparticles

A new mechanochemical functionalization route for the direct introduction of various types of organic moieties onto carbon-encapsulated iron nanoparticles has been developed. The method employs 1,3-cycloaddition reaction using nitrile oxides bearing unprotected hydroxyl and carboxyl groups, as well as a metal–organic unit. The developed environmentally improved functionalization method is fast and results in high degrees of coverage (16–33 wt%).

As featured in:

See Artur Kasprzak *et al.*, *Green Chem.*, 2017, **19**, 3510.

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Registered charity number: 207890