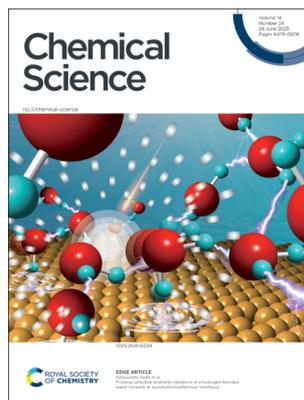


## IN THIS ISSUE

ISSN 2041-6539 CODEN CSHCBM 14(24) 6479–6808 (2023)



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**Inside cover**  
See Katsuyoshi Ikeda *et al.*, pp. 6531–6537.  
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## EDITORIAL

6491

### Amyloids and protein aggregation

Sara Linse and Tuomas Knowles



## REVIEW

6493

### Progress in the chemistry of molecular actinide-nitride compounds

Megan Keener, Leonor Maria and Marinella Mazzanti\*



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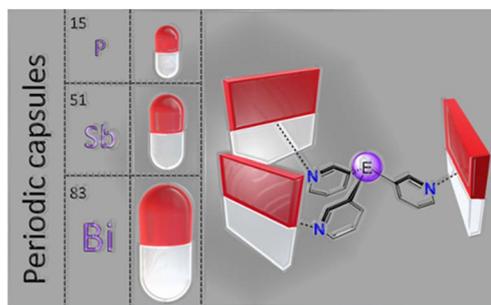
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6522

### Structural and dimensional control of porphyrin capsules using Group 15 tris(3-pyridyl) linkers

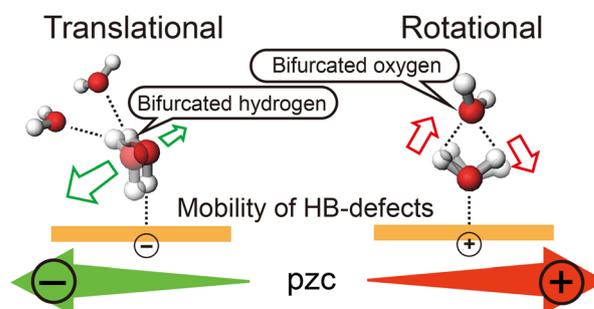
Álvaro García-Romero, Daniel Miguel, Dominic S. Wright, Celedonio M. Álvarez and Raúl García-Rodríguez\*



6531

### Probing collective terahertz vibrations of a hydrogen-bonded water network at buried electrochemical interfaces

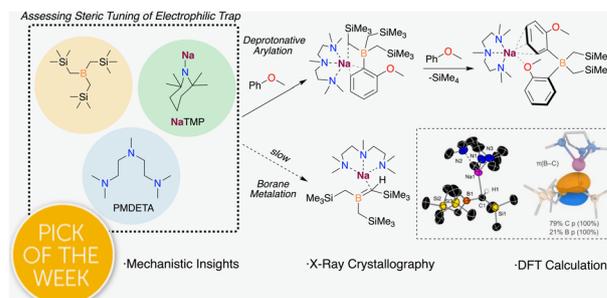
Taichi Isogai, Masayuki Uranagase, Kenta Motobayashi, Shuji Ogata and Katsuyoshi Ikeda\*



6538

### Sodium mediated deprotonative borylation of arenes using sterically demanding $B(CH_2SiMe_3)_3$ : unlocking polybasic behaviour and competing lateral borane sodiation

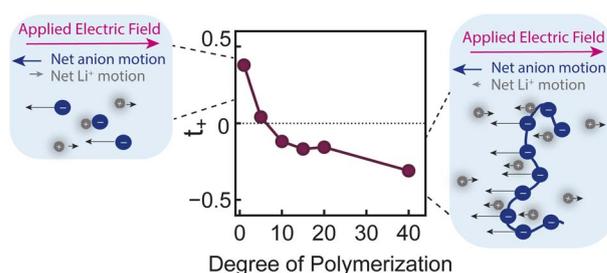
Andreu Tortajada, Leonie J. Bole, Manting Mu, Martin Stanford, Marconi N. Peñas-Defrutos, Max García-Melchor\* and Eva Hevia\*



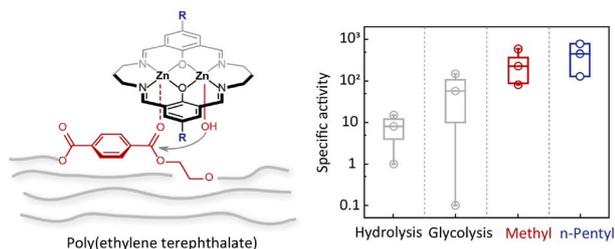
6546

### Ion correlation and negative lithium transference in polyelectrolyte solutions

Helen K. Bergstrom,\* Kara D. Fong, David M. Halat, Carl A. Karouta, Hasan C. Celik, Jeffrey A. Reimer and Bryan D. McCloskey\*



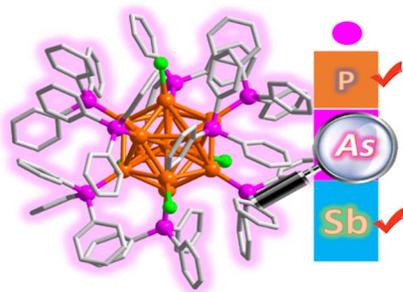
6558



### PET recycling under mild conditions *via* substituent-modulated intramolecular hydrolysis

Shengbo Zhang, Yingying Xue, Yanfen Wu, Yu-Xiao Zhang, Ting Tan\* and Zhiqiang Niu\*

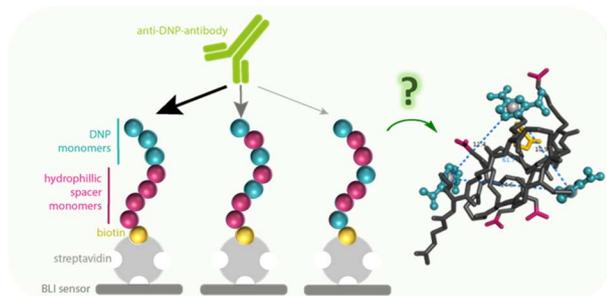
6564



### Monoarsine-protected icosahedral cluster [Au<sub>13</sub>(AsPh<sub>3</sub>)<sub>8</sub>Cl<sub>4</sub>]<sup>+</sup>: comparative studies on ligand effect and surface reactivity with its stibine analogue

Jiu-Hong Yu, Zhi-Rui Yuan, Jing Xu, Jin-Gui Wang, Mohammad Azam, Tian-Duo Li, Ying-Zhou Li\* and Di Sun\*

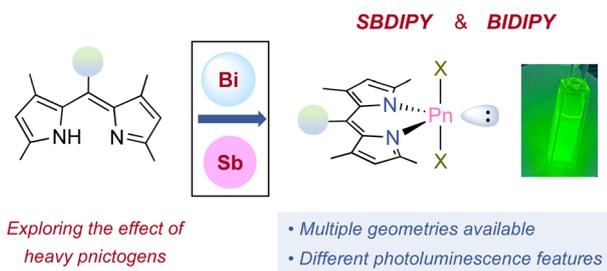
6572



### Sequence-defined antibody-recruiting macromolecules

Resat Aksakal, Corentin Tonneaux, Annemiek Uvyn, Mathieu Fossépré, Hatice Turgut, Nezha Badi\*, Mathieu Surin\*, Bruno G. De Geest\* and Filip. E. Du Prez\*

6579



### Replacing the BO in BODIPY: unlocking the path to SBDIPY and BIDIPY chromophores

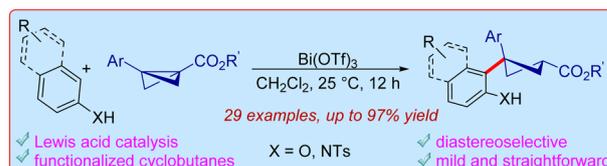
André Korzun, Stefano Crespi, Christopher Golz and Alessandro Bismuto\*



6585

### Lewis acid-catalyzed diastereoselective carbofunctionalization of bicyclobutanes employing naphthols

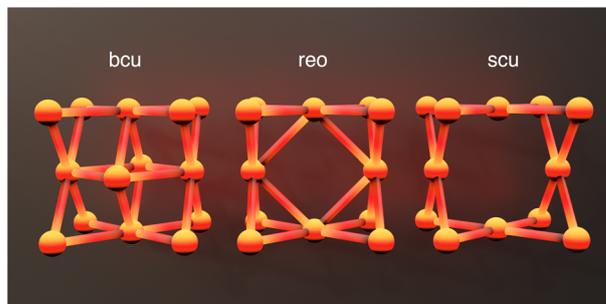
Avishek Guin, Subrata Bhattacharjee,  
Mahesh Singh Harariya and Akkattu T. Biju\*



6592

### Correlated missing linker defects increase thermal conductivity in metal–organic framework UiO-66

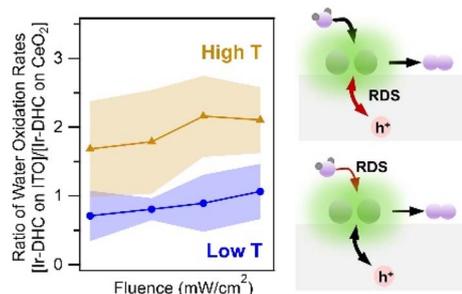
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6601

### Atomically dispersed Ir catalysts exhibit support-dependent water oxidation kinetics during photocatalysis

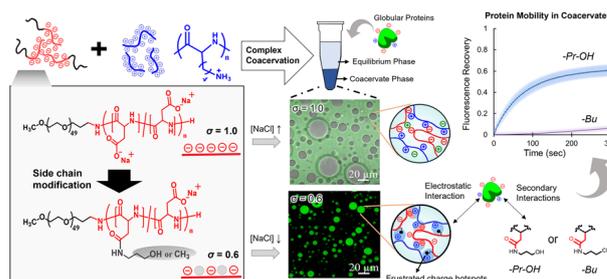
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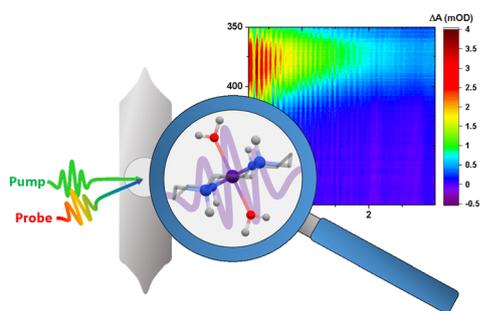
6608

### Dynamic frustrated charge hotspots created by charge density modulation sequester globular proteins into complex coacervates

Biplab K C, Teruki Nii, Takeshi Mori, Yoshiki Katayama  
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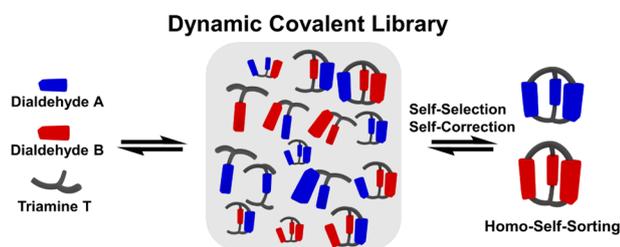
6621



### Equatorial restriction of the photoinduced Jahn–Teller switch in Mn(III)-cyclam complexes

Ryan Phelps, Alvaro Etcheverry-Berrios, Euan K. Brechin and J. Olof Johansson\*

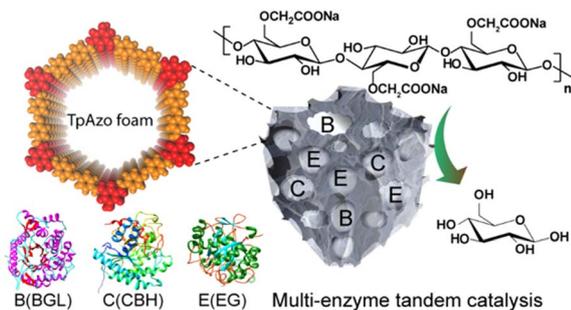
6631



### Dynamic covalent self-assembly and self-sorting processes in the formation of imine-based macrocycles and macrobicyclic cages

Zhaozheng Yang, Ferran Esteve, Cyril Antheaume and Jean-Marie Lehn\*

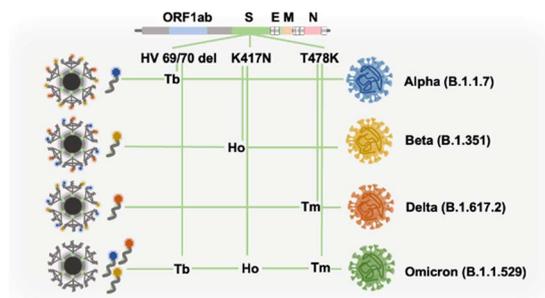
6643



### Hierarchical covalent organic framework-foam for multi-enzyme tandem catalysis

Satyadip Paul, Mani Gupta, Kaushik Dey, Ashok Kumar Mahato, Saikat Bag, Arun Torris, E. Bhoje Gowd, Hasnain Sajid, Matthew A. Addicoat, Supratim Datta\* and Rahul Banerjee\*

6654



### Isotope-encoded tetrahedral DNA for multiple SARS-CoV-2 variant diagnosis

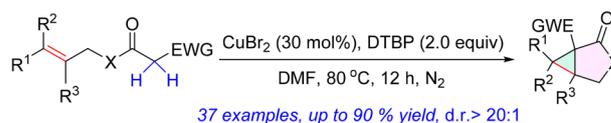
Ziyan Li, Jing Zhou, Chaoqun Wang, Rui Liu,\* Jianyu Hu and Yi Lv\*



6663

### Cu(II)-mediated direct intramolecular cyclopropanation of distal olefinic acetate: access to cyclopropane-fused $\gamma$ -lactones

Yulong Wang, Shenyu Shen, Chonglong He, Youkang Zhou, Keyuan Zhang, Bin Rao, Tian Han, Yaqiong Su, Xin-Hua Duan and Le Liu\*

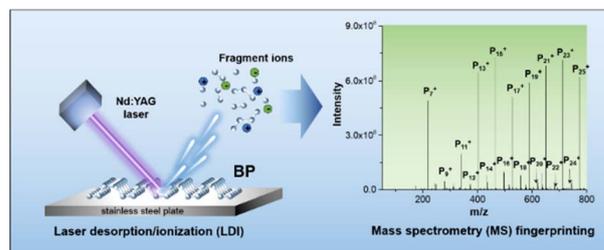


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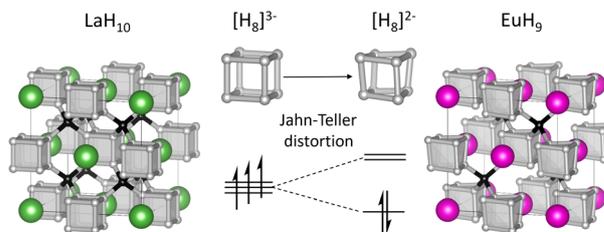
Xiu Huang, Yong Li, Guangbo Qu, Xue-Feng Yu, Dong Cao, Qian Liu\* and Guibin Jiang



6679

### Structures of LaH<sub>10</sub>, EuH<sub>9</sub>, and UH<sub>8</sub> superhydrides rationalized by electron counting and Jahn–Teller distortions in a covalent cluster model

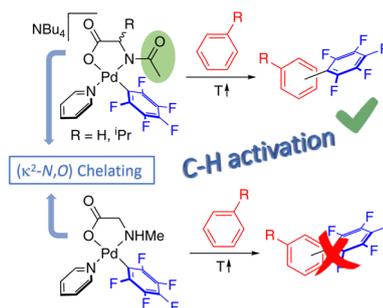
Harry W. T. Morgan\* and Anastassia N. Alexandrova



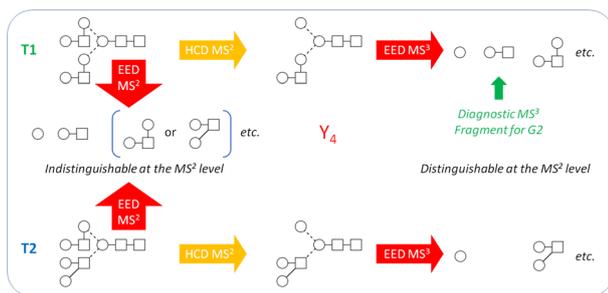
6688

### Palladium mono-*N*-protected amino acid complexes: experimental validation of the ligand cooperation model in C–H activation

Sara Fernández-Moyano, Vanesa Salamanca and Ana C. Albéniz\*



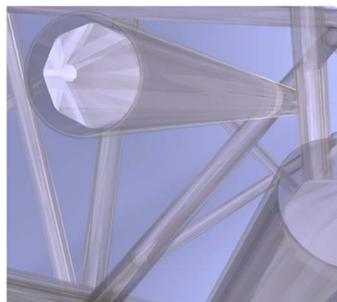
6695



### De novo glycan sequencing by electronic excitation dissociation MS<sup>2</sup>-guided MS<sup>3</sup> analysis on an Omnitrap-Orbitrap hybrid instrument

Juan Wei,<sup>\*</sup> Dimitris Papanastasiou, Mariangela Kosmopoulou, Athanasios Smyrnakis, Pengyu Hong, Nafisa Tursumamat, Joshua A. Klein, Chaoshuang Xia, Yang Tang, Joseph Zaia, Catherine E. Costello and Cheng Lin<sup>\*</sup>

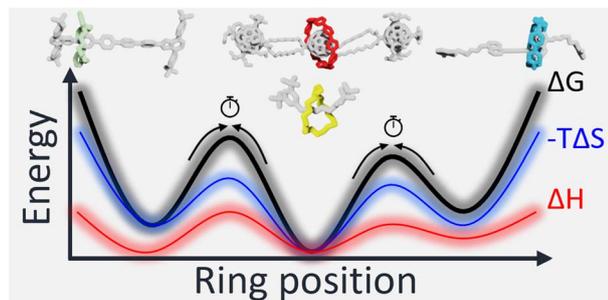
6705



### Electron transparent nanotubes reveal crystallization pathways in confinement

Johanna M. Galloway, Zabeada P. Aslam, Stephen R. Yeandel, Alexander Kulak, Martha A. Ilett, Yi-Yeoun Kim, Angela Bejarano-Villafuerte, Boaz Pokroy, Rik M. Drummond-Brydson, Colin L. Freeman, John H. Harding, Nikil Kapur and Fiona C. Meldrum<sup>\*</sup>

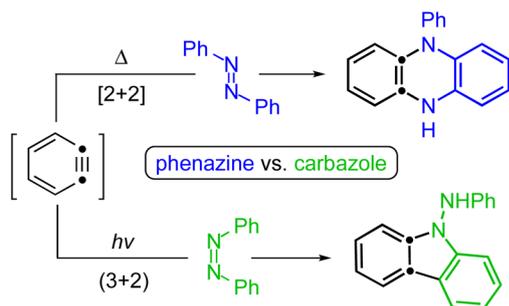
6716



### Into the dynamics of rotaxanes at atomistic resolution

Luigi Leanza, Claudio Perego, Luca Pesce, Matteo Salvalaglio, Max von Delius and Giovanni M. Pavan<sup>\*</sup>

6730



### The contrasting reactivity of *trans*- vs. *cis*-azobenzenes (ArN=NAr) with benzynes

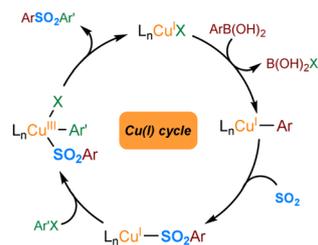
Dorian S. Sneddon and Thomas R. Hoyer<sup>\*</sup>



6738

### Experimental and computational insights into the mechanism of the copper(I)-catalysed sulfonylative Suzuki–Miyaura reaction

Callum G. J. Hall, Helen F. Sneddon,\* Peter Pogány, David M. Lindsay and William J. Kerr\*

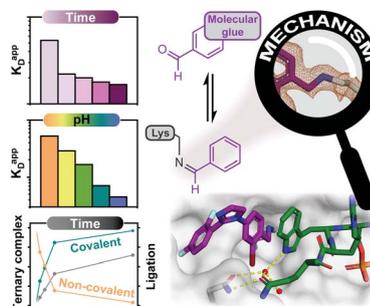


- Resting state Cu species ✓
- Transmetalation mechanism ✓
- Substrate electronic requirements ✓
- Ligand requirements ✓
- Study of side-reactions ✓
- Detailed computational studies ✓

6756

### Tracking the mechanism of covalent molecular glue stabilization using native mass spectrometry

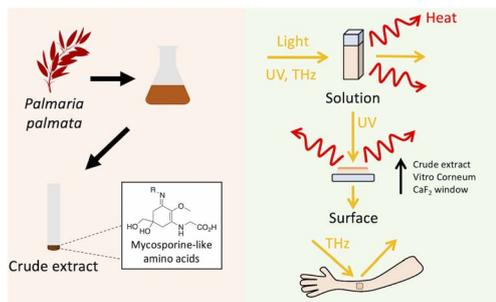
Carlo J. A. Verhoef, Danielle F. Kay, Lars van Dijk, Richard G. Doveston, Luc Brunsveld, Aneika C. Leney\* and Peter J. Cossar\*



6763

### Spectroscopic insight on impact of environment on natural photoprotectants

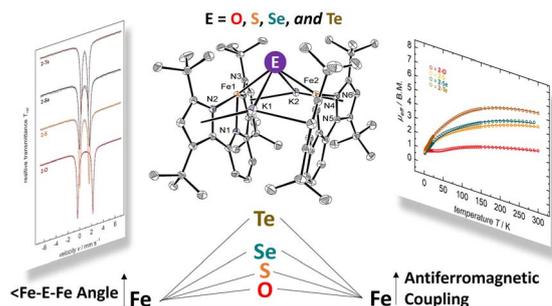
Abigail L. Whittock, Xuefei Ding, Xavier E. Ramirez Barker, Nazia Auckloo, Rebecca A. Sellers, Jack M. Woolley, Krishnan Tamareselvy, Marine Vincendet, Christophe Corre, Emma Pickwell-MacPherson and Vasilios G. Stavros\*



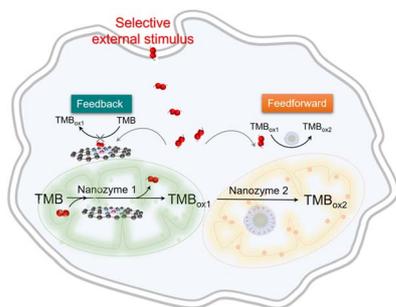
6770

### Isostructural bridging diferrous chalcogenide cores [Fe<sup>II</sup>(μ-E)Fe<sup>II</sup>] (E = O, S, Se, Te) with decreasing antiferromagnetic coupling down the chalcogenide series

Ethan Zars, Lisa Gravogl, Michael R. Gau, Patrick J. Carroll, Karsten Meyer\* and Daniel J. Mindiola\*



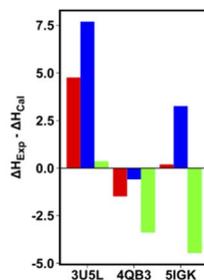
6780



### Cascade nanozymatic network mimicking cells with selective and linear perception of $H_2O_2$

Caixia Zhu, Zhixin Zhou, Xuejiao J. Gao, Yanhong Tao, Xuwen Cao, Yuan Xu, Yanfei Shen, Songqin Liu and Yuanjian Zhang\*

6792



### The role of loop dynamics in the prediction of ligand–protein binding enthalpy

Süleyman Selim Çınaroğlu and Philip C. Biggin\*

## CORRECTION

6806

### Correction: Radical ring-opening polymerization of sustainably-derived thionisochromanone

Emily A. Prebihalo, Anna M. Luke, Yernaidu Reddi, Christopher J. LaSalle, Vijay M. Shah, Christopher J. Cramer and Theresa M. Reineke\*

