

# Dalton Transactions

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## IN THIS ISSUE

ISSN 1477-9226 CODEN DTARAF 52(38) 13439–13816 (2023)



### Cover

See Natalia Busto,  
José Ruiz *et al.*,  
pp. 13482–13486.

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2023, **52**, 13482.



### Inside cover

See Rory Waterman *et al.*,  
pp. 13497–13506.

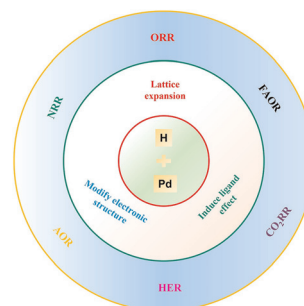
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**52**, 13497.

## PERSPECTIVE

13452

### Recent advances of H-intercalated Pd-based nanocatalysts for electrocatalytic reactions

Le Li,\* Hongliang Xu, Qianyi Zhu, Xiangjun Meng,  
Jixing Xu and Meijun Han

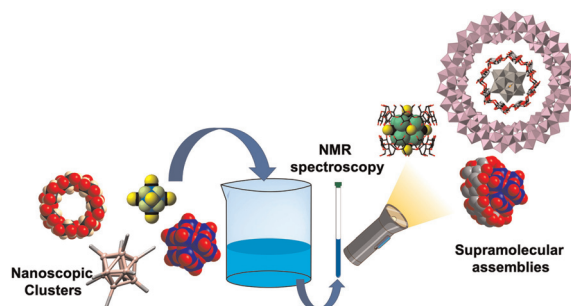


## FRONTIER

13467

### NMR spectroscopy to study cyclodextrin-based host–guest assemblies with polynuclear clusters

Mohamed Haouas,\* Clément Falaise, Nathalie Leclerc,  
Sébastien Floquet and Emmanuel Cadot



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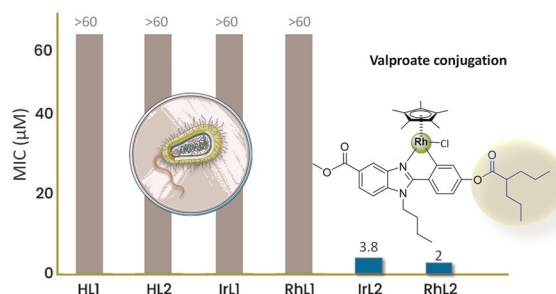


## COMMUNICATIONS

13482

### Novel valproate half-sandwich rhodium and iridium conjugates to fight against multidrug-resistant Gram-positive bacteria

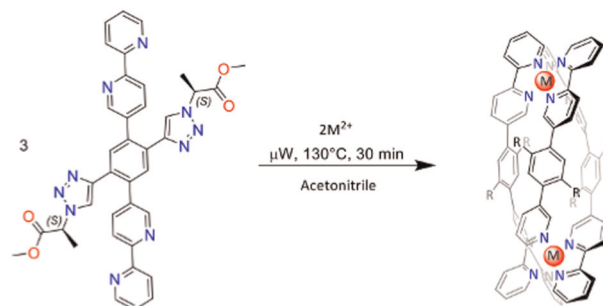
Alicia Marco, Gloria Viguera, Natalia Busto,\*  
Natalia Cutillas, Delia Bautista and José Ruiz\*



13487

### Remote stereocentres do not disrupt the stereochemical coupling in homochiral [M<sub>2</sub>L<sub>3</sub>] helicates and [M<sub>4</sub>L<sub>6</sub>] tetrahedra

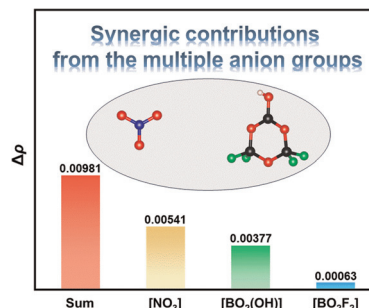
Rashid G. Siddique, Jacob J. Whittaker,  
Hydar A. AL-Fayaad, John C. McMurtrie and  
Jack K. Clegg\*



13492

### K<sub>5</sub>[B<sub>3</sub>O<sub>3</sub>F<sub>4</sub>(OH)]<sub>2</sub>(NO<sub>3</sub>): the first hydroxyfluorooxoborate-nitrate with a short ultraviolet cutoff edge and large birefringence

Luyong Zhang, Shibin Wang, Fangfang Zhang,\*  
Zhihua Yang and Xueling Hou\*



## PAPERS

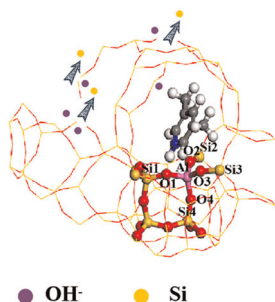
13497

### Commercially available organolithium compounds as effective, simple precatalysts for silicon–nitrogen heterodehydrocoupling

Matthew B. Reuter, Claire E. Bushey, Diego R. Javier-Jiménez and Rory Waterman\*



13507

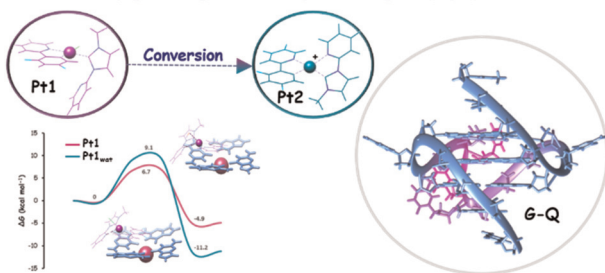


### A surface modification strategy to prepare hierarchical Beta molecular sieves for glucose dehydration

Zhongxu Wang, Peng Lu, Shuo Li, Yuling Shan, Lu Li, Xiaosheng Wang, Shuwei Liu, Lei Han, Shiwei Liu and Yuxiang Liu\*

13517

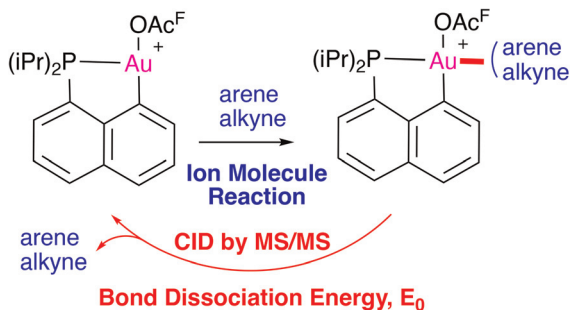
### KEY STEP FOR ADAPTIVE BINDING



### G-quadruplex DNA selective targeting for anticancer therapy: a computational study of a novel Pt<sup>II</sup> monofunctional complex activated by adaptive binding

Daniele Belletto, Fortuna Ponte, Nico Sanna, Stefano Scoditti\* and Emilia Sicilia

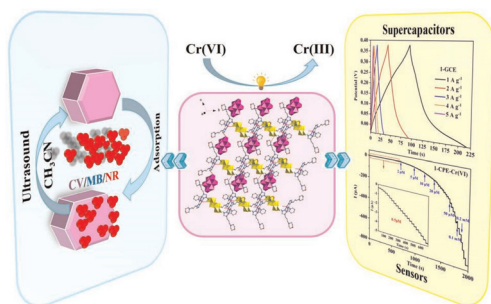
13528



### Energetics of key Au(III)-substrate adducts relevant to catalytic hydroarylation of alkynes

Matthieu Regnacq, Denis Lesage, Marte S. M. Holmsen, Karinne Miqueu, Didier Bourissou\* and Yves Gimbert\*

13537



### Four octamolybdate compounds with properties of organic dye adsorption and photocatalytic reduction of Cr(VI)

Xinxin Hao, Jun Ying,\* Yanping Zhang, Aixiang Tian, Mengle Yang and Xiuli Wang\*

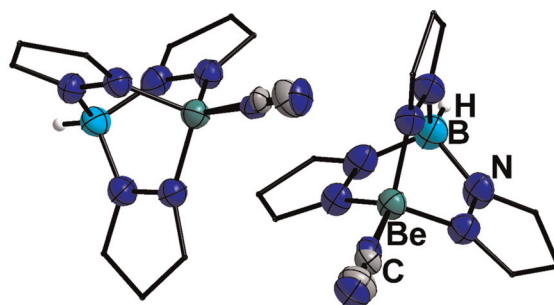


## PAPERS

13547

## Gauging ambiphilicity of pseudo-halides via beryllium-trispyrazolylborato compounds

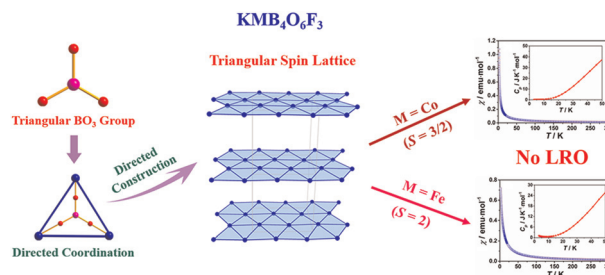
Chantsalmaa Berthold, Matthias Müller, Sergei I. Ivlev, Diego M. Andrada\* and Magnus R. Buchner\*



13555

KMB<sub>4</sub>O<sub>6</sub>F<sub>3</sub> (M = Co, Fe): two-dimensional magnetic fluorooxoborates with triangular lattices directed by triangular BO<sub>3</sub> units

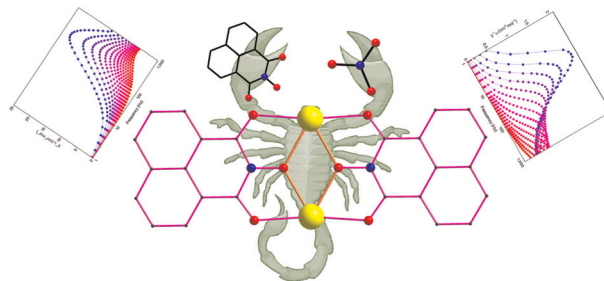
Yanhong Wang, Shuang Li, Yaling Dou, Hui Li and Hongcheng Lu\*



13565

Peripheral site modification in a family of dinuclear [Dy<sub>2</sub>(hynad)<sub>2-6</sub>(NO<sub>3</sub>)<sub>0-6</sub>(sol)<sub>0-2</sub>]<sup>0/2-</sup> single-molecule magnets bearing a {Dy<sub>2</sub>(μ-OR)<sub>2</sub>}<sup>4+</sup> diamond-shaped core and exhibiting dissimilar magnetic dynamics

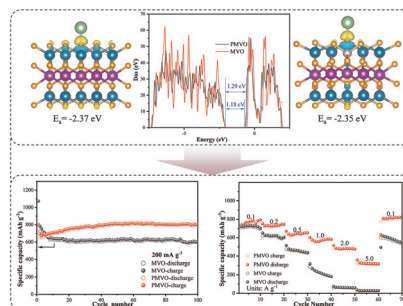
Alexandros S. Armenis, Dimitris I. Alexandropoulos, Anne Worrell, Luís Cunha-Silva, Kim R. Dunbar and Theodoros C. Stamatatos\*



13578

P-doping boosting electronic properties and ionic kinetics of MnV<sub>2</sub>O<sub>6</sub> for high-performance lithium-ion batteries

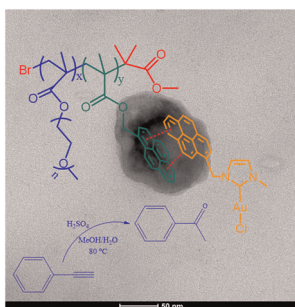
Zheng Wu, Lang Zhang,\* Sui Peng, Jianhong Yi and Dong Fang\*





## PAPERS

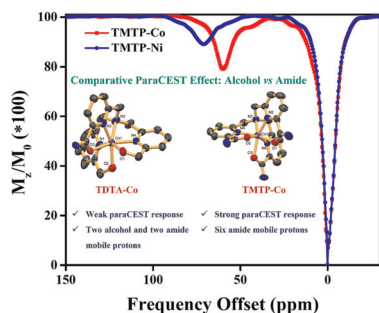
13587



### A catalytic system based on $\pi$ – $\pi$ stacking interactions between a pyrene substituted gold NHC catalyst and amphiphilic polymers for alkyne hydration reactions

Bengi Özgün Öztürk,\* Hilal Acar, Ayşegül Balci, Suzan Cihnioğlu, Mina Aşkun and Solmaz Karabulut Şehitoğlu

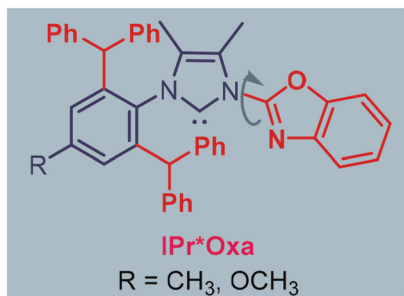
13594



### Comparative paraCEST effect of amide and hydroxy groups in divalent cobalt and nickel complexes of tripyridine-based ligands

Suvam Kumar Panda, Julia Torres, Carlos Kremer and Akhilesh Kumar Singh\*

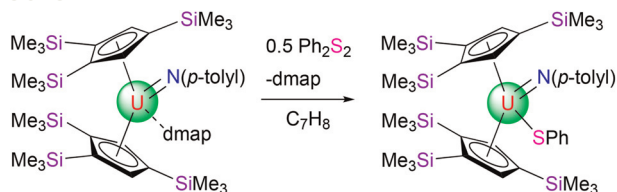
13608



### IPr\*Oxa – a new class of sterically-hindered, wingtip-flexible N,C-chelating oxazole-donor N-heterocyclic carbene ligands

Pamela Podchorodecka, Błażej Dziuk, Roman Szostak, Michał Szostak\* and Elwira Bisz\*

13618



### Reactivity of a Lewis base-supported uranium terminal imido metallocene towards small molecules

Tongyu Li, Dongwei Wang, Yi Heng, Guohua Hou, Guofu Zi\* and Marc D. Walter\*

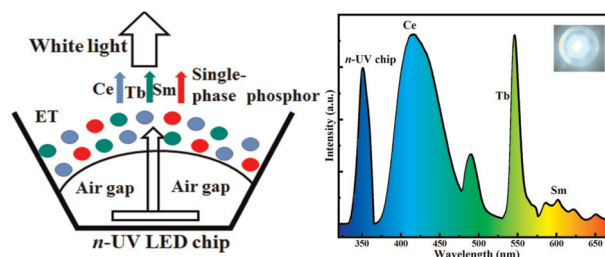


## PAPERS

13631

### Structure and luminescence properties of single-component melilite $\text{Sr}_2\text{MgSi}_2\text{O}_7\text{:Ce/Tb/Sm}$ for $n$ -UV wLEDs

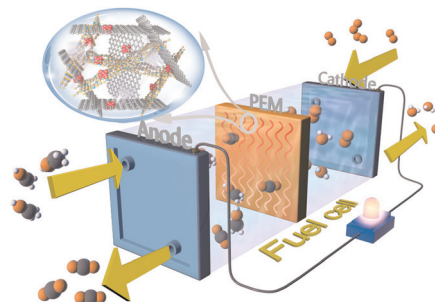
X. Z. Zheng, L. Yue, C. Wang, P. J. Xia, M. Xu and W. B. Dai\*



13644

### Immobilizing ultrasmall Pt nanocrystals on 3D interweaving BCN nanosheet-graphene networks enables efficient methanol oxidation reaction

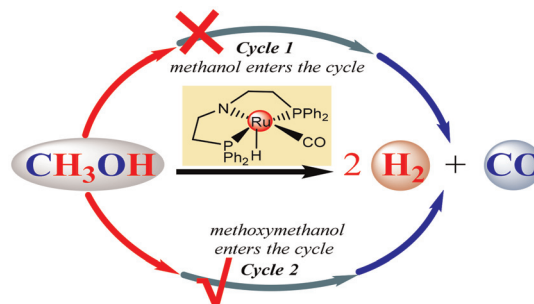
Binfeng Shen, Yujie Wei, Pengyun Sun, Haiyan He, Guobing Ying\* and Huajie Huang\*



13653

### Production of carbon monoxide and hydrogen from methanol using a ruthenium pincer complex: a DFT study

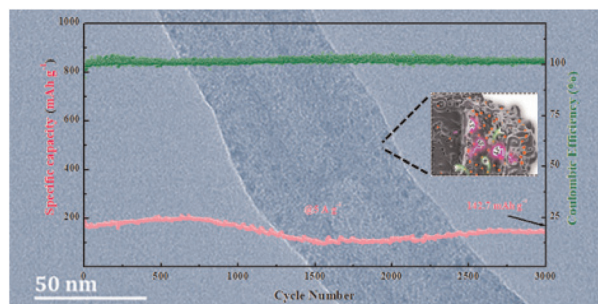
Lina Geng, Mingchao Zhang, Zhiqiang Zhang and Yan Li\*



13662

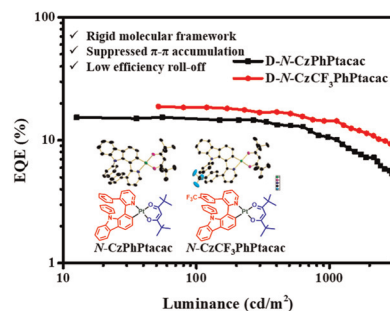
### Hybrid nanotubes constructed by confining $\text{Ti}_{0.95}\text{Nb}_{0.95}\text{O}_4$ quantum dots in porous bamboo-like CNTs: superior anode materials for boosting lithium storage

Yakun Tang, Wenjie Ma, Yue Zhang, Sen Dong, Chensong Yang and Lang Liu\*



## PAPERS

13670



### Design of carbazole-based platinum complexes with steric hindrance for efficient organic light-emitting diodes

Xu-Feng Luo, Sheng Ning, Hang He, Hao Tang, Liang-Jun Shen, Yi-Rui Shen, Hua-Bo Han, Xunwen Xiao\* and You-Xuan Zheng\*

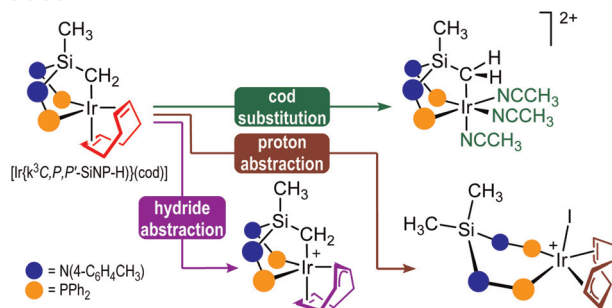
13677



### Polymeric copper(I)–NHC complexes with bulky bidentate (N<sup>^</sup>C) ligands: synthesis and solid-state luminescence

Arruri Sathyanarayana, François Réveret, Laurent Jouffret, Damien Boyer, Geneviève Chadeyron and Federico Cisnetti\*

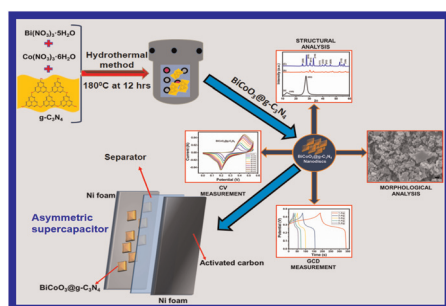
13689



### Reactivity of Ir(III)-aminophosphane platforms towards oxidants

Marco Palmese, Jesús J. Pérez-Torrente and Vincenzo Passarelli\*

13704



### Electrochemical analysis of asymmetric supercapacitors based on BiCoO<sub>3</sub>@g-C<sub>3</sub>N<sub>4</sub> nanocomposites

Pandiaraja Varatharajan, I. B. Shameem Banu,\* Mohamad Hafiz Mamat\* and Nagamalai Vasimalai\*





## PAPERS

13716

**Optimization of performance and sensitivity: preparation of two Ag(I)-based ECPs by using isomeric ligands**

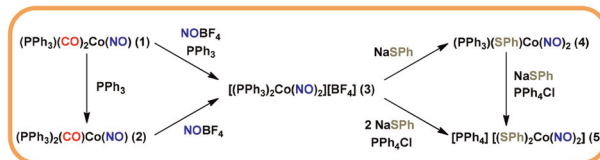
Chao Zhang, Ting-Wei Wang, Zu-Jia Lu, Zhen-Xin Yi, Bao-Long Kuang, Shu Bu, Zhi-Ming Xie, Yan Li, Kun Wang and Jian-Guo Zhang\*



13724

**Phosphine/thiolate-containing dinitrosyl cobalt complexes (DNCCs): synthesis, characterization, interconversion, X-ray diffraction identification and NO release**

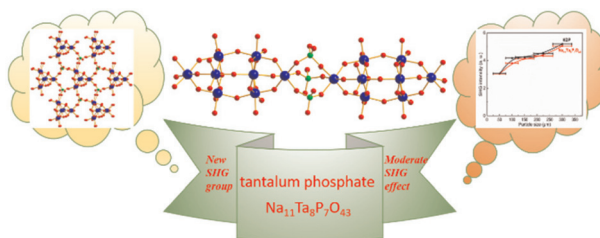
Wen-Chieh Chang, Wan-Tin Du, Yi-Xuan Lin, Ruei-Lin Jhang and Chung-Hung Hsieh\*



13732

**Na<sub>11</sub>Ta<sub>8</sub>P<sub>7</sub>O<sub>43</sub>: (Ta<sub>8</sub>O<sub>33</sub>) bi-capped triangular prisms connected by PO<sub>4</sub> groups resulting in a phase-matched second harmonic response**

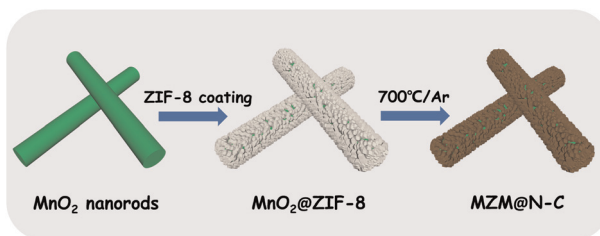
Ziyan Lv and Rukang Li\*



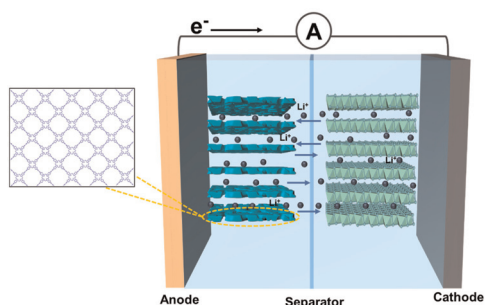
13737

**Fabrication of N-doped carbon-coated MnO/ZnMn<sub>2</sub>O<sub>4</sub> cathode materials for high-capacity aqueous zinc-ion batteries**

Tianhao Huang, Mingren Cheng, Yuechao Yuan, Lingjun Kong,\* Ze Chang\* and Xian-He Bu



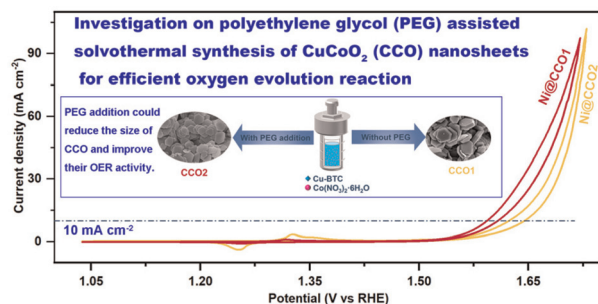
13745



### A phthalocyanine-based porous organic polymer for a lithium-ion battery anode

Lihua Guo, Chunhua Li, Yougui Zhou, Xinmeng Hao, Huipeng Li, Hong Shang\* and Bing Sun\*

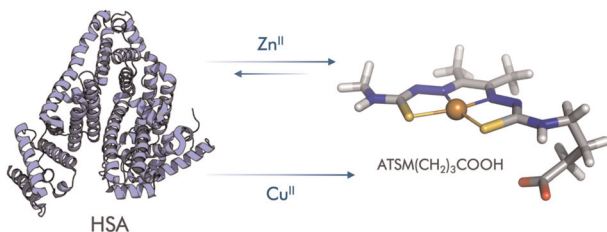
13750



### Investigation of polyethylene glycol (PEG) assisted solvothermal synthesis of $\text{CuCoO}_2$ nanosheets for efficient oxygen evolution reaction

Shiyu Ma, Jilin Bai,\* Li Sun, Lihong Zhao, Hao Tan, Lifeng Liu, Zhigang Peng, Xiujian Zhao and Dehua Xiong\*

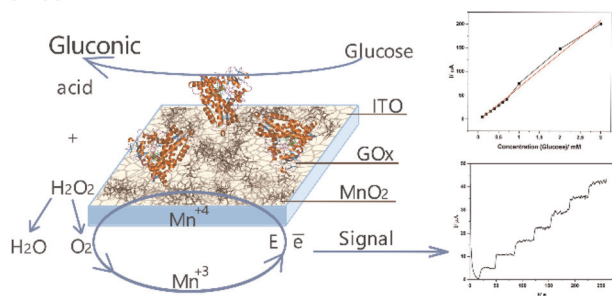
13758



### Impact of human serum albumin on $\text{Cu}^{\text{II}}$ and $\text{Zn}^{\text{II}}$ complexation by ATSM (diacetyl-bis( $N^4$ -methylthiosemicarbazone)) and a water soluble analogue

Álvaro Martínez-Camarena,\* Angélique Sour and Peter Faller

13769



### Formation of $\text{MnO}_2$ -coated ITO electrodes with high catalytic activity for enzymatic glucose detection

Veronika Poltavets,\* Mirosław Krawczyk, Ganna Maslak, Olga Abramova and Martin Jönsson-Niedziółka\*

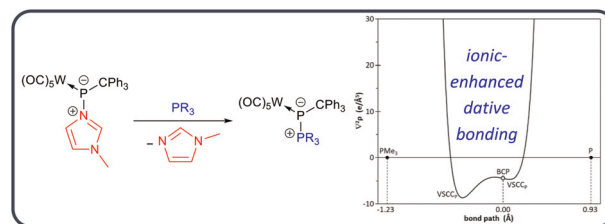


## PAPERS

13781

### A novel access to phosphanylidene–phosphorane complexes via P-donor substitution and a detailed bonding analysis

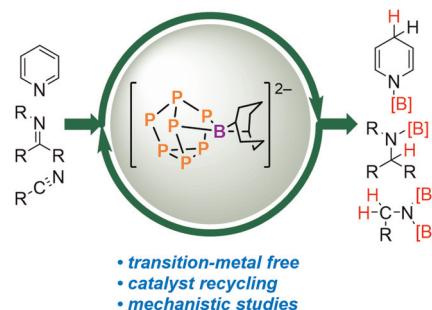
David Biskup, Gregor Schnakenburg, René T. Boéré, Arturo Espinosa Ferao\* and Rainer Streubel\*



13787

### A robust Zintl cluster for the catalytic reduction of pyridines, imines and nitriles

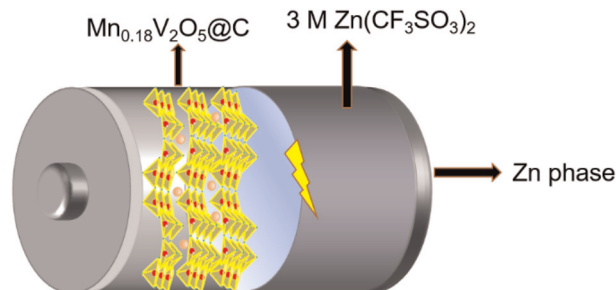
Bono van IJzendoorn, Jessica B. M. Whittingham, George F. S. Whitehead, Nikolas Kaltsoyannis\* and Meera Mehta\*



13797

### Layered porous $Mn_{0.18}V_2O_5@C$ with manganese and carbon provided by a metal–organic framework precursor as a cathode material for aqueous zinc-ion batteries

Tiantian Chen, Xixun Shen,\* Bingbing Dai and Qunjie Xu\*



13808

### A dual-module co-regulated stable pressure sensor for human activity monitoring

Xiang Li, Wanzhihan Zhang, Lanzhen Nie, Xiaohui Zhao,\* Xiaoting Li\* and Wenming Zhang\*

