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IN THIS ISSUE

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See Peter C. Junk *et al.*,
pp. 3563–3566.

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See Bhabatosh Banik,
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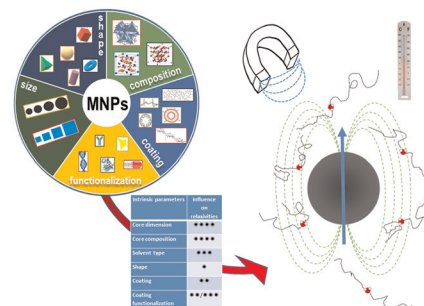
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2023, **52**, 3575.

PERSPECTIVE

3551

The effect of size, shape, coating and functionalization on nuclear relaxation properties in iron oxide core–shell nanoparticles: a brief review of the situation

Paolo Arosio,* Francesco Orsini, Francesca Brero, Manuel Mariani, Claudia Innocenti, Claudio Sangregorio and Alessandro Lascialfari

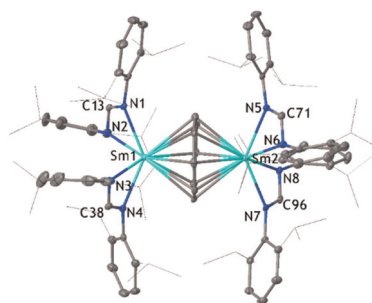


COMMUNICATIONS

3563

Formation of a cyclooctatetraenylsamarium(III) inverse sandwich that ring-opens tetrahydrofuran

Ramees Peedika Paramban, Zhifang Guo, Glen B. Deacon and Peter C. Junk*



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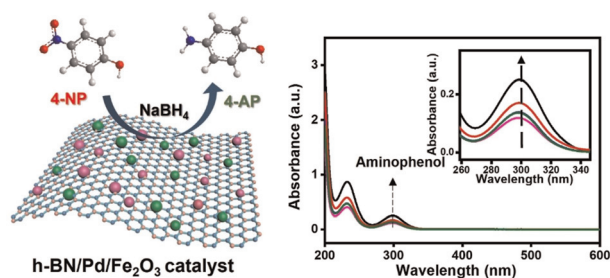


COMMUNICATIONS

3567

Magnetic boron nitride adorned with Pd nanoparticles: an efficient catalyst for the reduction of nitroarenes in aqueous media

Jinghan Wang, Woo Seok Cheon, Ju-Yong Lee, Wenqian Yan, Sunghoon Jung, Ho Won Jang* and Mohammadreza Shokouhimehr*

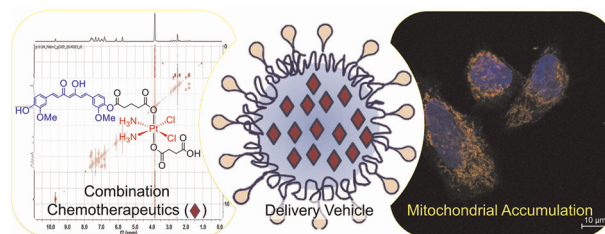


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3575

Platin-C containing nanoparticles: a recipe for the delivery of curcumin–cisplatin combination chemotherapeutics to mitochondria

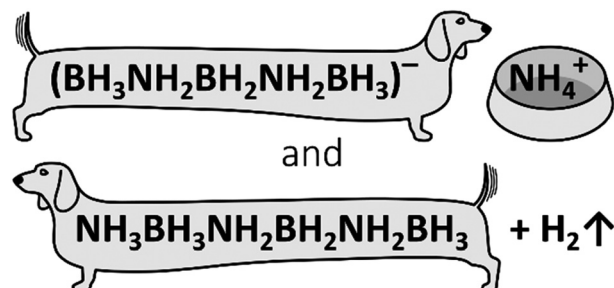
Bhabatosh Banik,* Akash Ashokan, Joshua H. Choi, Bapurao Surnar and Shanta Dhar*



3586

Towards hydrogen-rich ionic $(\text{NH}_4)(\text{BH}_3\text{NH}_2\text{BH}_2\text{NH}_2\text{BH}_3)$ and related molecular $\text{NH}_3\text{BH}_2\text{NH}_2\text{BH}_2\text{NH}_2\text{BH}_3$

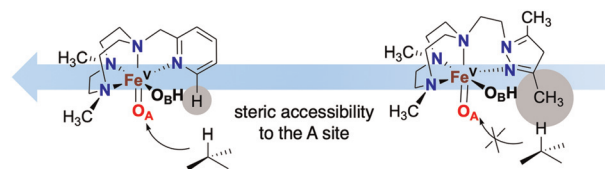
Rafał Owarzany,* Tomasz Jaroń, Krzysztof Kazimierzuk, Przemysław J. Malinowski, Wojciech Grochala and Karol J. Fijałkowski*



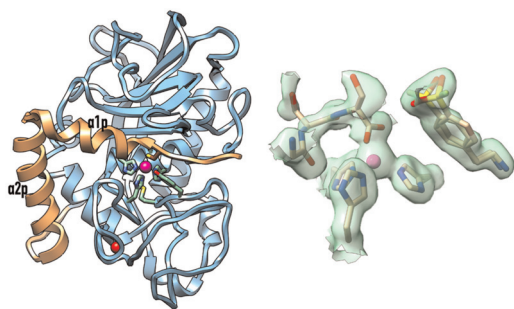
3596

An investigation of steric influence on the reactivity of $\text{Fe}^{\text{V}}(\text{O})(\text{OH})$ tautomers in stereospecific C–H hydroxylation

Mainak Mitra, Alexander Brinkmeier, Yong Li, Margarida Borrell, Arnau Call, Julio Lloret Fillol, Michael G. Richmond, Miquel Costas* and Ebbe Nordlander*



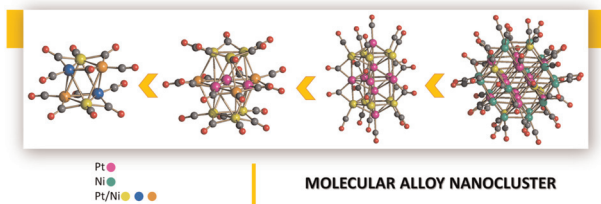
3610



Structural insights into latency of the metallopeptidase ulilysin (lysarginase) and its unexpected inhibition by a sulfonamide-fluoride inhibitor of serine peptidases

Arturo Rodríguez-Banqueri, Marina Moliner-Culubret, Soraia R. Mendes, Tibisay Guevara, Ulrich Eckhard* and F. Xavier Gomis-Rüth*

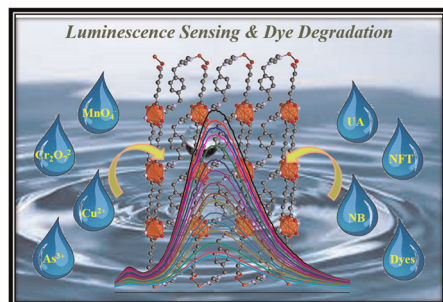
3623



From M_6 to M_{12} , M_{19} and M_{38} molecular alloy Pt–Ni carbonyl nanoclusters: selective growth of atomically precise heterometallic nanoclusters

Cristiana Cesari, Beatrice Berti, Marco Bortoluzzi, Cristina Femoni, Tiziana Funaioli, Federico Maria Vivaldi, Maria Carmela Iapalucci and Stefano Zacchini*

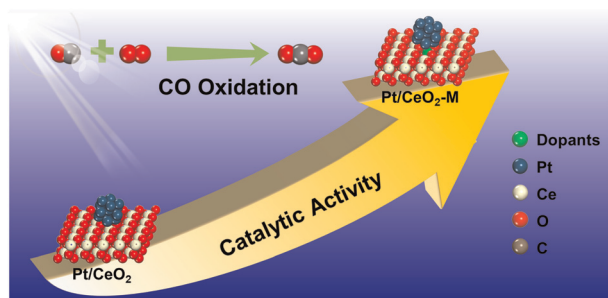
3643



Ratiometric luminescent sensing of a biomarker for sugar consumption in an aqueous medium using a Cu(II) coordination polymer

Somnath, Musheer Ahmad and Kafeel Ahmad Siddiqui*

3661



Fabrication of supported Pt/CeO₂ nanocatalysts doped with different elements for CO oxidation: theoretical and experimental studies

Xingwen Cha, Xueying Wang, Mingzhen Huang, Dongren Cai, Kang Sun, Jianchun Jiang, Shu-feng Zhou* and Guowu Zhan*

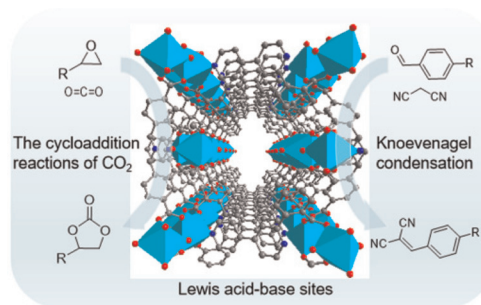


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3671

Thermally activated bipyridyl-based Mn-MOFs with Lewis acid–base bifunctional sites for highly efficient catalytic cycloaddition of CO₂ with epoxides and Knoevenagel condensation reactions

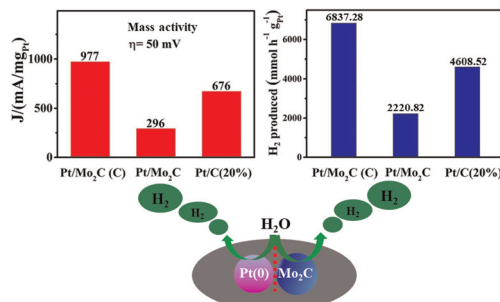
Zhen Xu, Ya-Yu Zhao, Le Chen, Cai-Yong Zhu, Peng Li, Wei Gao,* Ji-Yang Li and Xiu-Mei Zhang*



3682

Mo₂C promoted electrocatalysis of the Pt/Mo₂C (C) heterostructure for a superior hydrogen evolution reaction

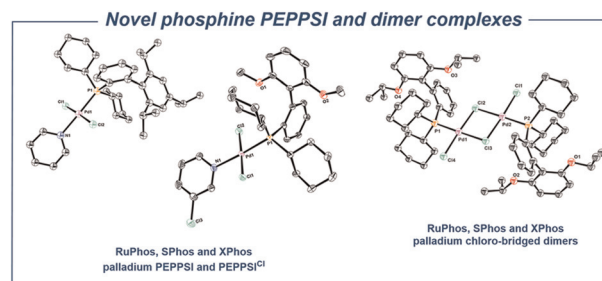
Yixiang Ye, Yuande Shi, Jiannan Cai, Zhisheng Xiao, Zhongshui Li* and Shen Lin*



3690

Synthesis, characterization, and reactivity of [Pd(phosphine)(py)Cl₂] (PEPPSI) and [Pd(phosphine)Cl₂]₂ complexes

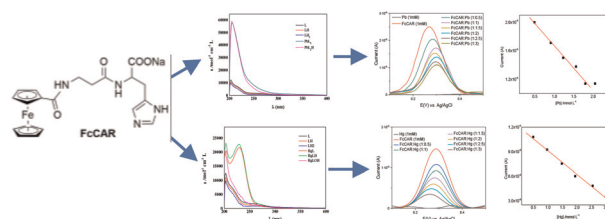
Vladislav A. Voloshkin, Yaxu Liu, Marek Beliš, Min Peng, Kristof Van Hecke, Catherine S. J. Cazin* and Steven P. Nolan*



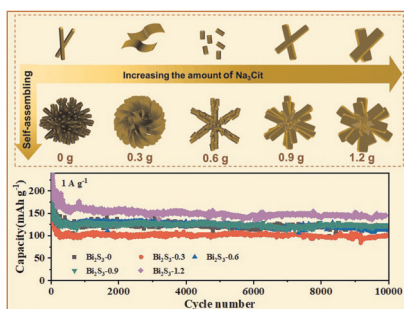
3699

Thermodynamic and voltammetric study on carnosine and ferrocenyl-carnosine

Chiara Abate, Anna Piperno, Alex Frago, Ottavia Giuffrè, Antonino Mazzaglia, Angela Scala and Claudia Foti*



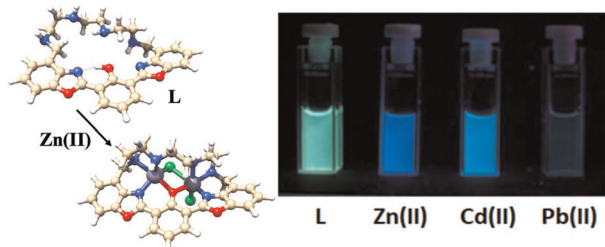
3709



Trisodium citrate as a modulation additive to increase the cycling capability of a Bi_2S_3 cathode in a zinc-ion battery

Lei Gou,* Lin Zhu, Wen-Yan Wang, Kai Liang, Xiao-Yong Fan* and Dong-Lin Li

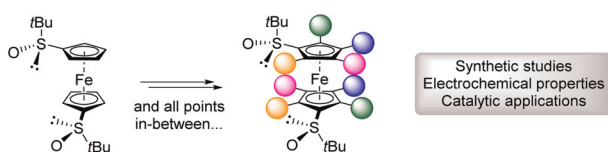
3716



A novel 2,6-bis(benzoxazolyl)phenol macrocyclic chemosensor with enhanced fluorophore properties by photoinduced intramolecular proton transfer

Daniele Paderni, Giampaolo Barone,* Luca Giorgi,* Mauro Formica, Eleonora Macedi and Vieri Fusi

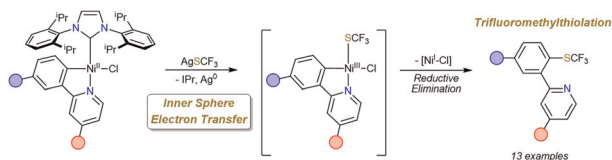
3725



From ferrocene to decasubstituted enantiopure ferrocene-1,1'-disulfoxide derivatives

Min Wen, William Erb,* Florence Mongin, Jean-Pierre Hurvois, Yury S. Halauko,* Oleg A. Ivashkevich, Vadim E. Matulis, Marielle Blot and Thierry Roisnel

3738



Investigating the mechanism of Ni-mediated trifluoromethylthiolation of aryl halides using AgSCF_3

Weiling Chiu, Ben E. Nadeau, Brian O. Patrick and Jennifer A. Love

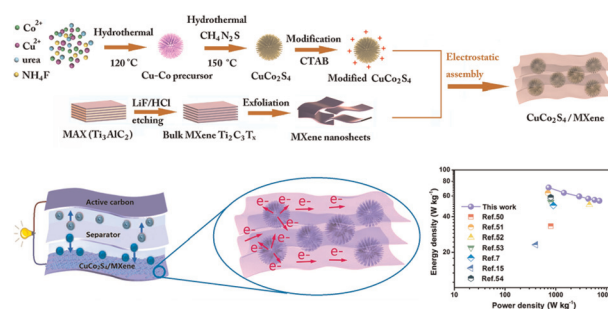


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3746

Construction of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene wrapped urchin-like CuCo_2S_4 microspheres for high-performance asymmetric supercapacitors

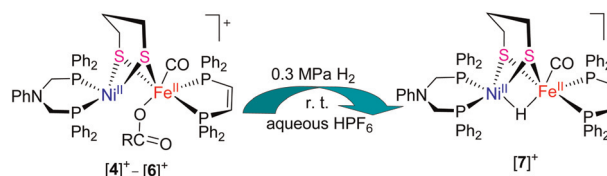
Xiaobo Chen,* Huiran Ge, Wen Yang and Peizhi Yang*



3755

Functionalized nickel(II)–iron(II) dithiolates as biomimetic models of [NiFe]-H₂ases

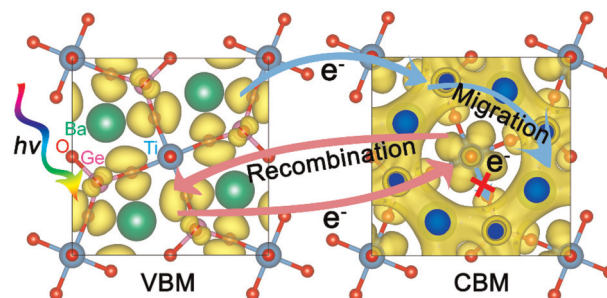
Li-Cheng Song,* Yin-Peng Wang, Yi-Xiong Dong and Xi-Yue Yang



3769

Deciphering the photocatalytic hydrogen generation process of Fresnoite $\text{Ba}_2\text{TiGe}_2\text{O}_8$ by electronic structure and bond analyses

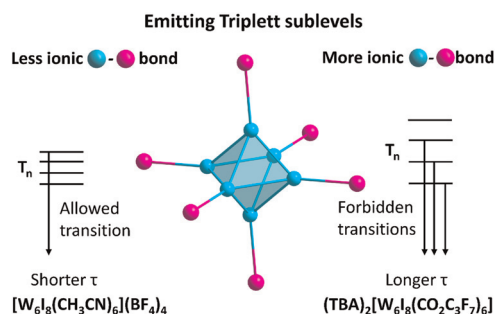
Guangxiang Lu and Tao Yang*



3777

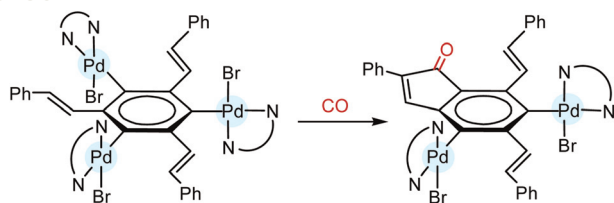
Preparation, photoluminescence and excited state properties of the homoleptic cluster cation $[(\text{W}_6\text{I}_8)(\text{CH}_3\text{CN})_6]^{4+}$

Florian Pachel, Philipp Frech, Markus Ströbele, David Enseling, Carl P. Romao, Thomas Jüstel, Marcus Scheele and Hans-Jürgen Meyer*



PAPERS

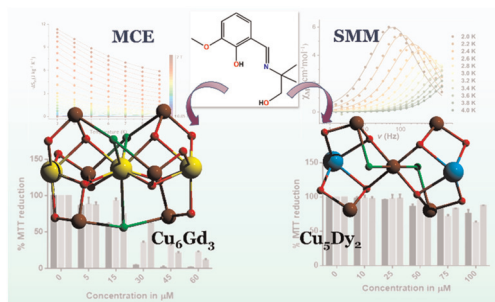
3786



Synthesis of mono-, di- and tripalladated 1,3,5-benzenetriptyryl complexes. CO insertion to give a dipalladated indenone

Rashmi V. Shenoy, Peter G. Jones, José Vicente and Eloisa Martínez-Viviente*

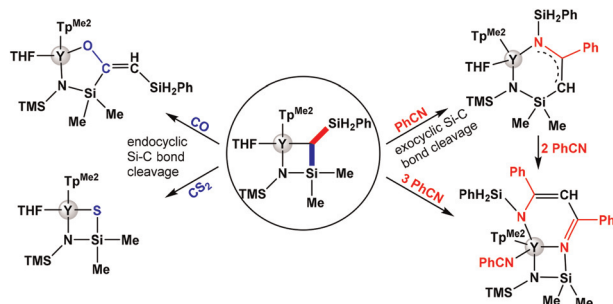
3795



Synthesis and characterization of two self-assembled $[\text{Cu}_6\text{Gd}_3]$ and $[\text{Cu}_5\text{Dy}_2]$ complexes exhibiting the magnetocaloric effect, slow relaxation of magnetization, and anticancer activity

Avik Bhanja, Sangeeta Roy Chaudhuri, Angelos B. Canaj, Shachi Pranjal Vyas, Fabrizio Ortu, Lucy Smythe, Mark Murrie, Ritobrata Goswami and Debashis Ray*

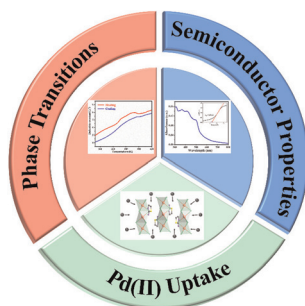
3807



Selective Si–C(sp^3) bond cleavage of a silyl-bridged amido alkyl ligand in an yttrium complex

Jiamin Cai, Jie Zhang* and Xigeng Zhou*

3815



Effect of Pd(II) uptake on high-temperature phase transitions in a hybrid organic–inorganic perovskite semiconductor

Yan Xu, Ke Xu, Lei He, Jie Mu, Ti-Jian Yin, Jin-Tao Men and Qiong Ye*

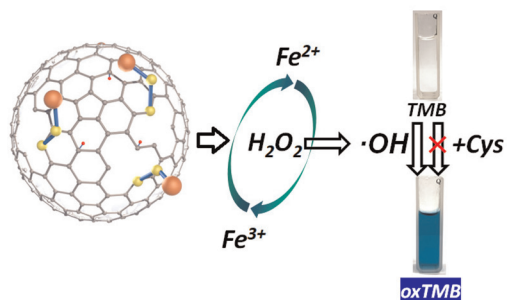


PAPERS

3821

Peroxidase-like activity of hollow sphere-like FeS₂/SC boosted by synergistic action of defects and S–C bonding

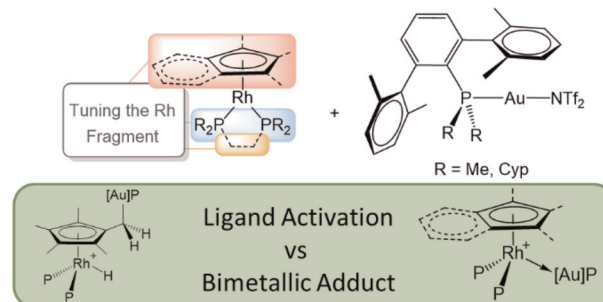
Hao Tan and Zhaodong Nan*



3835

Polarized Au(i)/Rh(i) bimetallic pairs cooperatively trigger ligand non-innocence and bond activation

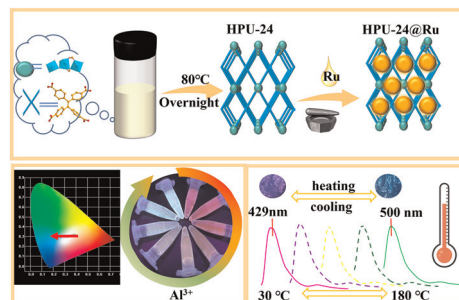
Macarena G. Alférez, Juan J. Moreno, Celia Maya and Jesús Campos*



3846

A dual-function [Ru(bpy)₃]²⁺ encapsulated metal organic framework for ratiometric Al³⁺ detection and anticounterfeiting application

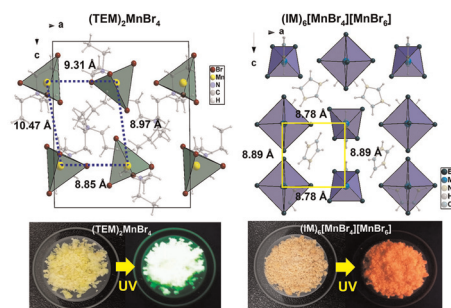
Huijun Li,* Yanan Wang, Fengjiao Jiang, Manman Li and Zhouqing Xu*



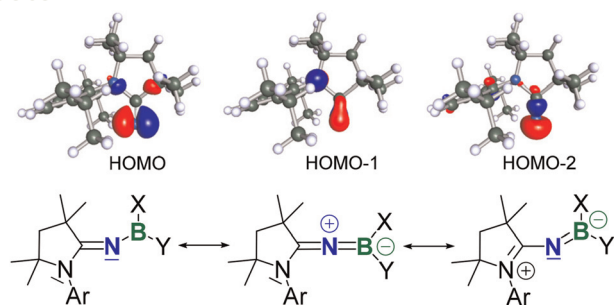
3855

Long-lived spin-triplet excitons in manganese complexes for room-temperature phosphorescence

Mi-Hee Jung



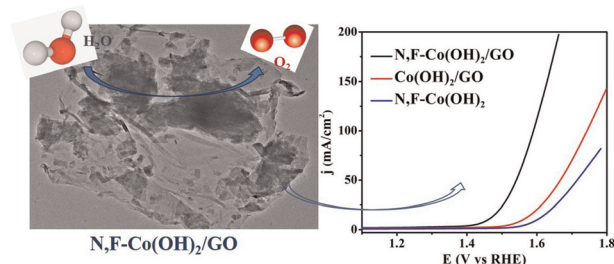
3869



Cyclic alkyl(amino)iminates (CAAls) as strong $2\sigma,4\pi$ -electron donor ligands for the stabilisation of boranes and diboranes(4): a synthetic and computational study

Silvia Huynh, Merle Arrowsmith, Lukas Meier, Maximilian Dietz, Marcel Härterich, Maximilian Michel, Annalena Gärtner and Holger Braunschweig*

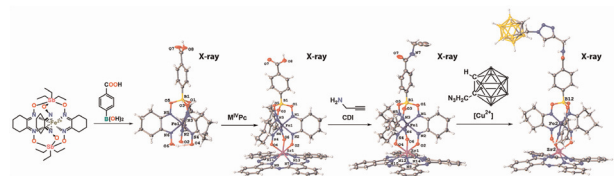
3877



Enhancing the oxygen evolution reaction of cobalt hydroxide by fabricating nanocomposites with fluorine-doped graphene oxide

Pandi Muthukumar, Periyappan Nantheeswaran, Mariappan Mariappan, Mehboobali Pannipara, Abdullah G. Al-Sehemi and Savarimuthu Philip Anthony*

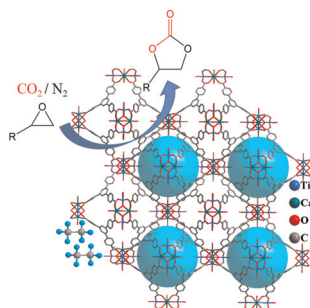
3884



Multistep synthesis and X-ray structures of carboxyl-terminated hybrid iron(II) phthalocyaninatoclathrochelates and their postsynthetic transformation into polytopic carboranyl-containing derivatives

Alexander S. Chuprin, Alexander A. Pavlov, Anna V. Vologzhanina, Pavel V. Dorovatovskii, Anton V. Makarenkov, Valentina A. Ol'shevskaya, Semyon V. Dudkin and Yan Z. Voloshin*

3896



A robust and porous titanium metal–organic framework for gas adsorption, CO₂ capture and conversion

Xuze Pan, Xuezheng Si, Xiaoying Zhang, Qingxia Yao,* Yunwu Li, Wenzeng Duan, Yi Qiu,* Jie Su and Xianqiang Huang*

