

IN THIS ISSUE

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Cover

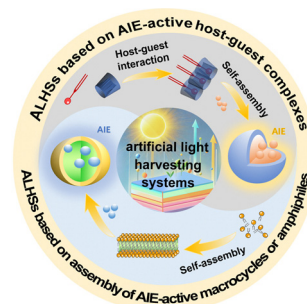
See Xiu Huang *et al.*,
pp. 6893-6896.
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Chem. Commun.,
2025, 61, 6893.

FEATURE ARTICLES

6851

Supramolecular artificial light-harvesting systems incorporating aggregation-induced emissive components: from fabrication to efficient energy conversion

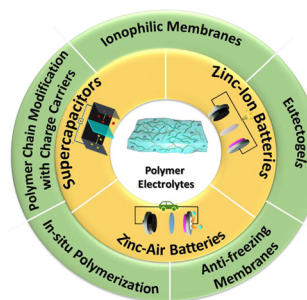
Rongbo Zhang, Yutong Xie, Xuyang Li, Kaiya Wang* and Xiao-Yu Hu*



6864

Advances in polymer electrolyte design strategies for highly efficient supercapacitors and Zn-based batteries

Priyanka Pandinhare Puthiyaveetil, Athira Babu, Maria Kurian and Sreekumar Kurungot*



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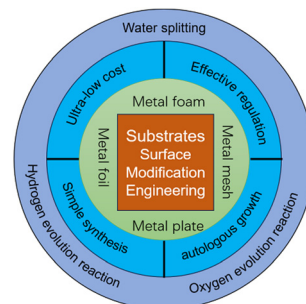
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FEATURE ARTICLES

6882

Obtaining materials from local sources: surface modification engineering enabled substrates for water splitting

Derun Li, Junjie Huang, Yuan Heng, Lihua Gao, Zuoxu Wu* and Qingwen Zhou*

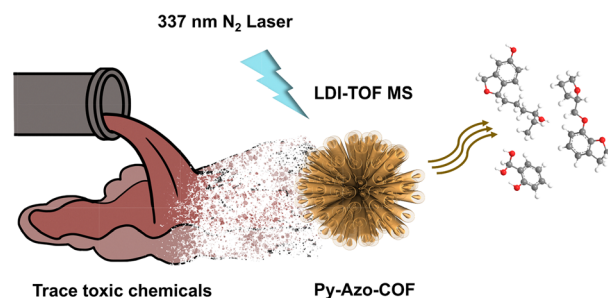


COMMUNICATIONS

6893

Py-Azo-decorated covalent organic frameworks as a structure-responsive mass spectrometry probe for high-sensitivity and high-throughput screening of trace toxic chemicals in complex samples

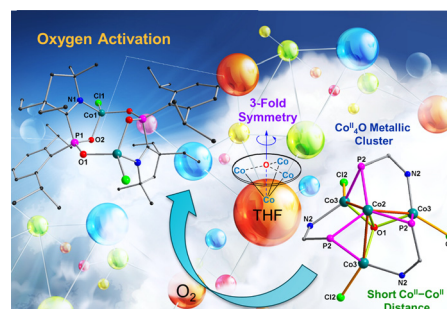
Li Huang, Qian Wang, Qiu-Rong He, Xiu Huang* and Zun-Zhen Zhang



6897

Isolation and oxygen activation of electron-rich Co_4O metallic clusters having a 3-fold symmetry

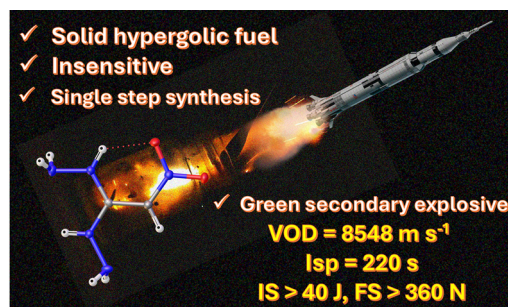
Maria Francis, Asutosh Patra, Farsana Abdul Salam, Liviu Ungur, Björn Schwarz* and Sudipta Roy*



6901

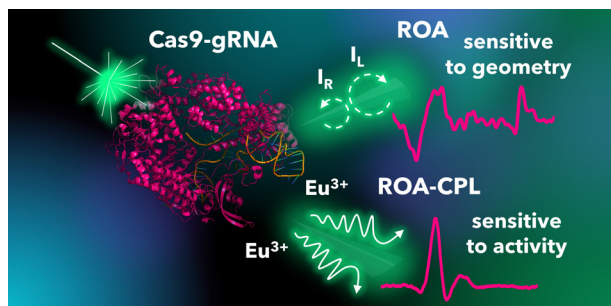
Revisiting the sensitive nature of H-FOX: interplay of nitro and hydrazine functionalities to construct an insensitive energetic material

Abhishek Kumar Yadav, Vikas D. Ghule and Srinivas Dharavath*



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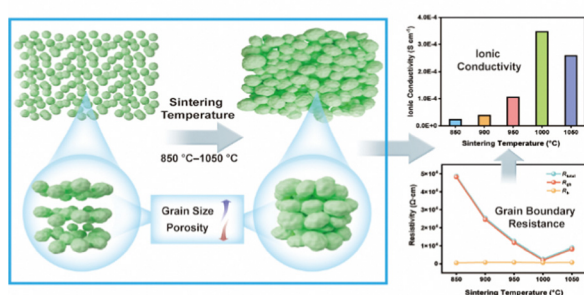
6905



Chiral sensing combined with nuclease activity assay to track Cas9 dynamics in solution: ROA and CPL study

Monika Halat,* Magdalena Klimek-Chodacka, Agnieszka Domagała, Grzegorz Zając, Tomasz Oleszkiewicz, Josef Kapitán and Rafal Baranski

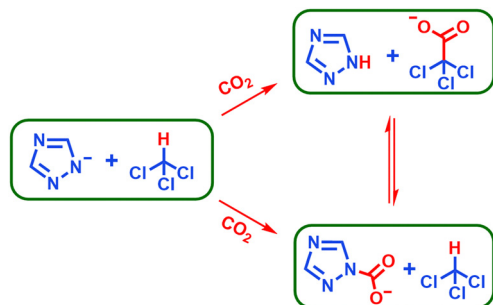
6909



Understanding the role of microstructure and grain boundaries in governing the ionic conductivity of NASICON-type solid-state electrolytes

Yuting Xie, Longbang Di, Lei Gao,* Bolong Hong, Song Gao, Zhouguang Lu, Yonggang Wang, Jinlong Zhu, Songbai Han* and Ruqiang Zou*

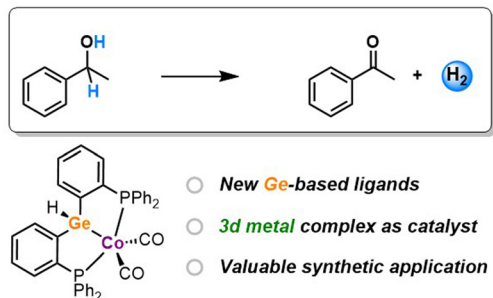
6913



The reaction between CO₂ and chloroform in anion-functionalized ionic liquids with the formation of trichloroacetates

Mingzhe Chen, Congyi Wu and Dezhong Yang*

6917



Catalytic acceptorless dehydrogenation of alcohols using cobalt(i) pincer complexes supported by a P–GeH–P ligand

Yu-Chao Liu, Dun-Xu Cao, Qi-Yang Ban, Wen-Jie Ma and Bin Xiao*

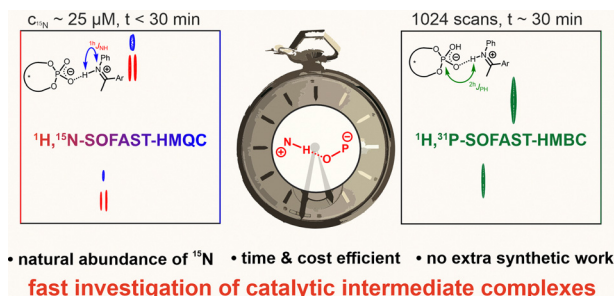


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Efficient detection of ^1H , ^{15}N correlations in hydrogen bonded low molecular catalyst–substrate intermediates without selective ^{15}N -labelling

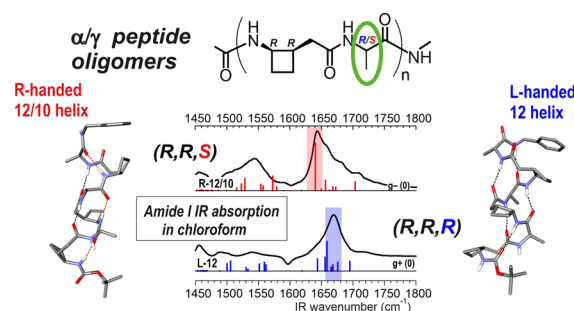
Christian L. Scholtes, Julian Ilgen and Ruth M. Gschwind*



6925

Stereochemical matching determines both helix type and handedness in α/γ -peptides with a cyclic-constrained γ -amino acid

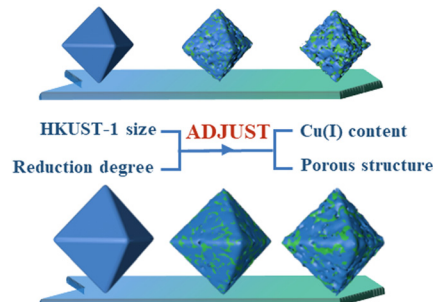
Dayi Liu, Ali T. Mansour, Ogaritte Yazbeck, Daoud Naoufal, Sylvie Robin, Eric Gloaguen, Valérie Brenner, Michel Mons* and David J. Aitken*



6929

The facile preparation of mixed-valence metal–organic frameworks through reduction

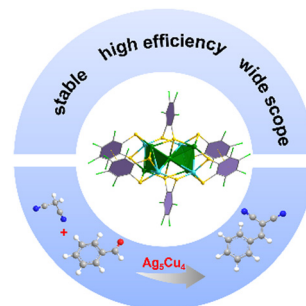
Yunshi Wang, Cen Chen and Liying Zhang*



6933

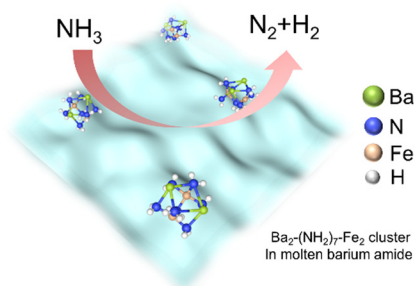
Highly stable bidentate thiol-protected Ag_5Cu_4 nanoclusters: a stable catalyst for enhanced Knoevenagel condensation

Yan Nong, Juefei Dai, Chao Yang*, Haifeng Su, Chengcheng Feng, Chuanhua Shi, Zhixun Zhang, Xianyong Yu, Xueji Zhang* and Huayan Yang*



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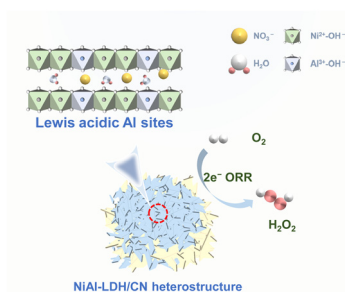
6937



Ammonia decomposition for H_2 production over an iron catalyst in a molten barium amide

Haojun Li, Li Rao,* Sheng Feng, Wenbo Gao, Jiemin Wang, Yanbo Deng, Xuanwei Chang, Lin Liu, Teng He, Jianping Guo* and Ping Chen

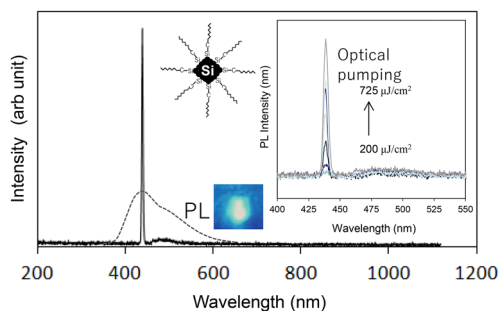
6941



Enhanced two-electron oxygen reduction via Lewis acidic aluminum sites and heterostructures in a nickel-aluminum layered double hydroxide/carbon nitride catalyst

Shuanghong Yang, Suqin Wu, Wenhao Zhang, Guoxing Zhu* and Li Xu*

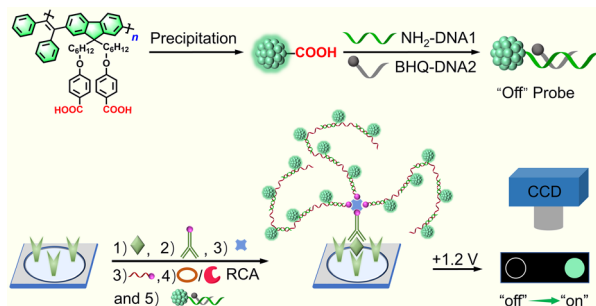
6945



Deep-blue amplified spontaneous emission and lasing in colloidal silicon nanoclusters

Hiroyuki Yamada, Tohru Tsuruoka,* Tadaaki Nagao and Naoto Shirahata*

6949



Electrochemiluminescence imaging for immunoassay of prostate-specific antigen utilizing AIE-active polymer dots as the probe

Hang Gao,* Jia-Yuan Zhu, Lingling Xu and Qin Xu*

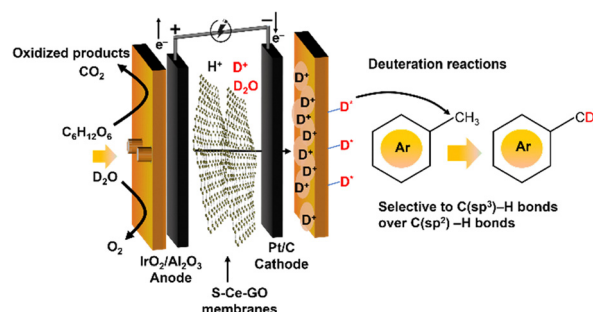


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Deuteration of organic compounds by electrolysis of glucose-heavy water using a graphene oxide membrane reactor

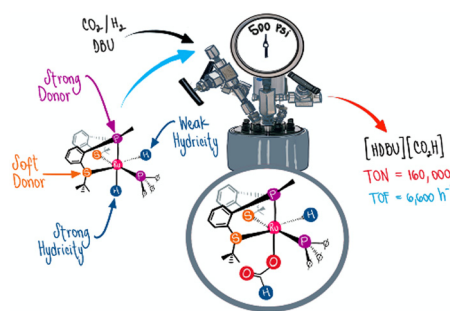
Le Mai Hong Tham, Imam Sahroni, Ghina Kifayah Putri, Taiga Kodama, Muhammad Fadil, Takeru Nakahara, Ami Takase, Muhammad Sohail Ahmad, Armando T. Quitain, Yusuke Inomata, Prasert Reubroycharoen* and Tetsuya Kida*



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A highly active sulfur based pincer ruthenium catalyst for CO₂ hydrogenation

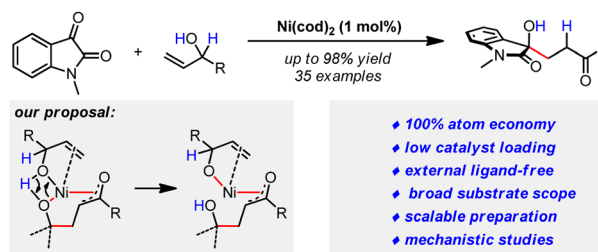
Alexander Mondragón-Díaz, Steven P. Kelley, Nilay Hazari and Wesley H. Bernskoetter*



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External ligand-free nickel-catalyzed atom-economical coupling of isatins with allyl alcohols via a redox-relay strategy

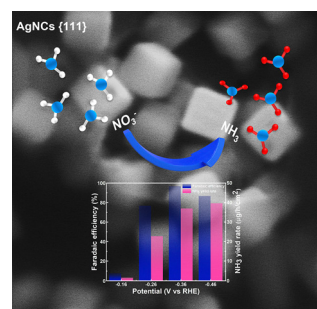
Bo Li, Qun Peng, Jia-Xue Wang, Ming-Bai Gou, Hong-Ji Zhao, Yu-Xin He, Zhen-Qi Luo, Qing He, Bin Liu, Miao Li,* Lei Tang, Jiayu Huang* and Rong-Hua Wang*



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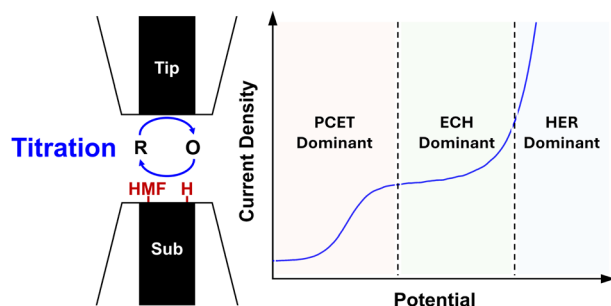
Enhanced electrocatalytic nitrate reduction to ammonia on silver nanocubes

Swathi M. Gowdru, Priyadarshini H. Nagaraju, Yi-Chia Chen, Kuan-Chang Wu, Chia-Che Chang and Di-Yan Wang*



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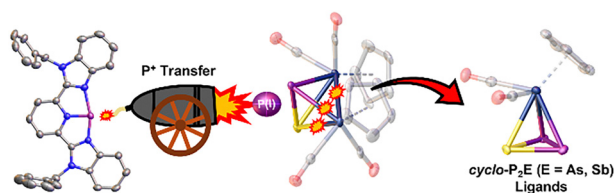
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Mechanistic understanding of electrochemical hydrogenation of 5-hydroxymethylfurfural (HMF) via scanning electrochemical microscopy (SECM)

Seokjun Han and Won Tae Choi*

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Synthesis of heteropnictogen ligands via P^I transfer

Lisa Zimmermann, Michael A. Land, Christoph Riesinger, Charles L. B. Macdonald* and Manfred Scheer*

CORRECTION

6977

Correction: Ligand-free ^{99m}Tc -polyurea dendrimer complexes: nanoradiotheranostics targeting ovarian cancer

Adriana Cruz, Rita F. Pires, Paula Raposo, Célia Fernandes, António Paulo* and Vasco D.B. Bonifácio*

