Catalysis Science & Technology

A multidisciplinary journal focussing on all fundamental science and technological aspects of catalysis

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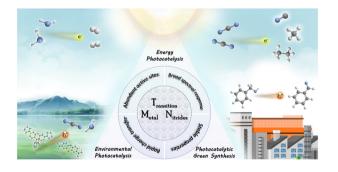
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Emerging transition metal nitrides in solar energy conversion: design strategies and future perspectives for efficient photocatalysis

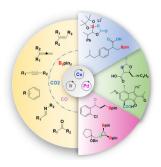
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Transforming carbon dioxide and carbon monoxide into value-added products: boracarboxylation and boracarbonylation

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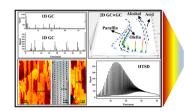


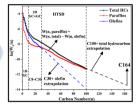
COMMUNICATION

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Comprehensive understanding of iron-catalyzed Fischer-Tropsch synthesis product distribution with extensive reliable data

Kunpeng Song, Xiaofeng Li, Wentao Li, Xiong Zhou, Liping Zhou,* Hongwei Xiang, Yong Yang and Yongwang Li



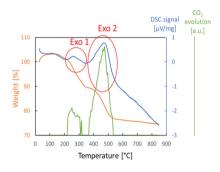


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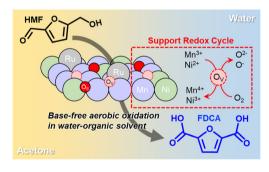
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Highly active and stable Ru-(OH)-based catalysts supported on Ni-manganite for the base-free aerobic oxidation of 5-hydroxymethyl furfural to 2,5-furan dicarboxylic acid in a noble water-organic solvent system

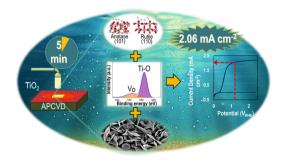
Bolla Srinivasa Rao, Marcel Jonathan Hidajat, Gwang-Nam Yun* and Dong Won Hwang*



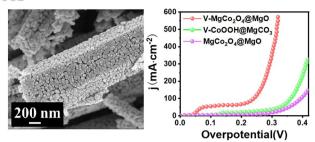
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Enhanced hydrogen evolution reaction performance of anatase-rutile TiO₂ heterojunction via charge transfer from rutile to anatase

Nurul Affiqah Arzaee, Nuttapon Yodsin, Habib Ullah,* Sabiha Sultana, Mohamad Firdaus Mohamad Noh, Ahmad Wafi Mahmood Zuhdi, Abd Rashid Bin Mohd Yusoff,* Siriporn Jungsuttiwong* and Mohd Asri Mat Teridi*



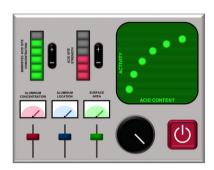
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Reversing Mg suppression effect on Co-site water oxidation of MgCo₂O₄ based on vanadium-atom electronic affinity synergy with Mg sites toward electronic redistribution

Hui Zhang, Hui Han, Xuan Yang, Hongyu Ma, Zhifei Song and Xuqiang Ji*

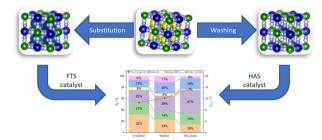
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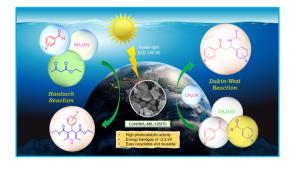
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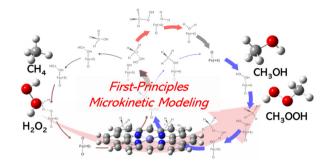
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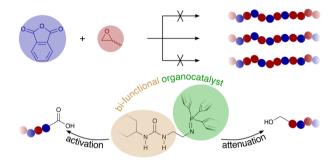
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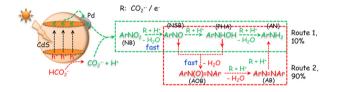
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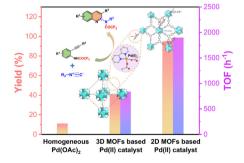
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Xianliang Fu,* Zhulin Qi, Wei Ren, Man Xu and Yang Yang*

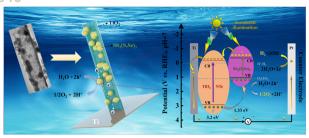


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Xiao Feng, Yanwei Ren,* Haosen Wang, Wanging Wu and Huanfeng Jiang*



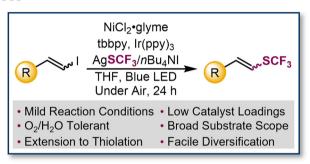
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Wei Jin, Dekang Liu, Liyuan Zhang, Qian Sun, Yishan Wang, Enzhou Liu, Xiaoyun Hu and Hui Miao*

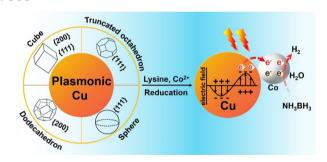
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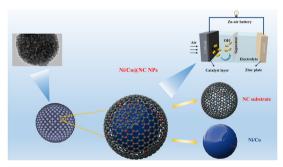
Eric R. King,* Maxime Tarrago and Avipsa Ghosh*

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Shoujun Guo, Yue Qiao, Junfang Ding,* Yan Guo, Chenhui Han and Xiaojun Gu*



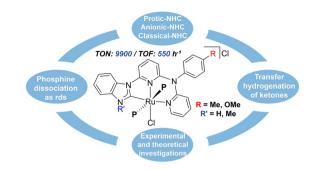
General synthesis of carbon-guarded cobalt-based nanospheres for oxygen reduction electrocatalysis

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Mechanistic insights and comparative analysis of Ru(II)-NNC pincer complexes with anionic-, protic-, and classical-NHCs for transfer hydrogenation of ketones

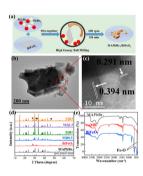
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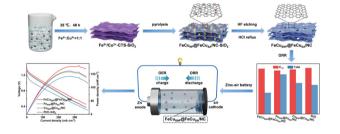
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Jing Peng, Bihua Hu, Zhitong Li, Zhiwei Lei, Xiongwei Zhong, Xingzhu Wang* and Baomin Xu*



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Palladium-catalyzed direct carbonylation of thiophenes and furans under CO/CO₂-binary conditions leading to carboxylic acids

Yuki Yamamoto, Daichi Kurata and Akiya Ogawa*

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Alkane Transfer Dehydrogenation Alkanes Ethylene H₂ H₂C CH₂ Pt-(Sn)/C Ethane **Olefins** H₃C---CH₃ Simple, heterogeneous catalyst **Aromatics** Mild conditions

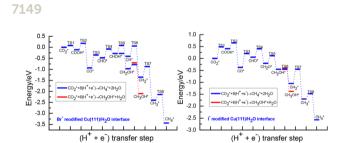
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Tim de la Croix, Nathalie Claes, Samuel Eyley, Wim Thielemans, Sara Bals and Dirk De Vos*



A central functional group-dependent stereoinduction mechanism for chiral super Brønsted C-H acid catalysis

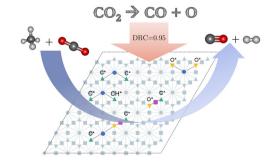
Lihan Zhu and Dongqi Wang*



Mechanistic insights into the effect of halide anions on electroreduction pathways of CO₂ to C₁ product at Cu/H2O electrochemical interfaces

Lihui Ou,* Wanli You and Junling Jin





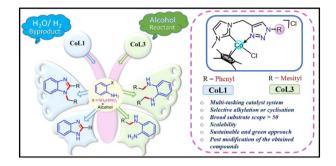
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Misba Siddique, Biswaranjan Boity and Arnab Rit*



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On the mechanism of benzimidazole synthesis via copper-catalysed intramolecular N-arylation

Xiaodong Jin, Yongjie Lin and Robert P. Davies*

CORRECTION

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Correction: Enhanced hydrogen evolution reaction performance of anatase-rutile TiO₂ heterojunction via charge transfer from rutile to anatase

Nurul Affigah Arzaee, Nuttapon Yodsin, Habib Ullah,* Sabiha Sultana, Mohamad Firdaus Mohamad Noh, Ahmad Wafi Mahmood Zuhdi, Abd Rashid Bin Mohd Yusoff,* Siriporn Jungsuttiwong* and Mohd Asri Mat Teridi*