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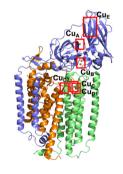
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Methane monooxygenases; physiology, biochemistry and structure

Yasuyoshi Sakai,* Hiroya Yurimoto and Seigo Shima*

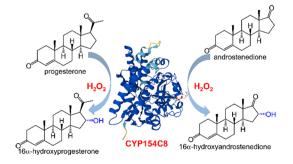


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Efficient regio- and stereo-selective C-H bond hydroxylation of steroids using an engineered heme-thiolate peroxygenase biocatalyst

Jinia Akter, Eva F. Hayball and Stephen G. Bell*



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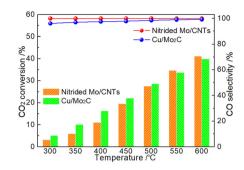


COMMUNICATIONS

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First comparison of catalytic CO₂ reduction to CO over molybdenum carbide, nitride and phosphide catalysts

Qingshan Rong, Wei Ding, Guogang Liu, Zhiqiang Zhang* and Zhiwei Yao*

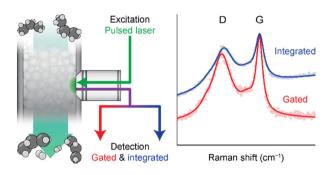


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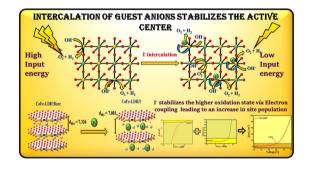
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Robin Vogel, P. Tim Prins, Freddy T. Rabouw and Bert M. Weckhuysen*



Tuning the active sites and optimizing the d-spacing value in CoFe-LDH by ex situ intercalation of guest anions: an innovative electrocatalyst for overall water splitting reaction

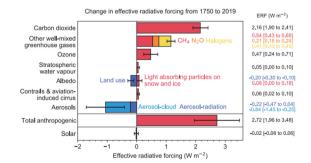
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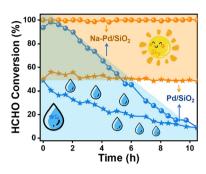
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Yun Wang, Haiyuan Zhang, Jie Zhang, Yijie Fu, Yuyin Wang, Yang Bai, Xin Feng, Jiahua Zhu, Xiaohua Lu, Liwen Mu* and Wei Li*

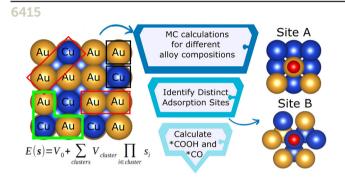


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Abnormal inhibiting effect of H2O on Pd/SiO2 and Na-Pd/SiO₂ catalysts for HCHO oxidation

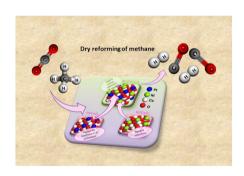
Chunying Wang, Jingyi Wang, Xiaofeng Liu, Yaobin Li,* Changbin Zhang, Yuming Zheng and Wenpo Shan*



The effects of near-surface atomic order on the catalytic properties of Cu₃Au and CuAu₃ intermetallics for the CO₂ reduction reaction

Lucas G. Verga, Yunzhe Wang, Tanmoy Chakraborty, Juarez L. F. Da Silva and Tim Mueller*

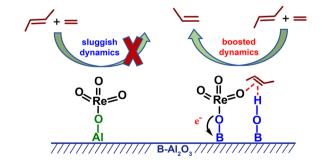
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Low temperature reforming of methane with CO₂ over Pt/CeO₂, Ni/CeO₂ and Pt-Ni/CeO₂ catalysts prepared by a solution-combustion method

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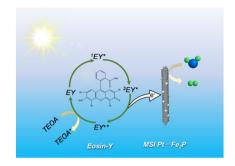
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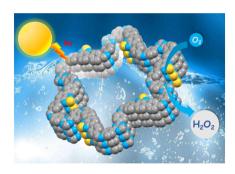
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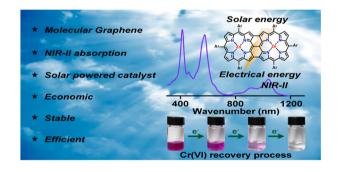
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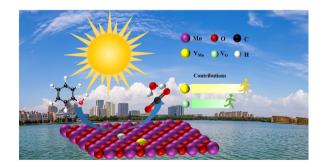
Sewage remediation using solar energy and a triply fused Zn-porphyrin dimer molecular graphene photocatalytic agent

Fei Cheng, Taotao Qiang,* Mingli Li and Tony D. James*

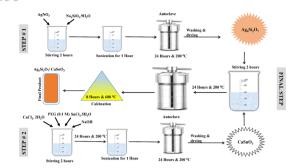


The quantitative contribution of interfacial coexisting Mn and O vacancies to MnO₂ photocatalytic degradation of phenol

Yahui Zhou, Xingxin Lei, Dali Yan, Jian Ye, Bo Deng* and Weilin Xu



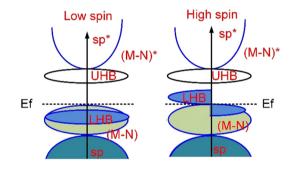
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Tuning the catalytic performance of CaSnO₃ by developing an S-scheme p-n heterojunction through Ag₆Si₂O₇ doping

Navid Hussain Shah, Muhammad Abbas, Muhammad Qasim, Muhammad Sulman, Muhammad Imran, Sohail Azmat, Yanyan Cui* and Yaling Wang*

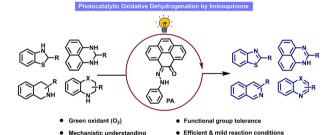
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Spin-state reconfiguration of single-atom dimers via superexchange interactions enables nitrate reduction to ammonia

Yun Shan,* Tinghui Li* and Lizhe Liu*

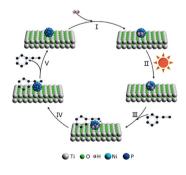
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Photochemical oxidative dehydrogenation of saturated N-heterocycles by an iminoquinone

Baishanal Mandal, Amreen K. Bains, Monojit Roy and Debashis Adhikari*

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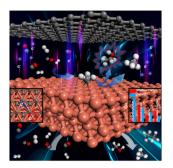
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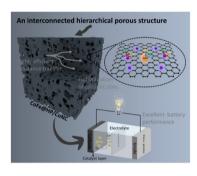
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Amorphous zeolite imidazole framework-derived hierarchically porous and multi-catalytic active site bifunctional catalysts for zinc-air batteries

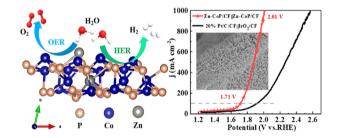
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Xiaoyi Li, Jianfeng Huang,* Zixuan Liu, Qian Chen, Guanjun Chen, Yifei Zhang, Koji Kajiyoshi, Yong Zhao, Yijun Liu, Liyun Cao* and Liangliang Feng*



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Efficient depolymerization of PET over Ti-doped SBA-15 with abundant Lewis acid sites via glycolysis

Songlei Mo, Yong Guo, Xiaohui Liu and Yangin Wang*

