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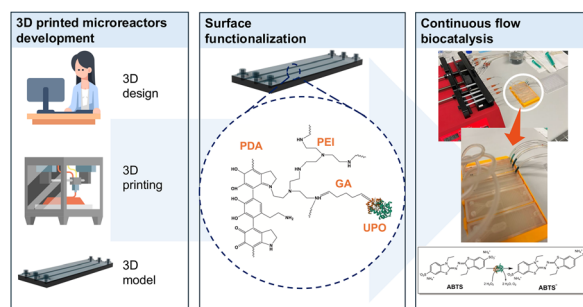
Registered charity number: 207890



6496

Unspecific peroxygenase immobilization in 3D-printed microfluidics: towards tailor-made screening platforms

Elena Gkantzou, Theofilia Koulopoulou, Hannah Brass, David Schönauer, Anton Glieder and Selin Kara*

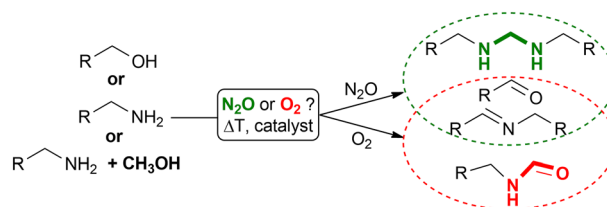


PAPERS

6503

Bioinspired copper-catalysed nitrous oxide reduction with simultaneous N–H or O–H bond oxidation

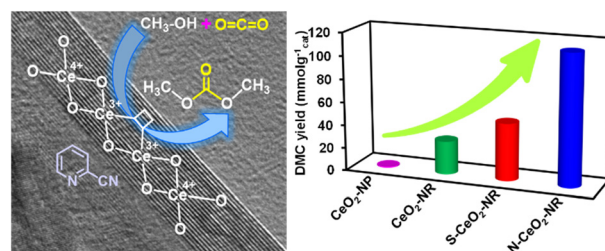
Bruce A. Lobo Sacchelli, Suellen M. P. Onguene, Ruben S. M. Almeida, Alexandra M. M. Antunes, Dmytro S. Nesterov, Leandro H. Andrade, Elisabete C. B. A. Alegria* and Martin H. G. Prechtl*



6513

Heteroatom-assisted oxygen vacancies in cerium oxide catalysts for efficient synthesis of dimethyl carbonate from CO₂ and methanol

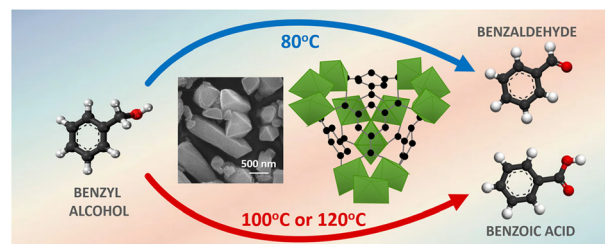
Niladri Maity,* Samiyah A. Al-Jendan, Samir Barman, Nagendra Kulal and E. A. Jaseer



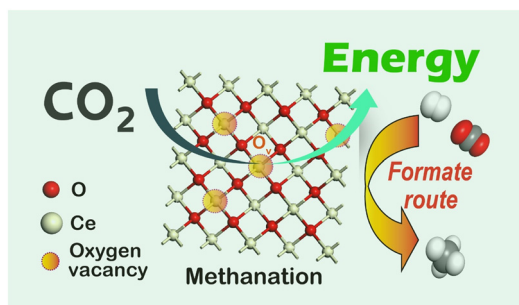
6524

Switching of selectivity from benzaldehyde to benzoic acid using MIL-100(V) as a heterogeneous catalyst in aerobic oxidation of benzyl alcohol

Duygu Hacıfendioğlu and Ali Tuncel*



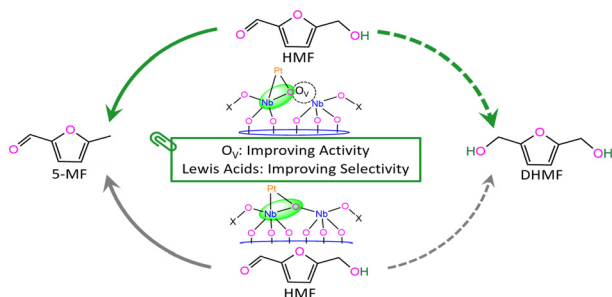
6537



Oxygen vacancy-dependent low-temperature performance of Ni/CeO₂ in CO₂ methanation

Luliang Liao, Kunlei Wang, Guangfu Liao,*
 Muhammad Asif Nawaz* and Kun Liu*

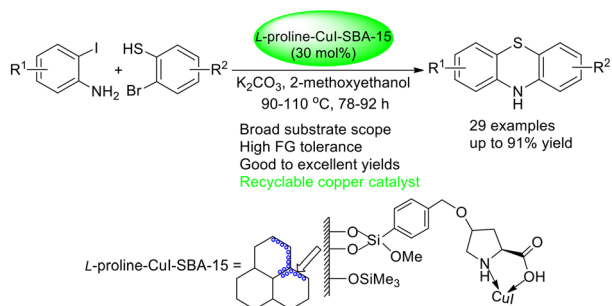
6550



Synergistic promotion of oxygen vacancy and Lewis acidity of Nb₂O₅ on the preferential hydroxymethyl hydrogenolysis of 5-hydroxymethylfurfural catalyzed by single atom Pt

Ting-Hao Liu, Shuai Fu, Jin-Tao Gou, Yin-Sheng Zhang,
 Chang-Wei Hu and Hua-Qing Yang*

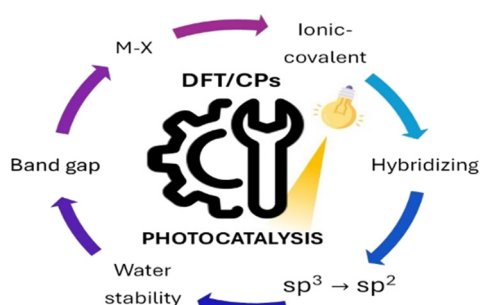
6561



Recyclable copper(i)-catalyzed cascade C–S and C–N bond formation between 2-iodoanilines and 2-bromobenzenethiols towards functionalized phenothiazines

Yan Wang, Chengkai Luo, Li Wei* and Mingzhong Cai*

6573



1D Zn(II)/2D Cu(I) halogen pyridyl coordination polymers. Band gap engineering by DFT for predicting more efficient photocatalysts in water treatment

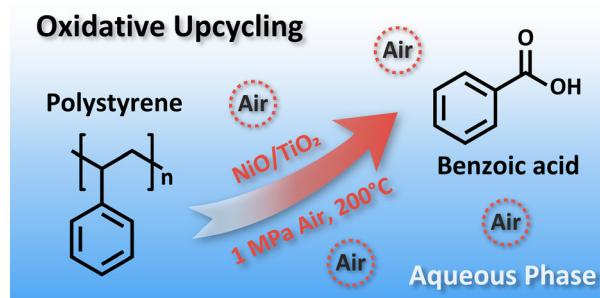
Andrea García-Hernán, Fernando Aguilar-Galindo,
 Oscar Castillo and Pilar Amo-Ochoa*



6584

Heterogeneous oxidative upcycling of polystyrene plastics to benzoic acid under air conditions

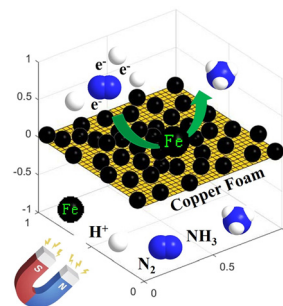
Chengyang Sun, Yong Guo, Xiaohui Liu and Yanqin Wang*



6592

In situ preparation and performance of iron-based electro-magnetic synergistic electrochemical nitrogen fixation catalysts

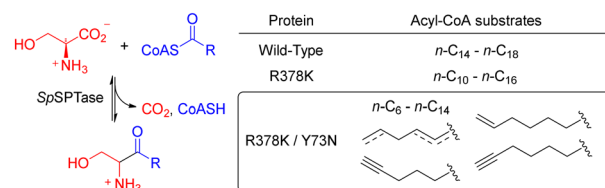
Kaidi Chen, Run Deng, Chen Zhao and Qikun Zhang*



6600

Broadening the substrate range of serine palmitoyltransferase by protein engineering and applications to 3-keto-dihydrosphingosine analogs

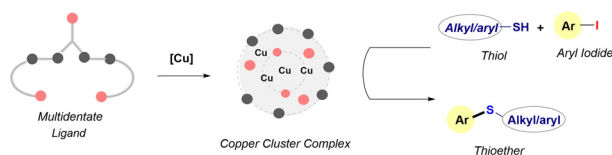
Hyunjun Choe, Minsun Cha, Ahram Kim and Jon D. Stewart*



6609

Copper cluster complex-catalyzed C-S bond formation

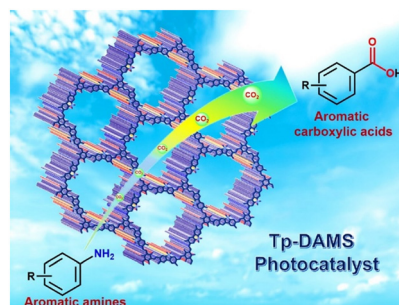
Nien-Chi Chang Liao, R. Sidick Basha, Bo-Hao Shih, Chia-Chun Liu, Miao-Han Wang, Po-Heng Lin* and Chin-Fa Lee*



6670

Highly effective solar CO₂ fixation *via* photocatalytic carboxylation of aromatic amines with carbon dioxide over a covalent organic framework (COF) as a photocatalyst

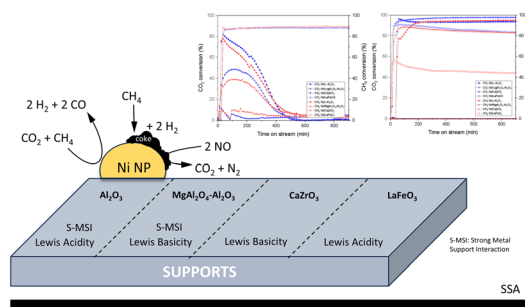
Chandani Singh, Jae Young Kim, No-Joong Park, Rajesh Kumar Yadav and Jin-Ook Baeg*



6678

Enhancing coking resistance of nickel-based catalysts for dry reforming of methane *via* nitric oxide abatement: a support study

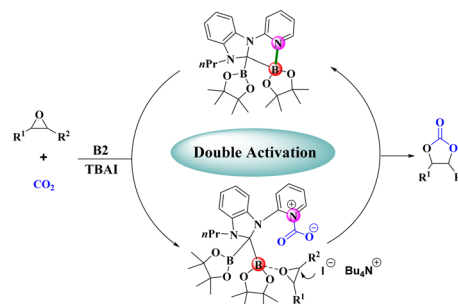
Beatrice Senoner,* Andrea Osti and Antonella Glisenti



6692

Boron–pyridine nitrogen cooperative catalytic conversion of carbon dioxide and epoxides to cyclic carbonates

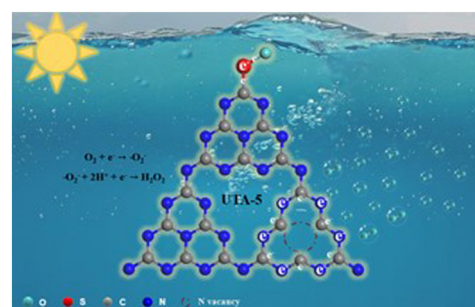
Yu-Hui Luo, Sheng Tao, Fei Chen,* Zhi-Hong Du, Hao Zhang, Min Li and Ning Liu*



6701

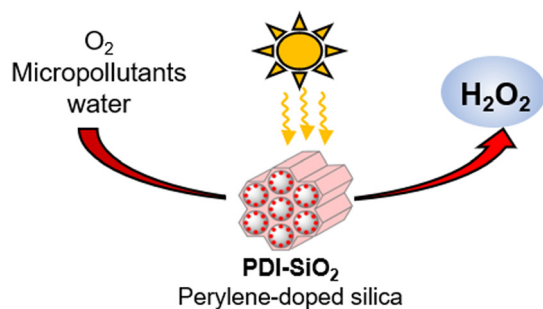
Dual defect sites at g-C₃N₄ synergistically induce the electron localization effect for boosting photocatalytic H₂O₂ production

Jingjing Jiang, Yuyao Chen, Shijian Zhou,* Haoran Xie, Changlai Li, Zheng Wei and Yan Kong*



PAPERS

6710



Photocatalytic H₂O₂ production with perylene(bis-imide)-doped periodic mesoporous silica using micropollutants as sacrificial donors

Charlotte David, Stephane Grolleau, Denys Grekov, Aydar Rakhmatullin, Errol Blart, Valerie Hequet* and Yann Pellegrin*

CORRECTION

6720

Correction: 1D Zn(II)/2D Cu(I) halogen pyridyl coordination polymers. Band gap engineering by DFT for predicting more efficient photocatalysts in water treatment

Andrea García-Hernán, Fernando Aguilar-Galindo, Oscar Castillo and Pilar Amo-Ochoa*

