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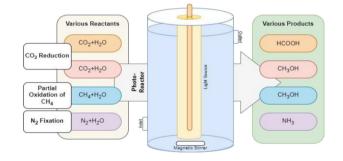
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Photocatalytic conversion of carbon dioxide, methane, and air for green fuels synthesis

Amira Chebbi, Alessandro Sinopoli, Ahmed Abotaleb and Yusuf Bicer*

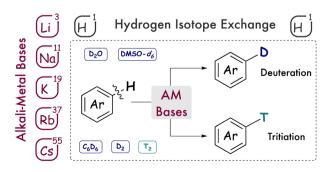


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Andreu Tortajada* and Eva Hevia*



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COMMUNICATION

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Observation of reactive intermediates in the initial stage during ethene conversion over acidic zeolites

Jing Niu, Yu-Ting Miao, Wei David Wang, Meng-Tong Ruan, Zhi-Peng Wang, Hua-Dong Xue, Si-Min Yu,* Chong Liu,* Jian-Feng Wu* and Wei Wang*



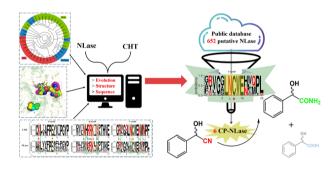
surface ethoxy species on acidic zeolites

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Rational identification of a catalytically promiscuous nitrilase by predicting a unique catalytic triad motif feature through an in silico strategy

Ke Zhang, Tingze Pan, Yangyang Sun, Zhuzhu Tang, Yuhong Ren, Hualei Wang* and Dongzhi Wei



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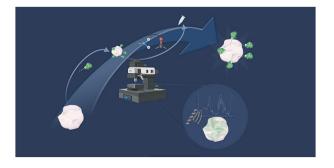
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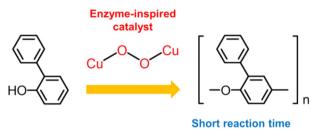
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Iulia-Ioana Rădoi, Diana Eva Bedolla, Lisa Vaccari, Anamaria Todea, Federico Zappaterra, Alexey Volkov and Lucia Gardossi*



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High molecular weight

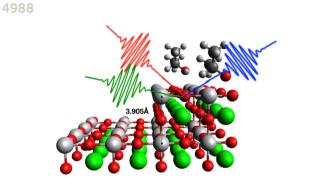
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Akivuki Nakano, Vivek S. Raut, Naoki Asao, * Akane Ando, Kiyoshi Fujisawa* and Hideyuki Higashimura*

4978 engineered aldolase L163C

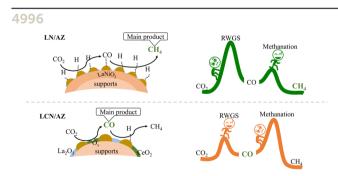
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Interaction of 2-propanol with predominantly SrOand TiO₂-terminated SrTiO₃(100) surfaces studied by vibrational sum frequency spectroscopy

Anupam Bera, Denise Bullert, Matthias Linke, Steffen Franzka, Ulrich Hagemann, Nils Hartmann and Eckart Hasselbrink*



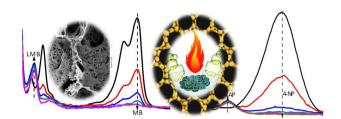
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Hongwei Wang, Huicong Feng, Yali Bao, Junxia Wu, Xiaotong Qu, Xianjun Zhang, Jinrong Liu* and Hong Wang*

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Chemistry of iron and copper co-doped zinc oxide: reduction and degradation of pollutants

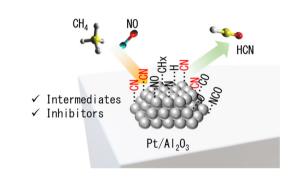
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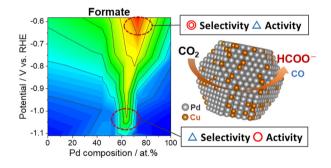
Atsushi Takagaki,* Kyoko K. Bando,* Tatsuya Yamasaki, Junichi Murakami, Nobuya Suganuma, I. Tyrone Ghampson, Tetsuya Kodaira, Tatsumi Ishihara and Tetsuya Shishido*



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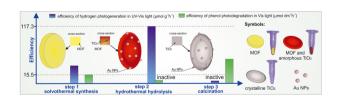
Naoto Todoroki,* Masanao Ishijima,* Jhon L. Cuya Huaman, Yuto Tanaka and Jeyadevan Balachandran



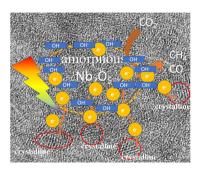
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MOF/TiO₂ erythrocyte-like heterostructures decorated by noble metals for use in hydrogen photogeneration and pollutant photodegradation

Mateusz A. Baluk,* Paweł Mazierski, Aleksandra Pieczyńska, Kostiantyn Nikiforow, Grzegorz Trykowski, Tomasz Klimczuk and Adriana Zaleska-Medynska*



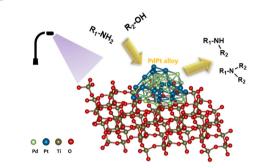
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Constructing a crystalline-amorphous hydrated niobium pentoxide homojunction for superior photocatalytic CO2 reduction into CH4 with high selectivity

Fengyun Su,* Zhishuai Wang, Mengzhen Tian, Kecheng Liu, Haiguan Xie, Wenguang Tu,* Yezhen Zhang, Xiang Li, Xiaoli Jin and Xin Ying Kong*

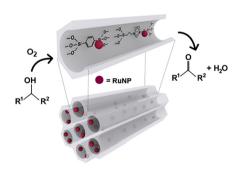
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Bimetallic Pt-Pd catalysts supported on TiO2 for enhanced photocatalytic N-alkylation of amines with alcohols: the synergistic effect

Zihan Lv, Zeng Hong,* Chao Qian and Shaodong Zhou*

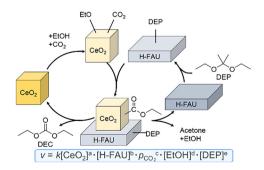
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Omid Pourshiani, Babak Karimi,* Hesamodin Moradi, Werner R. Thiel,* Hojatollah Vali, Pietro Mastrorilli and Stefano Todisco

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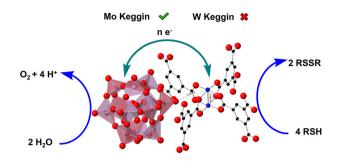
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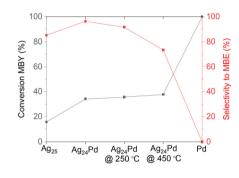
Xinlin Lu, Ting Cheng, Yurii V. Geletii,* John Bacsa and Craig L. Hill*



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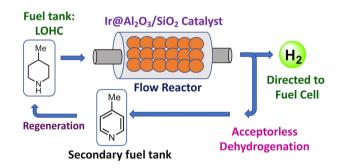
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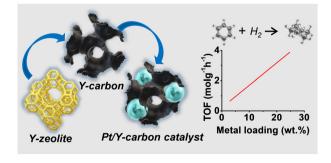
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Platinum nanoparticles on 3D graphene-like zeolitetemplated carbon for benzene hydrogenation

Somayeh F. Rastegar, Radim Pilar, Jaroslava Moravkova, Galina Sadovska, Vasile I. Parvulescu, Jana Pastvova, Jan Plsek, Dalibor Kaucky, Nikola Kostkova and Petr Sazama*



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[Au(Np#)Cl]: highly reactive and broadly applicable Au(ı)–NHC catalysts for alkyne π -activation reactions

Md. Mahbubur Rahman, Pengcheng Gao, Qun Zhao, Roger Lalancette, Roman Szostak and Michal Szostak*