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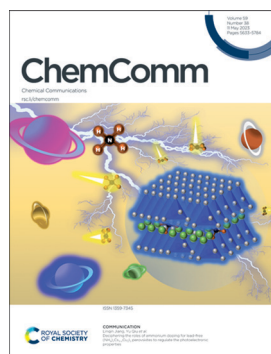
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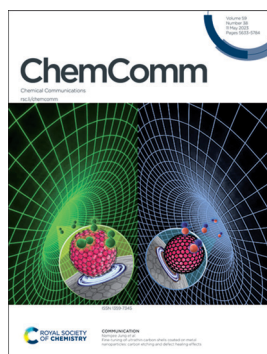
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See Linqin Jiang, Yu Qiu *et al.*, pp. 5677–5680. Image reproduced by permission of Linqin Jiang from *Chem. Commun.*, 2023, 59, 5677.



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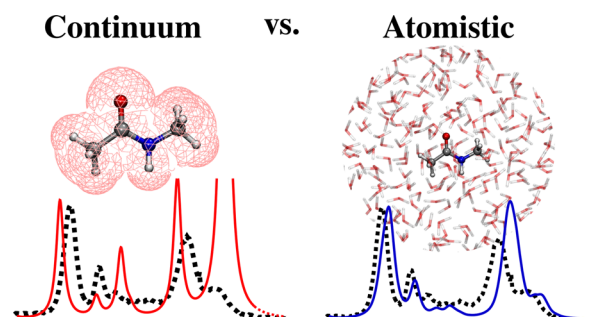
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FEATURE ARTICLES

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Continuum vs. atomistic approaches to computational spectroscopy of solvated systems

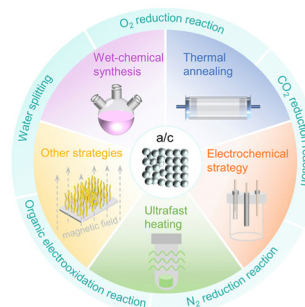
Tommaso Giovannini and Chiara Cappelli*



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Amorphous/crystalline heterophase electrocatalysts: synthesis, applications and perspectives

Zhichao Gong, Jingjing Liu, Gonglan Ye* and Huilong Fei*



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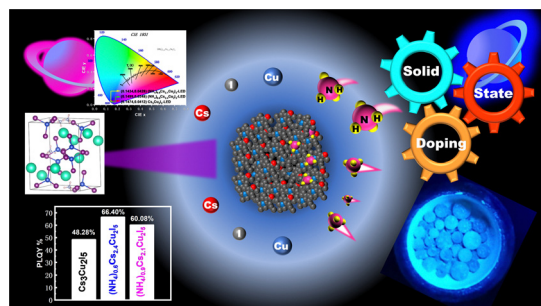
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Deciphering the roles of ammonium doping for lead-free $(\text{NH}_4)_x\text{Cs}_{3-x}\text{Cu}_2\text{I}_5$ perovskites to regulate the photoelectronic properties

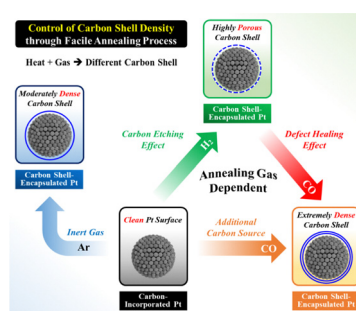
Zeyao Xu, Linqin Jiang,* Hao Xiong, Jiansen Wen, Ping Li, Lingyan Lin, Bo Wu, Aijun Yang and Yu Qiu*



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Fine-tuning of ultrathin carbon shells coated on metal nanoparticles: carbon etching and defect healing effects

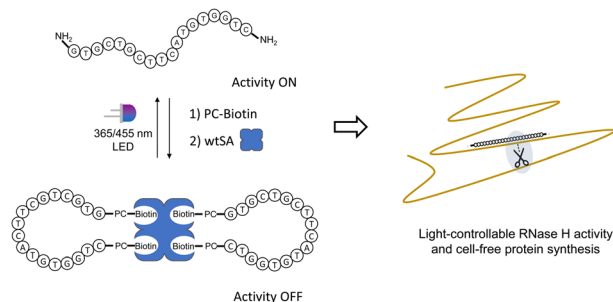
Jiho Min, Keonwoo Ko, Yunjin Kim, Sreya Roy Chowdhury, A. Anto Jeffery, Sourabh S. Chougule and Namgee Jung*



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Handcuffed antisense oligonucleotides for light-controlled cell-free expression

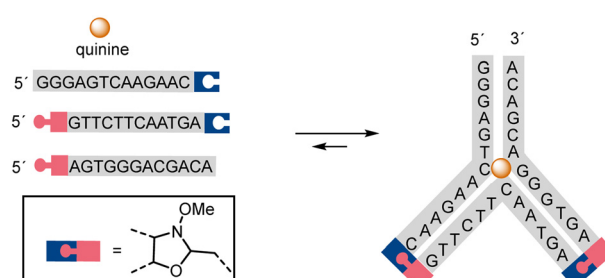
Denis Hartmann and Michael J. Booth*



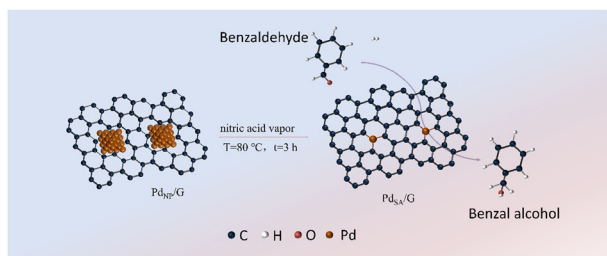
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Assembly of split aptamers by dynamic pH-responsive covalent ligation

Aapo Aho and Pasi Virta*



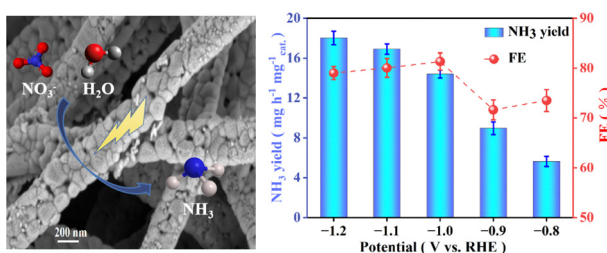
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Palladium single-atom catalysts synthesized by a gas-assisted redispersion strategy for efficient benzaldehyde hydrogenation

Lini Yang, Ling Li, Shuai Qin, Jingwang Zhang, Yue Wang, Xuetao Qin, Xiangbin Cai, Jiangyong Diao and Hongyang Liu*

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Efficient electrocatalytic reduction of nitrate to ammonia over fibrous SmCoO₃ under ambient conditions

Peiji Hu, Songjie Hu, Hongting Du, Qian Liu, Haoran Guo,* Ke Ma* and Tingshuai Li*

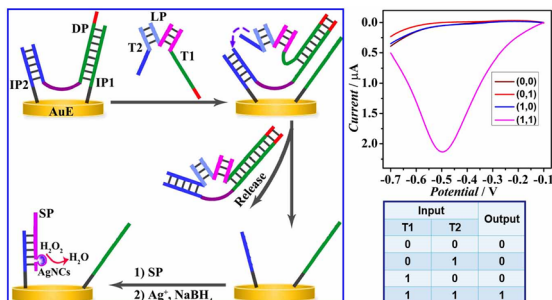
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Magnetization of amorphous FeOOH chrysanthemum-like nanosheets under ambient conditions

Yan Si, Siyu Shi, Jingyun Jing, Yun Bai and Qian Wang*

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An amplified logic gate driven by *in situ* synthesis of silver nanoclusters for identification of biomarkers

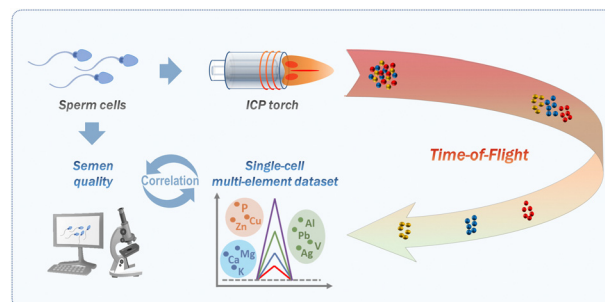
Hui Shen, Zhimin Li, Baoting Dou,* Qiumei Feng and Po Wang*



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Single-cell multi-element analysis reveals element distribution pattern in human sperm

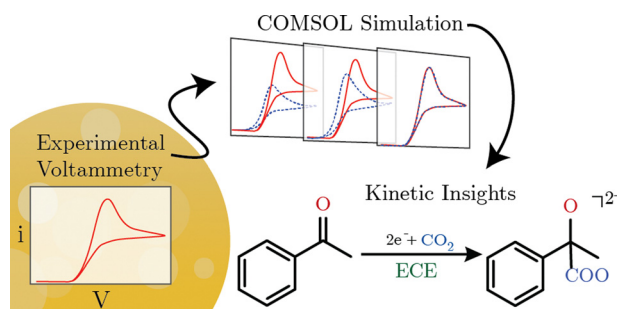
Xiangwei Tian, Xun Li, Nian Liu, Wenbin Cui, Lingna Zheng, Yingying Guo, Yanwei Liu, Ligang Hu, Meng Wang,* Yong Liang, Yongguang Yin,* Yong Cai, Guibin Jiang and Lei Jin*



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Distinguishing the mechanism of electrochemical carboxylation in CO₂ expanded Electrolytes

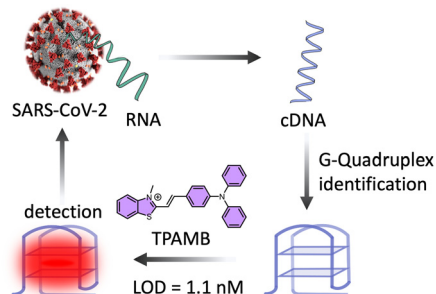
Matthew A. Stalcup, Christian K. Nilles, Bala Subramaniam,* James D. Blakemore* and Kevin C. Leonard*



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Coronavirus genomic cDNA derived G-quadruplex as a selective target for fluorometric detection

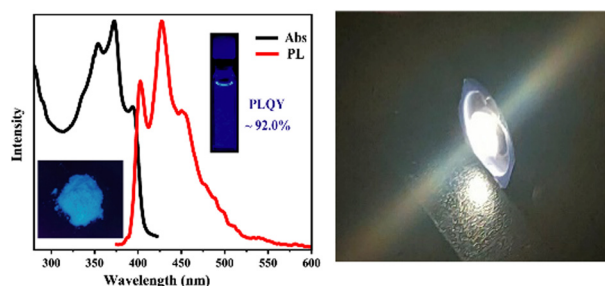
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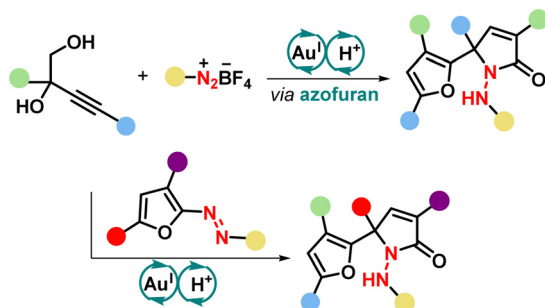
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Ultrabright blue-light-emitting cesium bromide quantum dots for white LEDs

Tianfeng Li, Mengdi Qiao, Xingyi He, Rui Zhu, Xia Ran, Xiaojuan Wang,* Yu Jia and Lijun Guo*



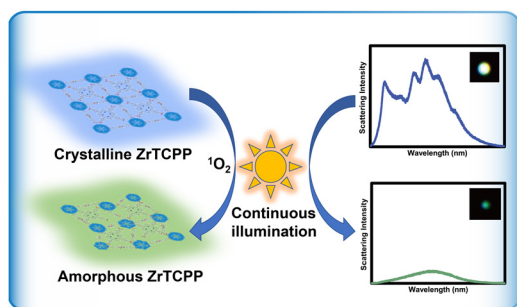
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Azofuran activation for annulative rearrangement enabled by gold(I)/Brønsted acid relay catalysis

Qian Rao, Yin Zhang, Yin-Ping Liu, Bo Jiang,*
Xiang Wang, Shu-Jiang Tu* and Wen-Juan Hao*

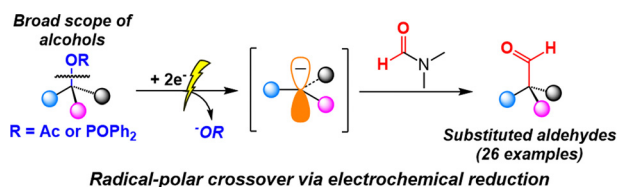
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Visual identification of 1O_2 -induced crystal structure transformation of single Zr-MOF by dark-field microscopy

Yue Xu, Qian Li, Wei He, Chang Ping Yang,
Peng Fei Gao,* Yuan Fang Li* and Cheng Zhi Huang*

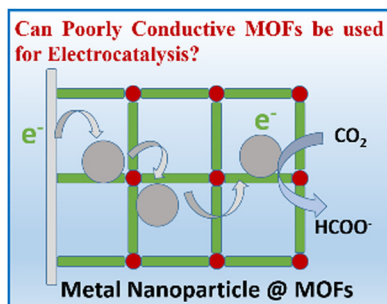
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Electroreductive formylation of activated alcohols via radical-polar crossover

Jungtaek Kang, Heyjin Cho and Hyunwoo Kim*

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Why can poorly conductive Bi@UiO-MOF catalyze CO_2 electroreduction?

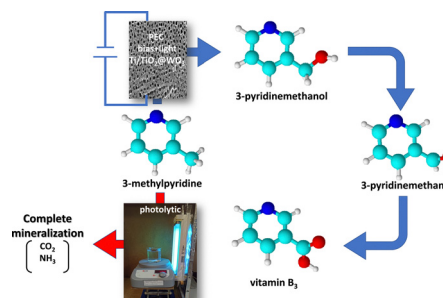
Xinru He, Ying Guo, Jingzheng Zhang, Shuangli Yang,
Jiawei Chen, Shurong Li, Shunji Xie, Ye Wang and
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Selective photoelectrocatalytic oxidation of 3-methylpyridine to vitamin B₃ by WO₃ decorated nanotube-structured TiO₂

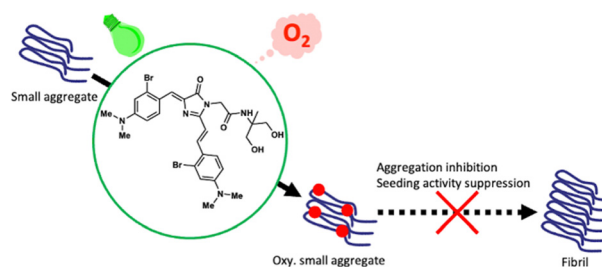
Sıdıka Çetinkaya, Levent Özcan, Oğuzhan Alagöz, Leonardo Palmisano and Sedat Yurdakal*



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Attenuation of α -synuclein aggregation by catalytic photo-oxygenation

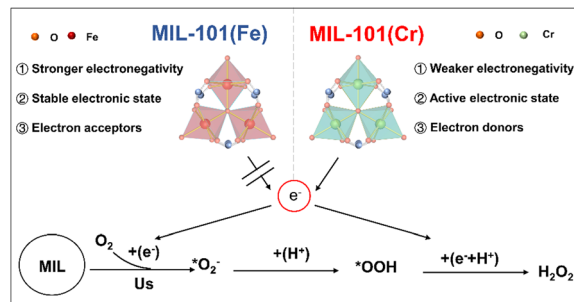
Atsushi Iwai, Reito Nakamura, Ikumi Tomizawa, Harunobu Mitsunuma, Yukiko Hori, Taisuke Tomita, Youhei Sohma* and Motomu Kanai*



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Modulating the metal center in MIL-101 for the piezoelectric catalytic synthesis of hydrogen peroxide

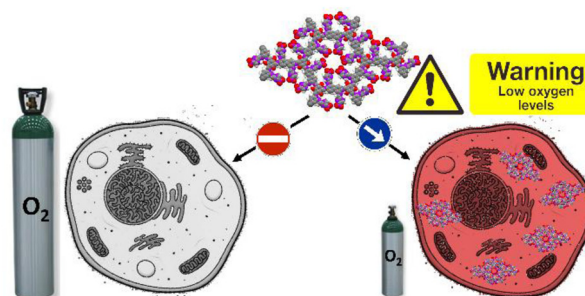
Yatai Li, Zhi Li, Xuecong Lin, Hao Lv and Mingshan Zhu*



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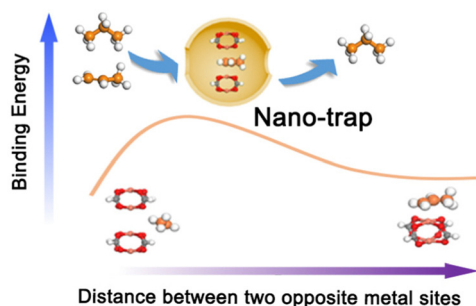
Nitroreductase-sensitive fluorescent covalent organic framework for tumor hypoxia imaging in cells

Tina Skorjanc,* Dinesh Shetty,* Sushil Kumar, Damjan Makuc, Gregor Mali, Janez Volavšek, Martina Bergant Marušič and Matjaz Valant



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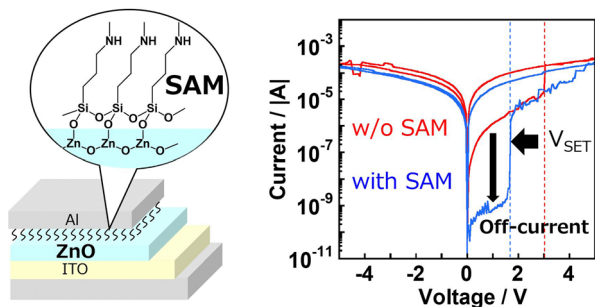
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Design of a MOF-based nano-trap for the efficient separation of propane from propylene

Hua Zhu, Yue Wang, Xin Wang, Zi-Wen Fan, Hui-Fang Wang,* Zheng Niu* and Jian-Ping Lang*

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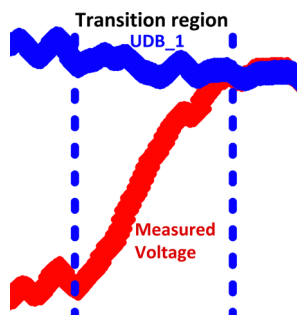


Control of the resistive switching voltage and reduction of the high-resistive-state current of zinc oxide by self-assembled monolayers

Masahiro Nakano,* Hiroki Matsui, Sae Nakagawa, Jiaxun You, Md. Shahiduzzaman, Makoto Karakawa and Tetsuya Taima

COMMENT

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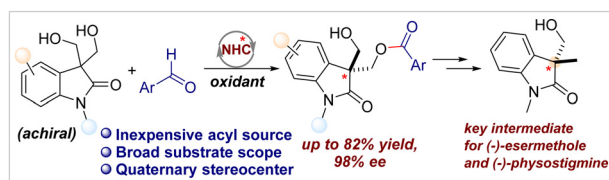


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N-Heterocyclic carbene catalyzed desymmetrization of diols: access to enantioenriched oxindoles having a C3-quaternary stereocenter

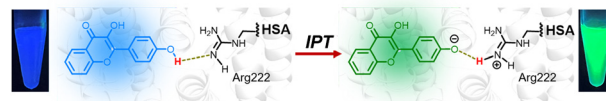
Sourav Dutta, Arka Porey and Joyram Guin*



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Intermolecular proton transfer from flavonol to human serum albumin triggers a red-shifted ratiometric fluorescence response

Zhongyong Xu, Mingyuan Zhang, Zihao Chen, Yutian Zhao, Lei Wang, Xiaoqiang Chen, Bin Liu* and Xiaojun Peng



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Intelligent convolution neural network-assisted SERS to realize highly accurate identification of six pathogenic *Vibrio*

Hui Yu, Zhilan Yang, Shiyong Fu, Yuejiao Zhang, Rajapandiyar Panneerselvam, Baoqiang Li, Lin Zhang,* Zehui Chen,* Xin Wang* and Jianfeng Li*

