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Cover

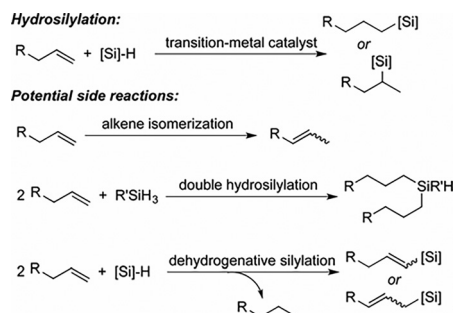
See Sun Hee Kim,
Shinya Hayami *et al.*,
pp. 18092-18095.
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Chem. Commun.,
2025, **61**, 18092.

HIGHLIGHTS

17961

Classic coordination compounds as the inspiration for MOFs: selected catalytic applications

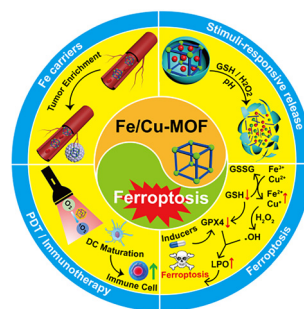
Marco L. Martínez, Antonio Hernández-Monsalvo, Pablo Marín-Rosas, Ariel Guzmán-Vargas, Jose Antonio de los Reyes, Diego Solís-Ibarra, Enrique Lima,* Ricardo A. Peralta* and Ilich A. Ibarra*



17975

Ferroptosis based on metal-organic frameworks for tumor therapy

Hang Li and Xuezhong Du*



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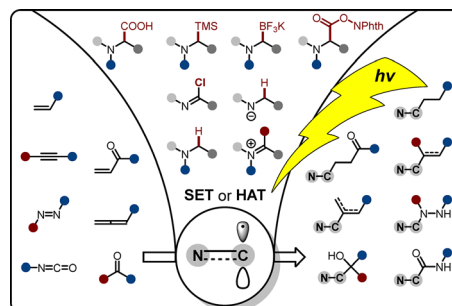


HIGHLIGHTS

17989

Photoredox-catalyzed nucleophilic addition of α -amino radicals to unsaturated compounds

Xu Ha, Yuze Hua and Guo-Qiang Xu*

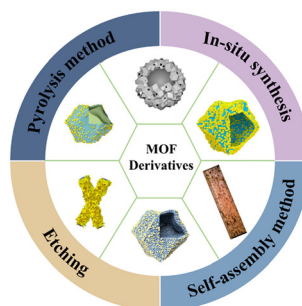


FEATURE ARTICLES

18017

Mechanistic and structural insights into MOF-based photocatalysts for selective CO₂ reduction

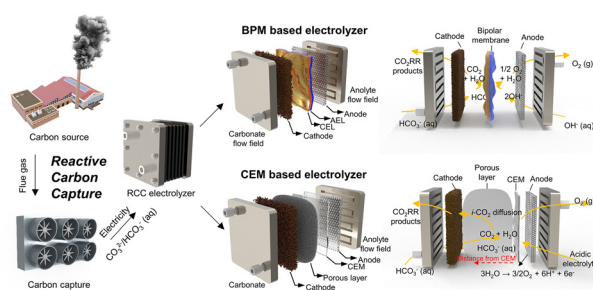
Yani Huang, Xiuzheng Deng, Changhai Liu* and Qian Liang*



18037

Advances in reactive carbon capture *via* carbonate/bicarbonate electrolysis for efficient CO₂ utilization

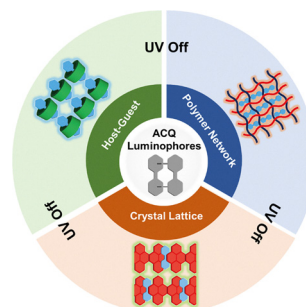
Taemin Lee, Hyeon-il Jeong, Yeon-A Cha, Dong-Hyun Shin and Dae-Hyun Nam*



18053

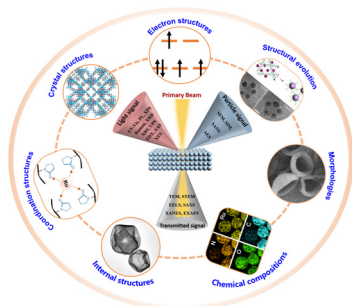
AIE-inspired segregation and immobilization strategies for achieving organic room temperature phosphorescence

Yiteng Cai, Jianbin Huang and Yun Yan*



FEATURE ARTICLES

18064



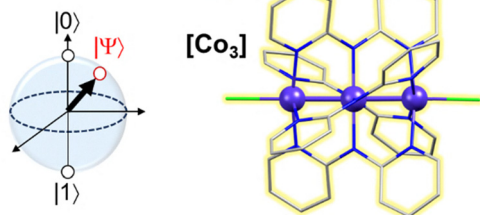
Overview of the characterization technique groups for submicroscopic structures from the micro-nano to atomic scale

Nan Yu,* Qingqing Liu, Jiayue Hu, Huan Liu* and Long Kuai*

COMMUNICATIONS

18092

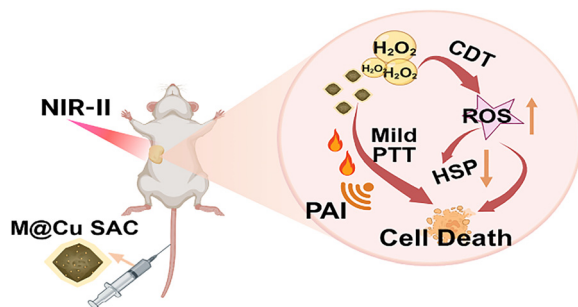
Multi-nuclear Molecular Spin Qubits (MSQs)



Slow magnetic relaxation in a trinuclear spin-crossover Co(II) compound with metal–metal bonding

Yoshihiro Sekine, Jeongcheol Shin, Sun Hee Kim,* Hikaru Zenno, Hisui Kobayashi, Ming-Chuan Cheng, Kil Sik Min, Shie-Ming Peng and Shinya Hayami*

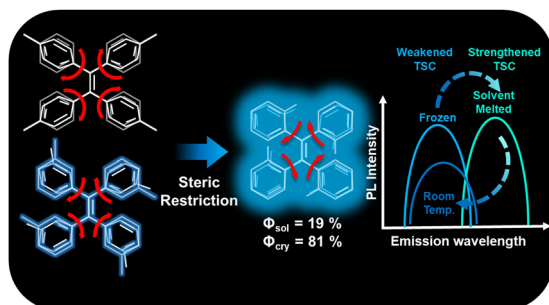
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A membrane camouflaged copper single-atom nanozyme for combined mild photothermal and chemodynamic therapy

Chunmei Guo, Yi Zhou, Xiaolong Zhang, Jingyi Shi, Yuhao Zu, Lina Qi, Jianhang Zhao, Quli Fan, Ying Chen* and Hui Zhou*

18100



Through-space conjugation engineering in methylated tetraphenylethene derivatives

Feng Gao, Yanning Xu, Zeyang Ding, Hanwen Liu, Haoran Wang, Parvej Alam,* Zijie Qiu* and Ben Zhong Tang*

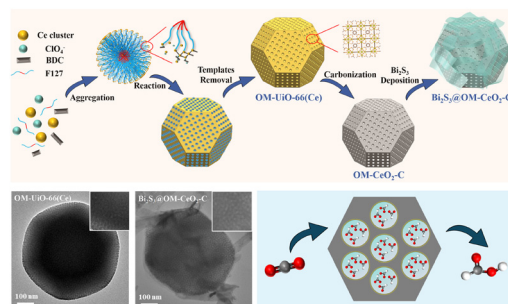


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An ordered mesoporous structure-based nano-confined Bi_2S_3 @OM-CeO₂-C hybrid catalyst for enhanced CO₂ electroreduction to formic acid

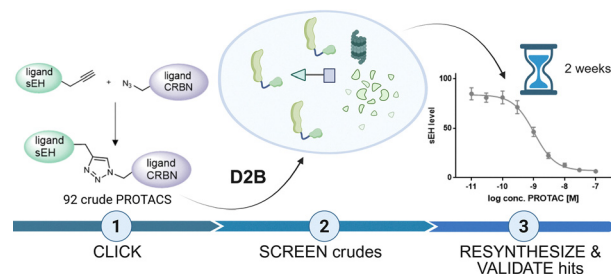
Xiaoyu Wang, Ning Wang, Hongxiang Huang, Xiaolian Sun and Wenlei Zhu*



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Click chemistry enables rapid development of potent sEH PROTACs using a direct-to-biology approach

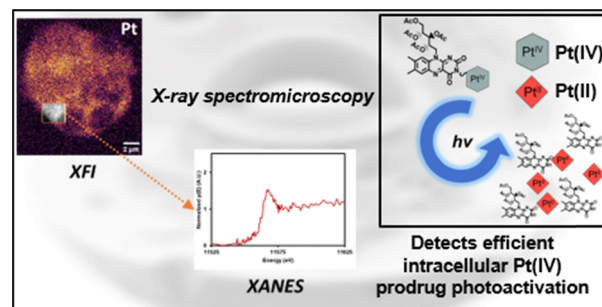
Julia Schönfeld, Nick Liebisch, Steffen Brunst, Lilia Weizel, Stefan Knapp, Aimo Kannt, Ewgenij Proschak and Kerstin Hiesinger*



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A snapshot of flavin-conjugated Pt anticancer agents: Pt(IV)-to-Pt(II) reduction revealed by X-ray fluorescence imaging and XANES

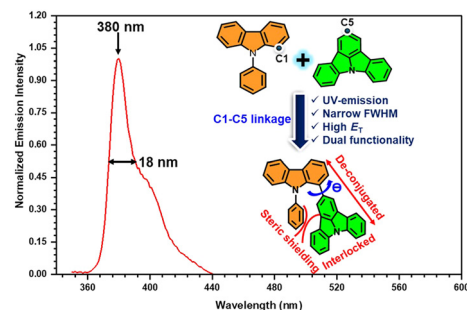
Esteban Zingales, Juan Sanchez-Camacho, Jessica Walker, Luca Salassa and Carlos Sanchez-Cano*



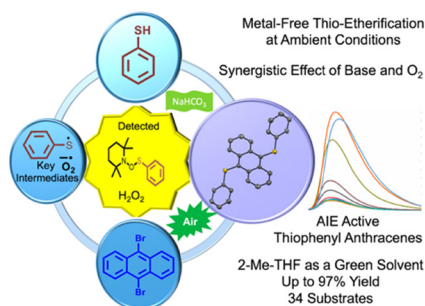
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A streamlined steric-shielding approach toward efficient narrowband (FWHM ~ 18 nm) ultra-violet emitters for OLEDs

Ankit Kumar, Seungwon Han, Dilip Kumar Sharma, Jun Yeob Lee* and Rajendra Kumar Konidena*



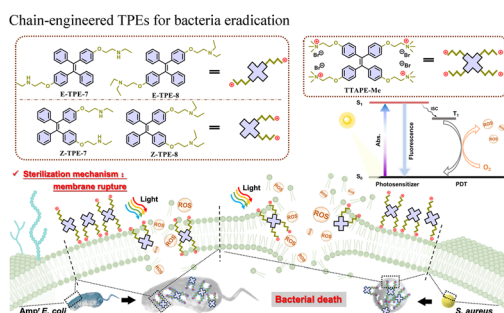
18120



Key role of oxygen and base in catalytic thioetherification: access to sulfur bridged poly-aromatic hydrocarbons

Bedabara Nag and Akshai Kumar*

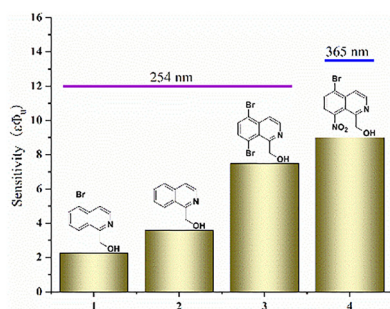
18124



Chain-engineered tetraphenylethylene derivatives for potent antimicrobial activity against pathogens

Haorun Song, Yutong Li, Li Xu, Hao Zhao, Huanxiang Yuan,* Ruilian Qi and Haotian Bai*

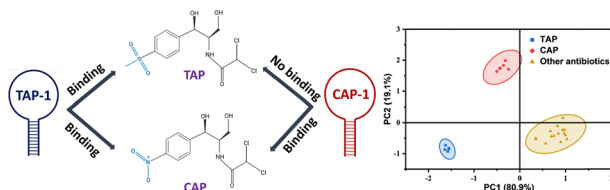
18128



A study of 1-(hydroxymethyl)isoquinoline as a new member of the photoremovable protecting groups

Xingzi Shi, Jiansong Zhou, Qiqi Wu, Hao Zeng, Li Liang, Shuang Xia, Jun Yan* and Xiaohua Sun*

18132



Combining aptamers for thiamphenicol and chloramphenicol for detecting both antibiotics

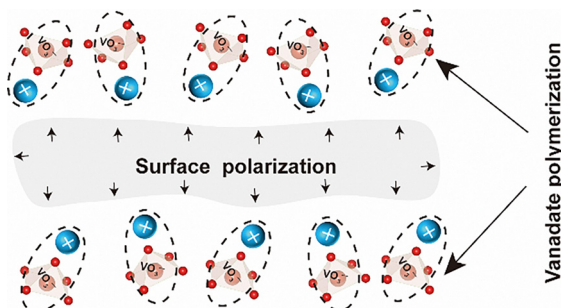
Yun Shu, Shiyuan Liu and Juewen Liu*



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Electrostatic-field-induced growth of V_2O_5 superlattices with PTFE for advanced zinc-ion batteries

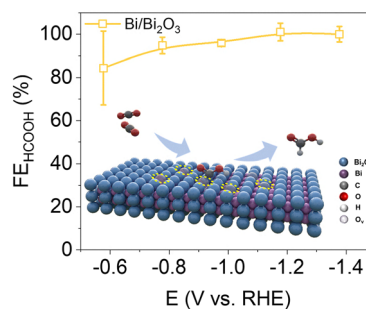
Jiangfeng Gong,* Bingxin Zhu, Yonghao Guan, Haiyuan Lin, Zhibin Shao, Chunmei Tang, Hongbing Yao, Guangchao Du and Wenyi He



18140

Hierarchical Bi/Bi_2O_3 heterostructures with robust oxygen vacancies for efficient electrochemical CO_2 reduction to formate

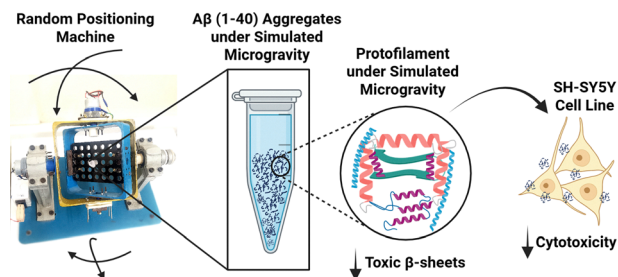
Yi Wang, Zhaolong Wang,* Siyu Yi, Qiankang Zhang, Mengxia Ji, Jinman Yang, Pengcheng Yan, Xingwang Zhu,* Hui Xu* and Xiaojie She*



18144

Impact of microgravity on the fibrillization kinetics and structure of amyloid beta peptide

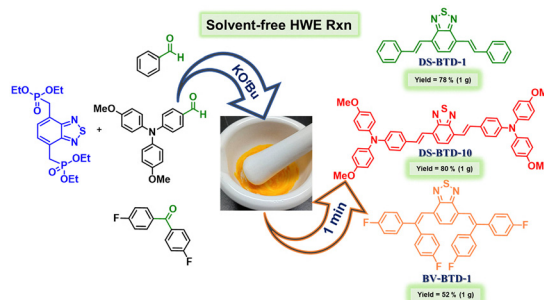
Hitendranath Napa Mallikarjuna, Anagha Manohar, Narendran Sekar and Swathi Sudhakar*



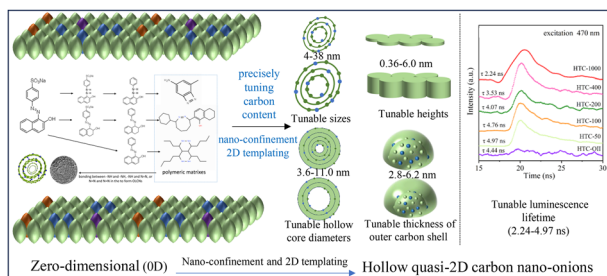
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Eco-friendly synthesis of highly emissive benzothiadiazole-based fluorophores via a solvent-free hand-grinding Horner–Wadsworth–Emmons reaction in ≤ 1 minute

Premkumar Gnanasekaran, Chia-Yu Chen, Ting-Hung Chu, Po-Heng Lin and Yuan Jay Chang*



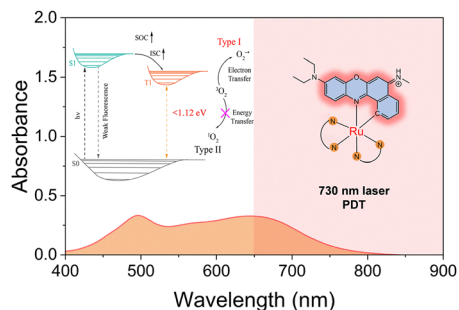
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Near-infrared-activated Ru(II)-nile blue conjugates as type-I photosensitizers for efficient hypoxia tumor therapy

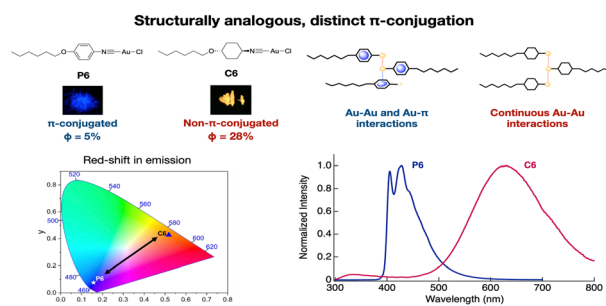
Pengmin Shi, Zhiyuan Zhou, Yanyan Sun,* Qinshen Xie, Chuanzhu Gao, Gang Xu, Jian Zhao* and Lei Fang*



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Eliminating π -conjugation to enhance aurophilic interactions and aggregation-induced phosphorescence in Au(I) complexes

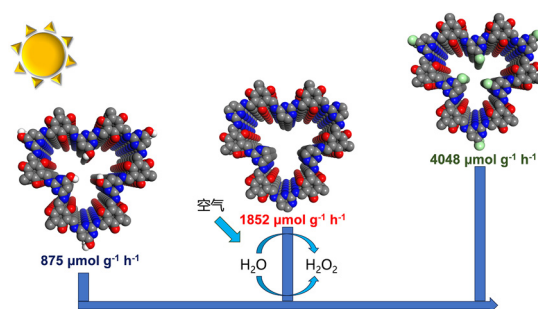
Andriani Furoida, Kazuhisa Ozaki, Ryoko Niimi, Arushi Rawat, Kohsuke Matsumoto, Kaori Fujisawa and Osamu Tsutsumi*



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Regulating the substituent of the electron-acceptor in a D-A system for boosting H_2O_2 photosynthesis from air and water

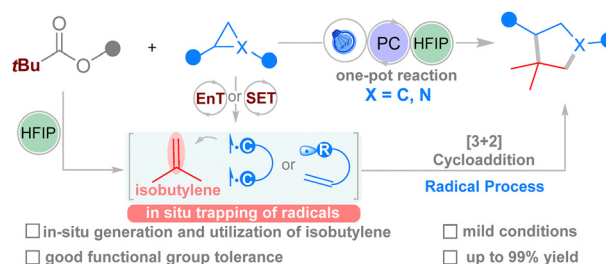
Yao Zhang, Yu Kai, Xuefeng Feng* and Feng Luo*



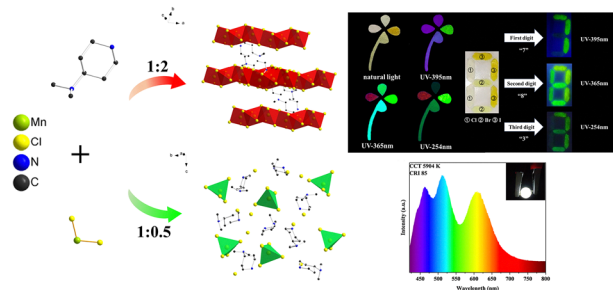
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Photoinduced [3+2] cycloaddition via HFIP-promoted *in situ* formation of isobutylene from the Boc group

Xue-Ling Luo, Yu Lv, Di-Jing Luo, Lu-Lu Qin, Shu-Hui Li,* Zhi-Peng Ye,* Zhen-Zhen Xie* and Peng-Ju Xia*



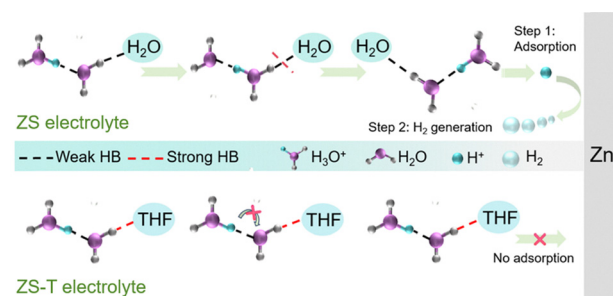
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New strategy for dimensional control of manganese-based metal halides: feed composition control

Xintong Li, Junhui Liu, Junwei Xiang, Qingsong Lv, Juan Wang* and Fengwan Guo*

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Tetrahydrofuran-mediated hydrogen bonding for stabilized zinc anodes

Bingjie Zhang, Zenglong Xu, Yiqun Du,* Guangbin Duan, Degang Zhao, Bingqiang Cao and Shuhua Yang*

