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ISSN 1359-7345 CODEN CHCOFS 61(51) 9145–9330 (2025)



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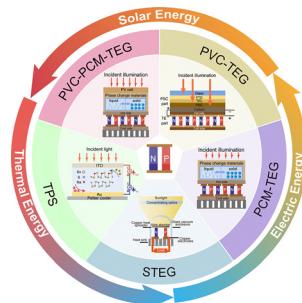
See Yuta Maeyoshi et al.,
pp. 9222–9225.
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Chem. Commun.,
2025, **61**, 9222.

HIGHLIGHTS

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Advances in integrated photo–thermal–electric energy conversion

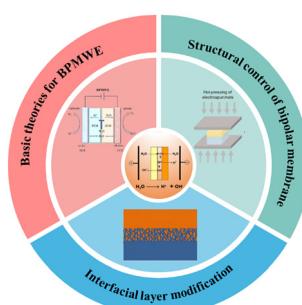
Zhanxiang Yin, Liqing Xu* and Yu Xiao*



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Challenges and innovations of bipolar membranes to enhance water electrolysis performance

Yunchao Lei, Jie Dong, Zhiyi Peng, Longlu Wang,
Jianmei Chen* and Dafeng Yan*





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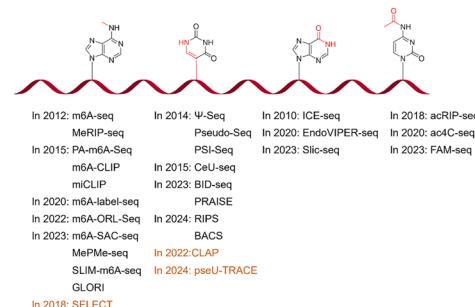


FEATURE ARTICLES

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Advances in the detection of RNA modification

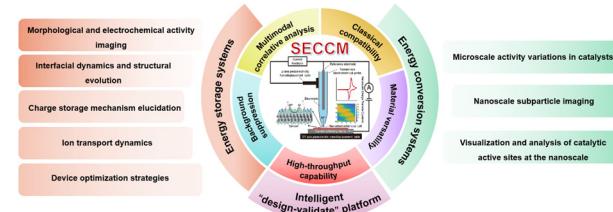
Ruiqi Zhao, Xin Fang and Xiaocheng Weng*



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Beyond macroscopic performance: nanoscale charge transfer dynamics in energy storage/conversion devices via scanning electrochemical cell microscopy

Zhenjiang Cao, Pengfei Li, Yujia He, Kai Jia, Yuxia Guan, Ning Gao, Juntao Gao, Li Jin, Rui Gao,* Shujiang Ding and Kai Xi*

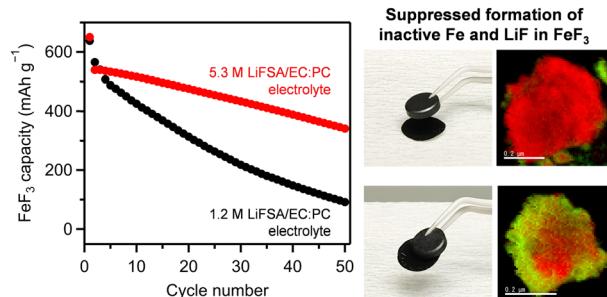


COMMUNICATIONS

9222

Understanding the mechanism behind improved cycling stability of FeF_3 cathode in lithium bis(fluorosulfonyl)amide-concentrated electrolytes

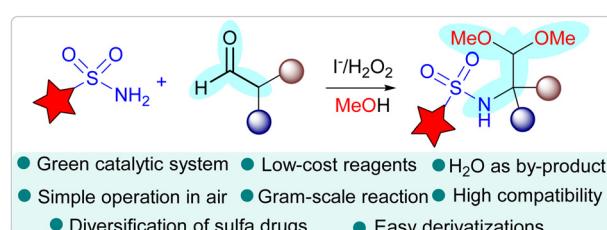
Yuta Maeyoshi,* Noboru Taguchi, Kazuki Yoshii, Masahiro Shikano and Hikari Sakaue



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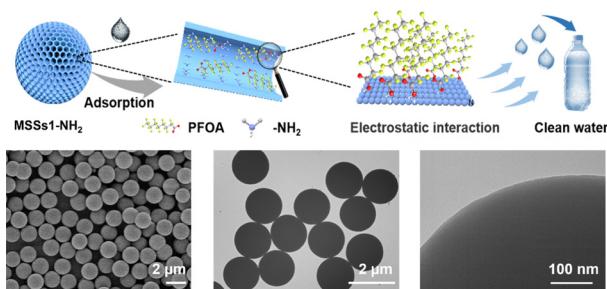
Oxidative N-functionalization of primary sulfonamides with aliphatic aldehydes: a green synthesis of α -sulfonamido acetals

Zhi-Hua Zhou, Ben Wang, Jie Tan, Wei-Yi Chen* and Jie-Sheng Tian*



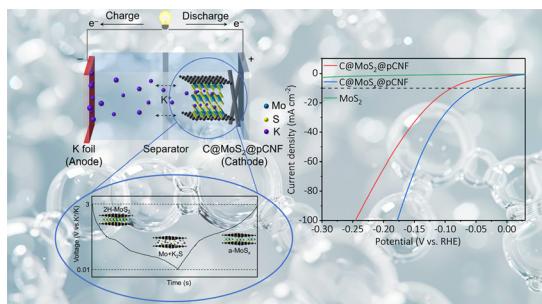
COMMUNICATIONS

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**Amino-modified high-surface-area radial-pore silica microspheres for efficient perfluorooctanoic acid removal**

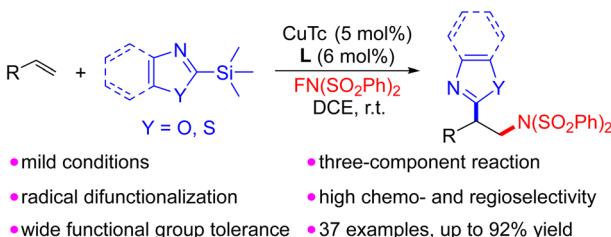
Jiwei Wang, Tianyu Gai, Shanbin Gao, Liang Qiao, Yuge Shen, Kerun Zhu, Kailin Li, Minghao Liu and Wei Li*

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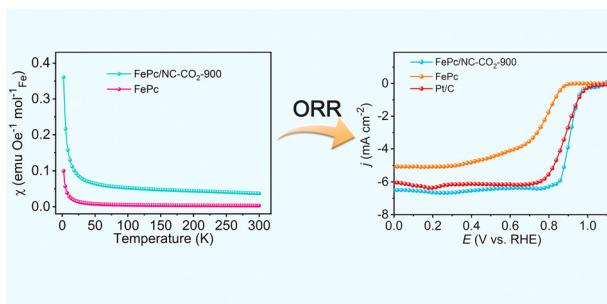
Sizhuo Feng, Yan Tu, Qingfeng Zhang,* Lingbin Xie, Shujuan Liu,* Longlu Wang* and Qiang Zhao*

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**Copper-catalyzed three-component radical aminoazolation of vinylarenes with N-fluorobenzenesulfonimide and trimethylsilylazole derivatives**

Qingbing Yuan,* Caiqiong Wu, Yonghu Bao, Zengming Huang, Hua Wang, Yun Wei and Shaowu Wang

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**Tuning the spin state of FePc via selectively defected carbon for enhanced oxygen reduction reaction**

Yanqiu Wang, Jianye Liu, Wenhao He, Zhongliang Tian, JiaJin Yang* and Jie Li*

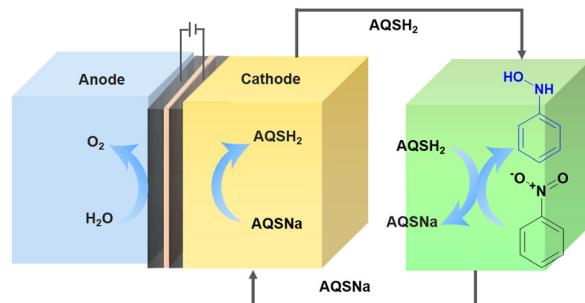


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Reduction of nitrobenzene to phenylhydroxylamine with anthraquinone-2-sulfonic sodium as an electron mediator

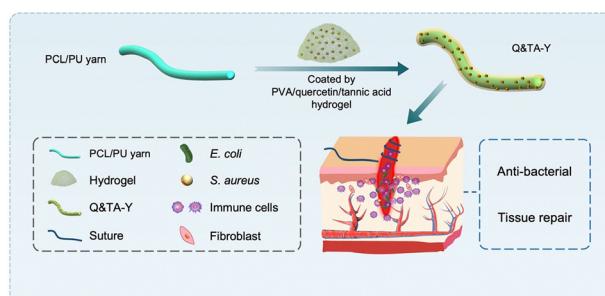
Shengqi Chen, Ben Chang, Chuchu Cheng, Shihua Ye, Xiaolei Qu, Qing-Nan Wang and Can Li*



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Bioactive microfiber yarns serving as sutures with antibacterial and pro-tissue repair capabilities

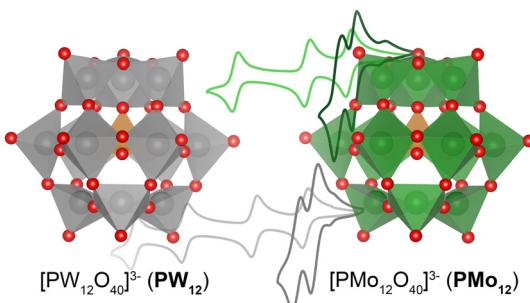
Hao Zhang, Xiaopei Zhang, Manfei Fu, Hongshan Yang, Kuanjun Fang, Yuanfei Wang* and Tong Wu*



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Consequences of substituting framework metals in polyoxometalates on H-atom uptake: proton-coupled electron transfer at a Keggin-type polyoxomolybdate

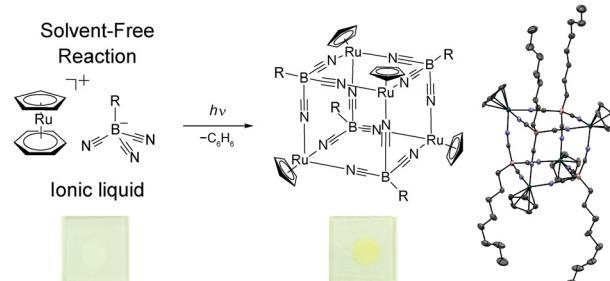
Zhou Lu and Ellen M. Matson*



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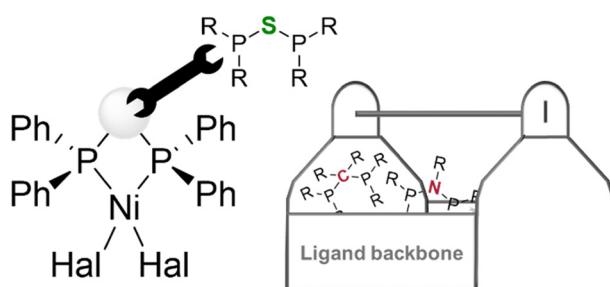
Solvent-free photochemical formation of cubane-type Ru complexes from organometallic ionic liquids with cyanoborate anions

Haruka Koshino, Zi Lang Goo, Kunihisa Sugimoto and Tomoyuki Mochida*



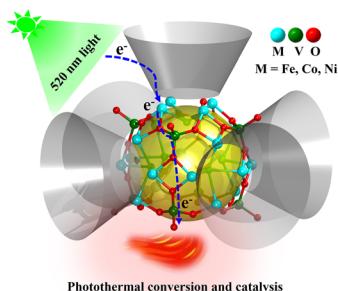
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**Short-bite PSP-type ligands: coordination chemistry and ligand rearrangement reactions**

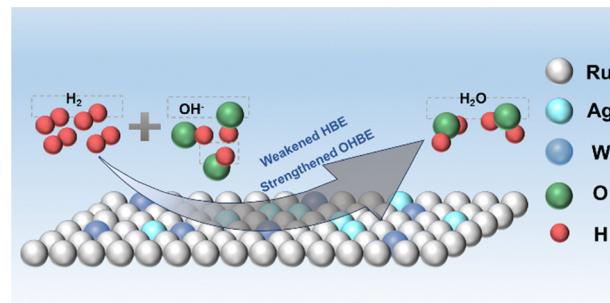
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**Thiacalixarene-supported M_{20}V_8 ($\text{M} = \text{Fe, Co, Ni}$) square pyramid nanocages for visible light photothermal catalysis**

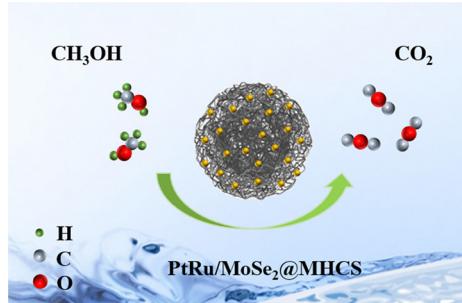
Qiqi Li, Yuhang Zou, Dongao Mao, Hongrui Tian, Xinxin Hang* and Yanfeng Bi*

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**Carbon-supported uniform RuAgW nanoparticles with high activity and CO resistance toward alkaline hydrogen oxidation**

Hao Yang, Chunxiao Chai, Mengting Chen, Yongpeng Li, Zhongyu Qiu, Tiantian Li, Jiahuan Li, Desheng Wang, Shuo Han, Mengyu Yang, Xiaoxia Gao, Rui Gao, Yang Lv and Yujiang Song*

9274

**MoSe₂ promoted PtRu catalysis for efficient methanol electrooxidation**

Yang Zhou, Wei Qiao, Yajing Xie, Yun Yang* and Ligang Feng*

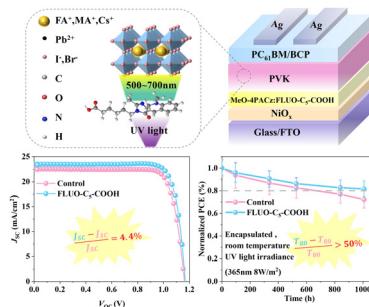


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Fluorescent hole-selective contact for ultraviolet-stable inverted perovskite solar cells

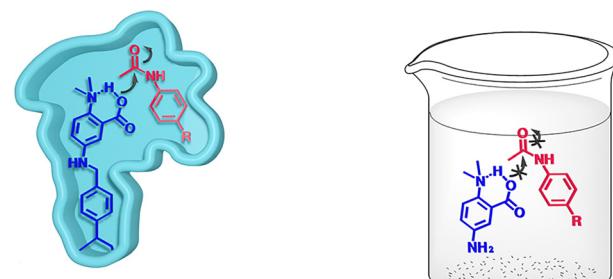
Nai Wang, Gongnv Xu, Tonghui Guo, Junjun Jin, Zhenkun Zhu, Lin Li, Jinhua Li, Yanhua Yu* and Qidong Tai*



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Artificial amidase with modifiable active sites and designable substrate selectivity for aryl amide hydrolysis

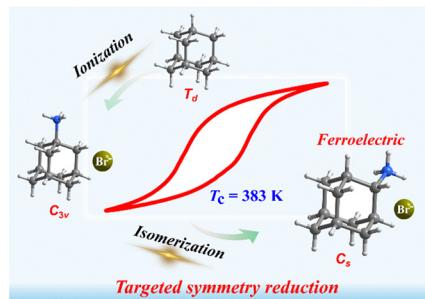
Mohan Lakavathu and Yan Zhao*



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Unlocking ferroelectricity in a metal-free adamantan derivative via targeted symmetry reduction

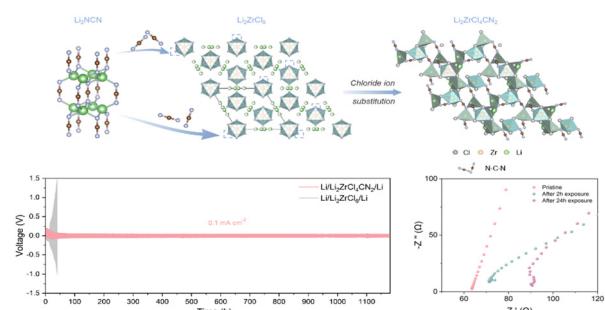
Wei-Jian Xu,* Denis Alikin, Zi-Luo Fang, Konstantin Romanyuk, Luis Verissimo, Pavel Zelenovskii, Wei-Xiong Zhang,* Andrei Kholkin* and João Rocha*



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Boosting lithium compatibility and air stability of halide electrolytes through cyanamide substitution

Jiawei Zong, Jiacong Li, Yuge Cao, Hui Bi, Linlin Wang and Fuqiang Huang*

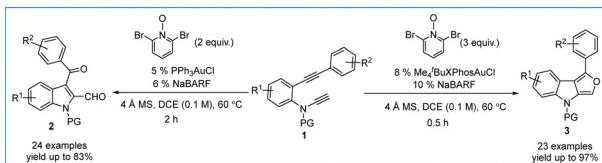


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Gold-catalyzed ligand-controlled annulation for the construction of indoles and furoindoles

Xiaoni Jia, Yuanmeng Kan, Wenguang Li, Weiguang Kong, Wenchao Gao, Ming Chen,* Long-Wu Ye* and Ting Li*



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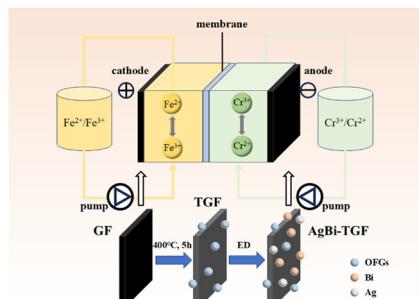
*Tautomerization**~Design strategy for panchromatic small molecules~***Design strategy for tautomerization-based small panchromatic molecules**

Masaru Tanioka,* Fumino Kitamura, Masaya Oyama, Shiyu Chen, Yuki Ohishi, Tsuyoshi Yamada and Yuji Matsuya*

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A silver–bismuth bimetallic functionalized negative electrode for iron–chromium flow batteries

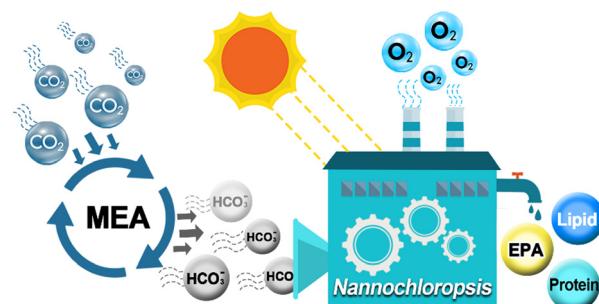
Runze Li, Yang Guo, Han Yan, Shiling Yuan and Meng Lin*



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Monoethanolamine and microalgae collaboration enhances carbon sequestration and accumulation of high-value eicosapentaenoic acid

Qingling Liu, Zhiyong Liu,* Qian Shen, Yuyong Hou, Bicheng Deng, Maliheh Safavi, Xuewu Guo and Lei Zhao*

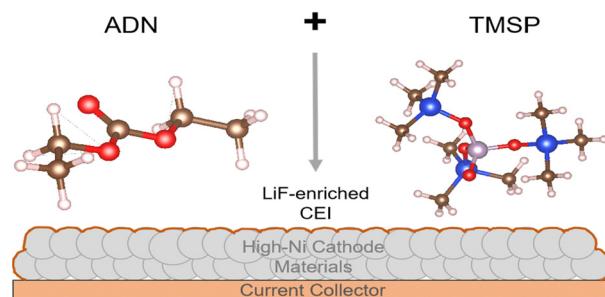


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Dual electrolyte additives to achieve high-rate cycling performance of lithium-ion batteries with a high nickel cathode

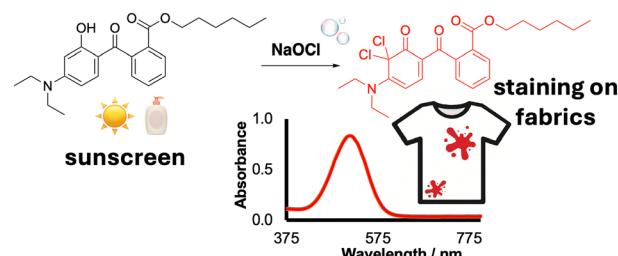
Xingxing Jiao, Yifan Yao, Yuxun Yuan, Xieyu Xu, Dongyu Liu, Andrey S. Vasenko, Zhongxiao Song* and Yangyang Liu*



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An unexpected chlorination of an organic sunscreen

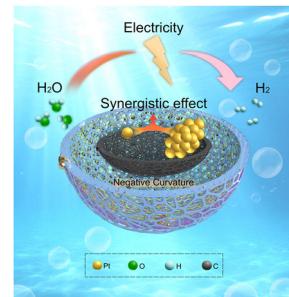
Lydia G. Smith, Dalila Di Leva, Lloyd A. Shaw, Eric Hughes, Alan M. Kenwright, Andrew Beeby, Mark R. Wilson and Clare S. Mahon*



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Highly dispersed Pt anchored on hollow carbon nanobowls: negative curvature enhances electrocatalytic hydrogen evolution

Yuxing Ma, Rong Hua, Youfeng Pan, Xin Li, Mengxue Ma, Mengying Wang, Haifen Ding and Haoquan Zheng*



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A uranyl-based luminescent dosimeter for ultralow-dose tracking of UV and X-ray radiation

Qinyan Gu, Ji Lei, Wenjie Deng, Heyao Zhang, Zhi-Hui Zhang, Huangjie Lu,* Baowei Hu and Jian Xie*



CORRECTION

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Correction: pH-Triggered nanoreactors as oxidative stress amplifiers for combating multidrug-resistant biofilms

Lei Huang, Shangming Jiang, Bo Cai, Guobin Wang, Zheng Wang* and Lin Wang*

