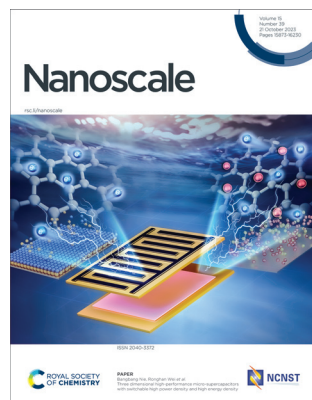


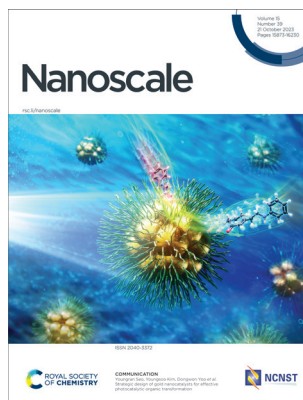
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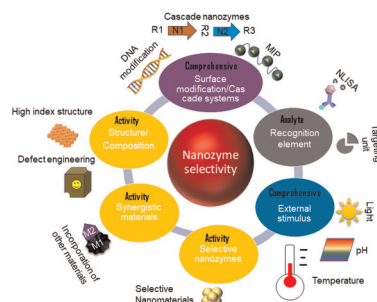
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15885

A comprehensive exploration of the latest innovations for advancements in enhancing selectivity of nanozymes for theranostic nanoplatforms

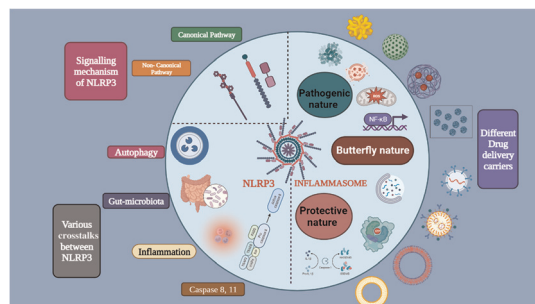
Dan Li,* Tuocen Fan and Xifan Mei*



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Functionalized nanomaterials targeting NLRP3 inflammasome driven immunomodulation: Friend or Foe

Kanika and Rehan Khan*



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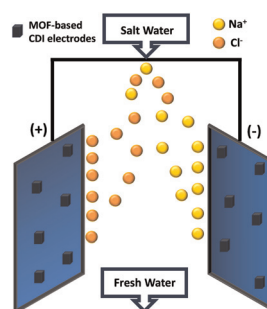


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A mini review on metal–organic framework-based electrode materials for capacitive deionization

M. Shahnawaz Khan, Zhi Yi Leong, Dong-Sheng Li, Jianbei Qiu, Xuhui Xu and Hui Ying Yang*

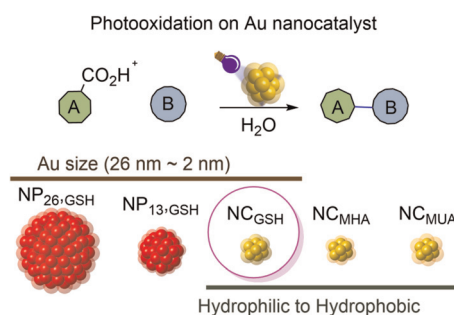


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Strategic design of gold nanocatalysts for effective photocatalytic organic transformation

Jongchan Kim, Jeonghyeon Lee, Hyunwoo Choi, Juhee Ha, Minsoo Cheon, Youngran Seo,* Youngsoo Kim* and Dongwon Yoo*

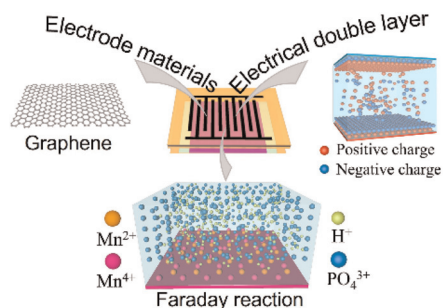


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Three dimensional high-performance micro-supercapacitors with switchable high power density and high energy density

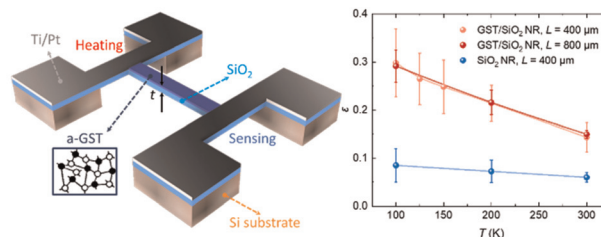
Kuangbing Wang, Bangbang Nie,* Ni Su, Benkun Lv, Huiqian Song, Guochen Qi, Yudong Zhang, Jingjiang Qiu and Ronghan Wei*



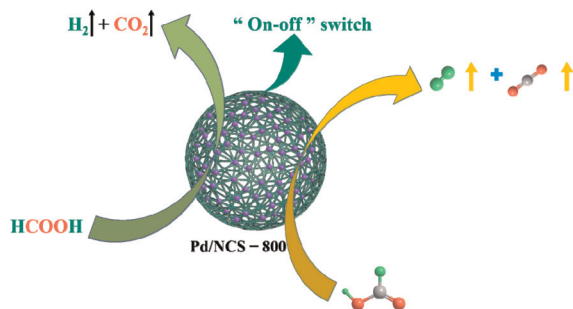
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Enhanced far-field coherent thermal emission using mid-infrared bilayer metasurfaces

Sichao Li, Robert E. Simpson and Sunmi Shin*



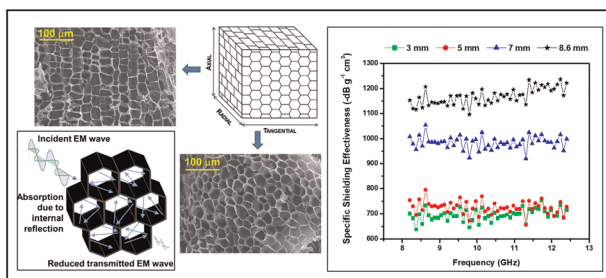
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Selective and controlled H_2 generation upon additive-free HCOOH dehydrogenation over a Pd/NCS nanocatalyst

Qing Zhang, Yanlan Wang, Xiaotao Jin and Xiang Liu*

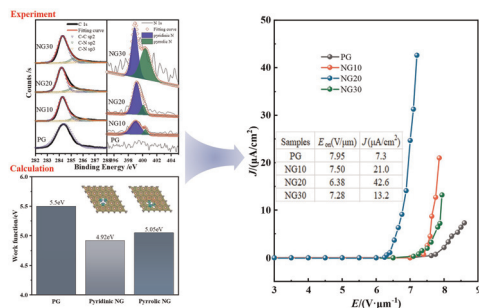
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Ultra-light-weight microwave X-band EMI shielding or RAM material made from sustainable pyrolysed cork templates

Robert C. Pullar,* Rui M. Novais, Ana. P. F. Caetano, K. A. Krishnakumar and Kuzhichalil P. Surendran

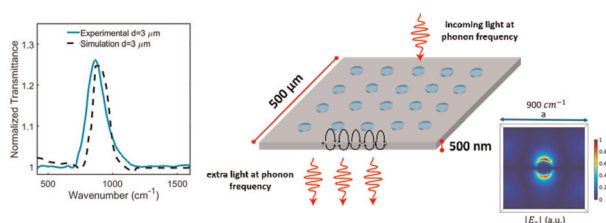
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Tuneable effects of pyrrolic N and pyridinic N on the enhanced field emission properties of nitrogen-doped graphene

Guodong Meng,* Fuzhi Zhan, Junyi She, Jinan Xie, Qinren Zheng, Yonghong Cheng and Zongyou Yin*

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Extraordinary optical transmittance generation on Si_3N_4 membranes

Salvatore Macis,* Maria Chiara Paolozzi, Annalisa D'Arco, Federica Piccirilli, Veronica Stopponi, Marco Rossi, Fabio Moia, Andrea Toma and Stefano Lupi

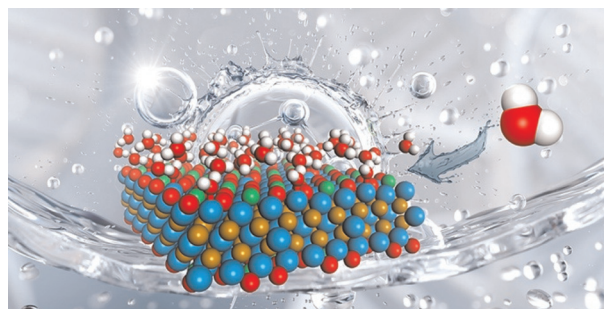


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First principles insights into stability of defected MXenes in water

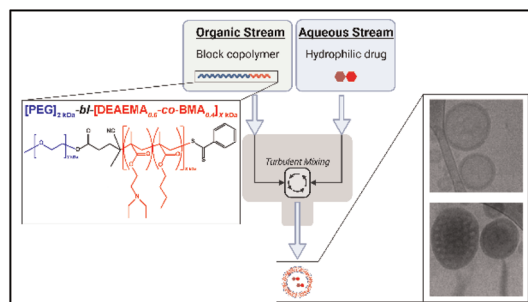
Haohong Song and De-en Jiang*



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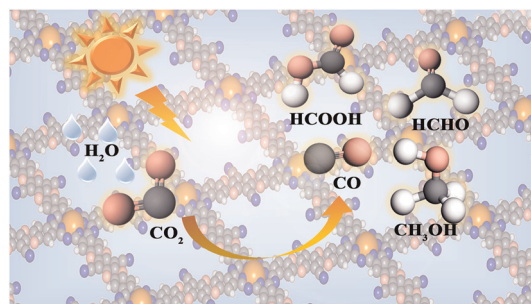
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Iron/cobalt/nickel regulation for efficient photocatalytic carbon dioxide reduction over phthalocyanine covalent organic frameworks

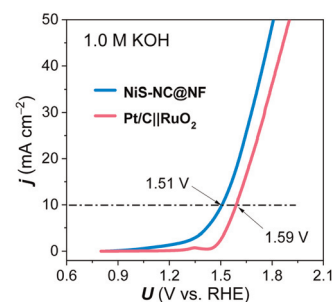
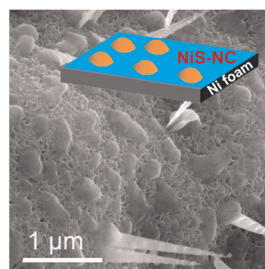
Qiqi Zhang, Meiyang Chen, Yanjie Zhang, Yuansong Ye, Diwen Liu,* Chao Xu, Zuju Ma, BenYong Lou,* Rusheng Yuan and Rongjian Sa*



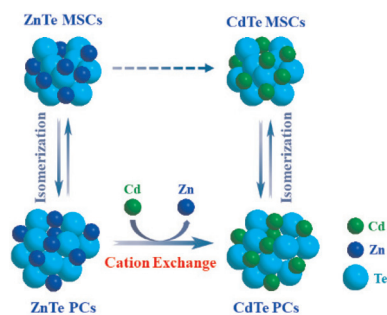
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Constructing S-deficient nickel sulfide/N-doped carbon interface for improved water splitting activity

Zhicheng Liu, Hongrui Jia, He Wang, Yaqun Wang* and Guoxin Zhang*



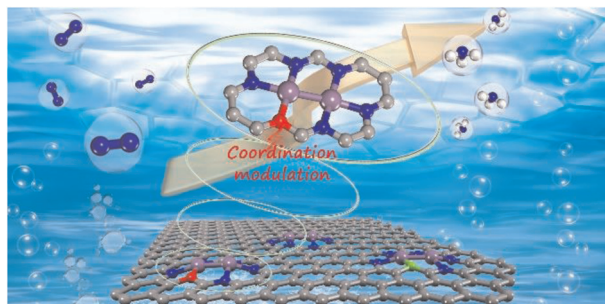
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CdTe magic-size cluster synthesis *via* a cation exchange method and conversion mechanism

Zhuohan Lin, Xin Zhang, Xue Zhang, Qianqian Song and Yan Li*

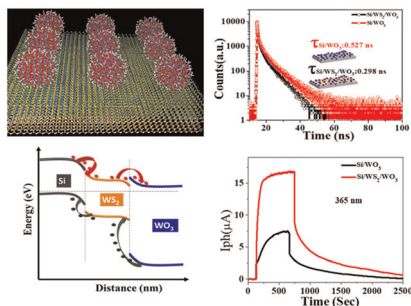
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Tailoring the coordination environment of double-atom catalysts to boost electrocatalytic nitrogen reduction: a first-principles study

Jiarui Wu, Donghai Wu, Haobo Li, Yanhao Song, Wenjing Lv, Xiaohu Yu* and Dongwei Ma*

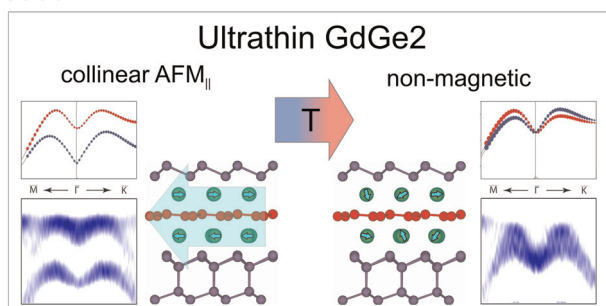
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WO₃-NP-activated WS₂ layered heterostructures for efficient broadband (254 nm–940 nm) photodetection

Sukhendu Maity, Krishnendu Sarkar and Praveen Kumar*

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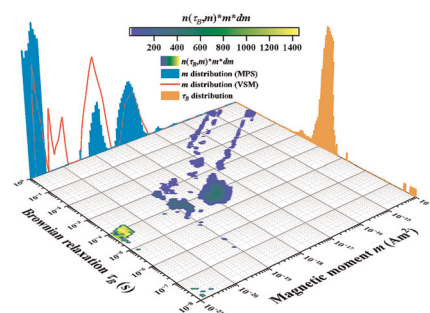
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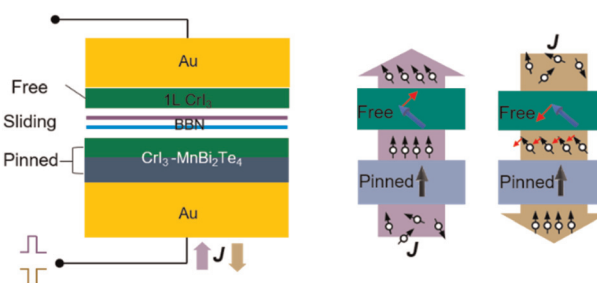
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Full electrical control of multiple resistance states in van der Waals sliding multiferroic tunnel junctions

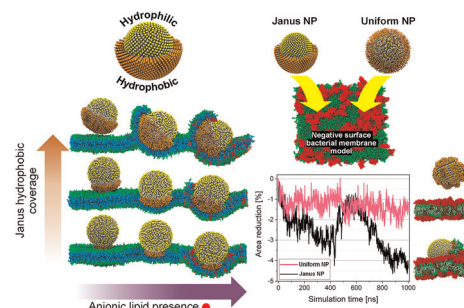
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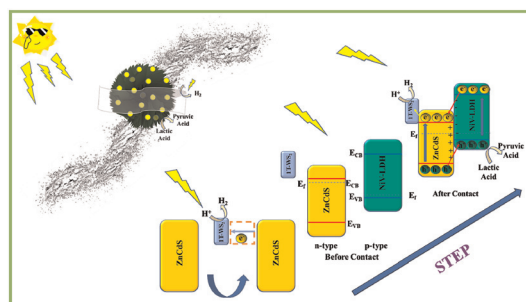
Danh Nguyen, James Wu, Patrick Corrigan and Ying Li*



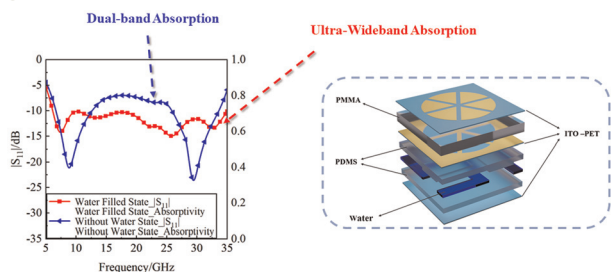
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A 1T-WS₂ "electron pump" regulates charge transfer over ZnCdS/NiV-LDH p-n heterostructures for enhanced photocatalytic hydrogen evolution

Jingzhi Wang, Mei Li* and Zhiliang Jin*



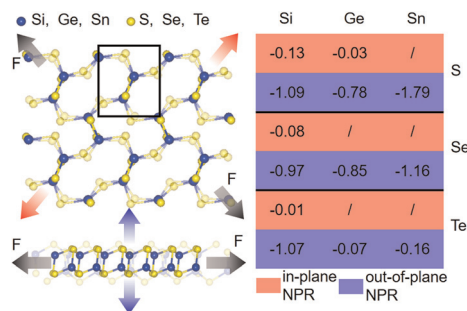
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A reconfigurable ultra-broadband transparent absorber combined with ITO and structural water

Yang Wang, Helin Yang,* Jiong Wu, Yuejie Yang, Jing Jin, Xuxing Geng and Xiaojun Huang*

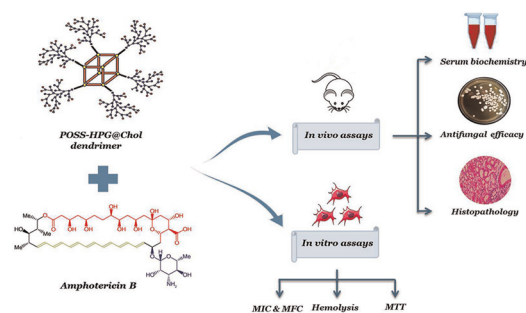
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High out-of-plane negative Poisson's ratios and strong light harvesting in two-dimensional SiS_2 and its derivatives

Haidi Wang, Tao Li, Zhao Chen, Weiduo Zhu, Wei Lin, Huimiao Wang, Xiaofeng Liu* and Zhongjun Li*

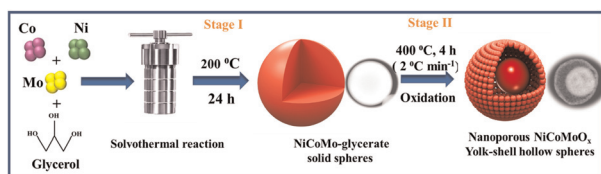
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Dendritic hybrid materials comprising polyhedral oligomeric silsesquioxane (POSS) and hyperbranched polyglycerol for effective antifungal drug delivery and therapy in systemic candidiasis

Mahboobeh Jafari, Samira Sadat Abolmaali, Sedigheh Borandeh, Haniyeh Najafi, Zahra Zarehshabadi, Omid Koohi-Hosseinabadi, Negar Azarpira, Kamiar Zomorodian* and Ali Mohammad Tamaddon*

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Fabrication of ternary NiCoMoO_x with yolk-shell hollow structure as a positive electrode material for high-performance electrochemical capacitor applications

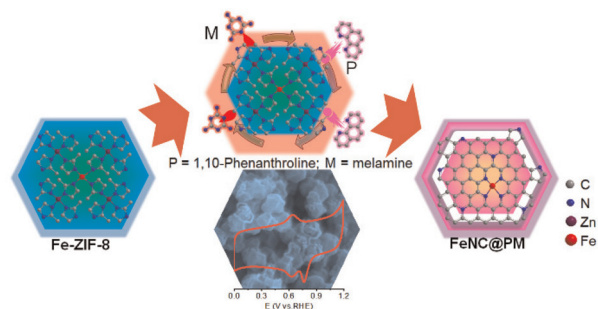
Fatemeh Heidari Gourji,* Tharmakularasa Rajaramanan, Øyvind Frette and Dhayalan Velauthapillai*



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Efficient yolk-shelled Fe–N–C oxygen reduction electrocatalyst via N-rich molecular-guided pyrolysis

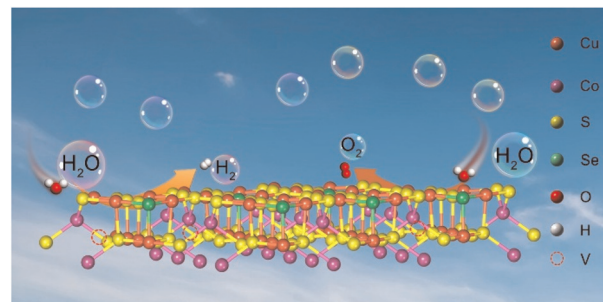
Qingxue Lai,* Hongmei Zheng, Wanying Zhang, Yi Sheng, Luanjie Nie and Jing Zheng



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Se-doping-induced sulfur vacancy engineering of CuCo_2S_4 nanosheets for enhanced electrocatalytic overall water splitting

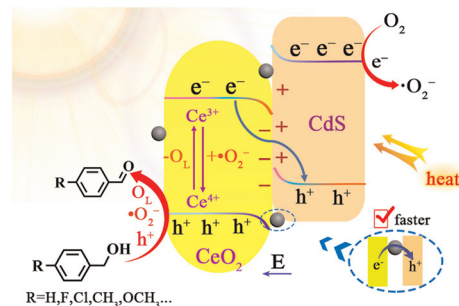
Bianli Zhang, Xingyue Qian, Hui Xu, Lin Jiang, Jiawei Xia, Haiqun Chen* and Guangyu He*



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The Mars–Van Krevelen cycle and non-noble metal Ni jointly promoting Z-scheme charge transfer: a study on the photothermal synergy effect applied in selectively oxidizing aromatic alcohols

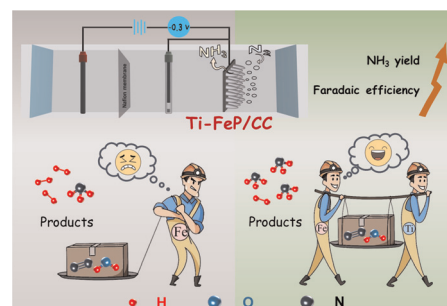
Gaoli Chen, Jing Li, Shu Gui, Ya Wang, Sujuan Zhang,* Zhongliao Wang, Xiuzhen Zheng, Sugang Meng, Chaohui Ruan and Shifu Chen*



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Ti-doped iron phosphide nanoarrays grown on carbon cloth as a self-supported electrode for enhanced electrocatalytic nitrogen reduction

Senhao Wang, Yuan Wang,* Tian C. Zhang, Xu Ji and Shaojun Yuan*



CORRECTION

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Correction: Accelerating copolymer inverse design using monte carlo tree search

Tarak K. Patra,* Troy D. Loeffler and Subramanian K. R. S. Sankaranarayanan*

