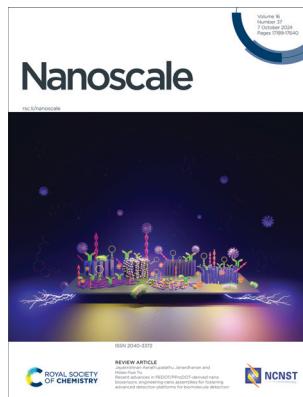


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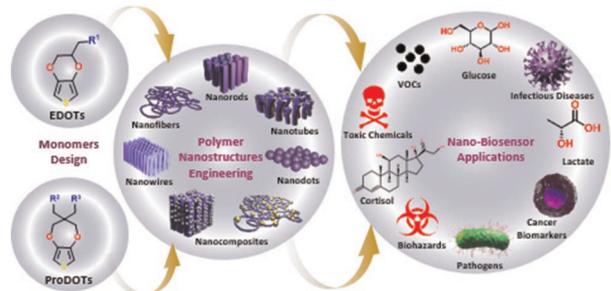


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Yuelin Yang, Haoyang Zhang, Yalei Deng, Xinkle Kong* and Yuanyuan Wang*



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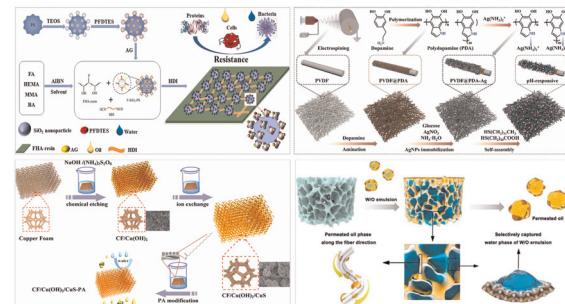
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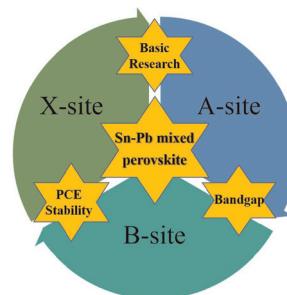
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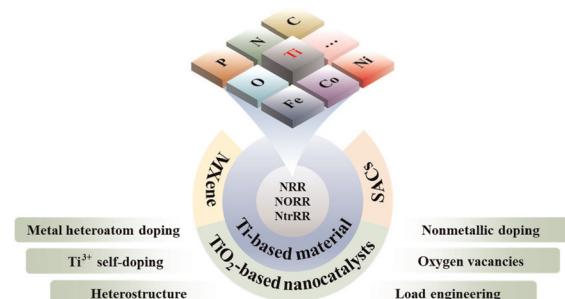
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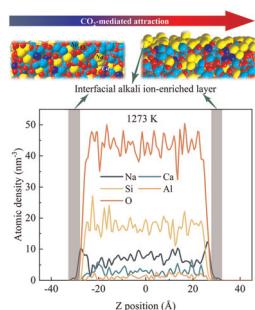
Mechanistic understanding of CO₂ reduction and evolution reactions in Li–CO₂ batteries

Lang Zhou, Yaohui Huang, Yuzhe Wang, Bo Wen, Zhuoliang Jiang and Fujun Li*



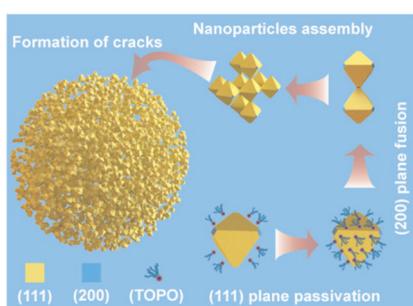
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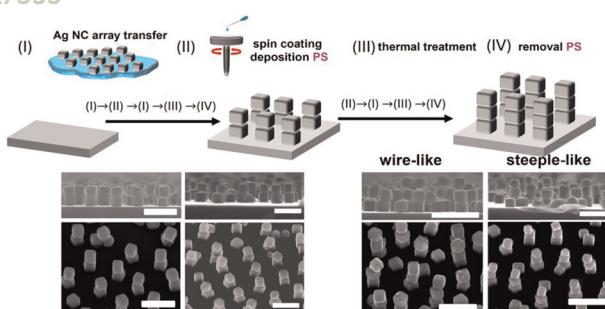
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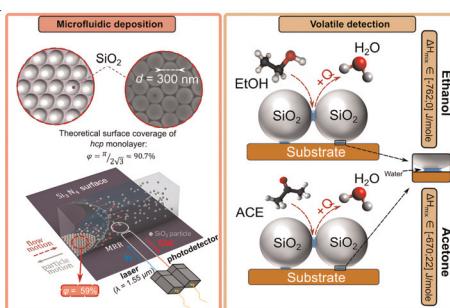
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**Convective assembly of silica colloidal particles inside photonic integrated chip-based microfluidic systems for gas sensing applications**

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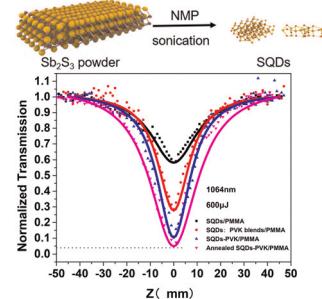


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Polymer functionalized antimony sulfide quantum dots for broadband optical limiting

Guangwei Li, Qian Chen, Ningning Dong, Haidong He,* Jun Wang* and Yu Chen*

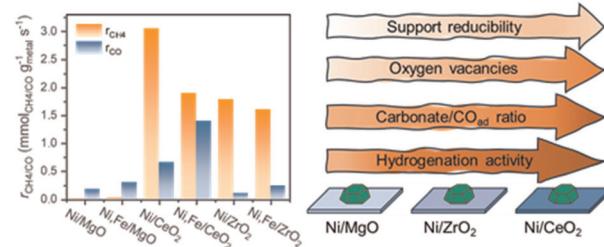


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Support effect on Ni-based mono- and bimetallic catalysts in CO₂ hydrogenation

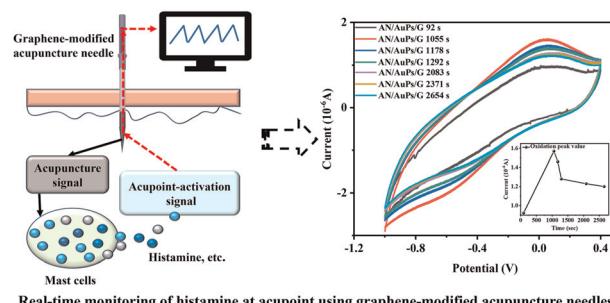
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Highly sensitive biosensors for real-time monitoring of histamine at acupoint PC6 in rats based on graphene-modified acupuncture needles

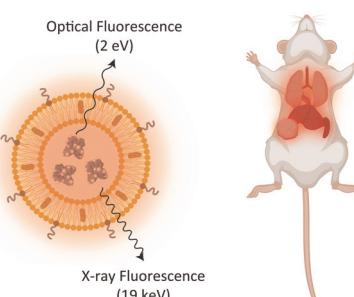
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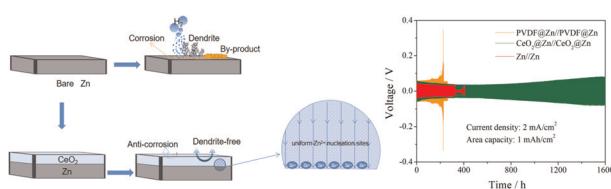
Liposome biodistribution mapping with *in vivo* X-ray fluorescence imaging

Giovanni Marco Saladino,* Po-Han Chao, Bertha Brodin, Shyh-Dar Li and Hans Martin Hertz



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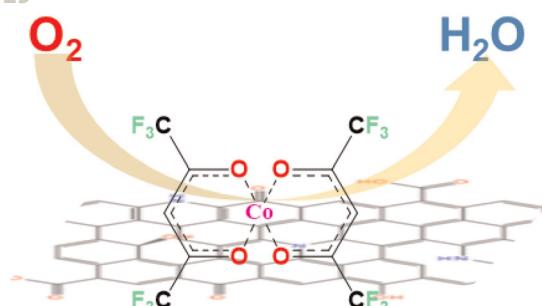
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Achieving a balance of rapid Zn²⁺ desolvation and hydrogen evolution reaction inertia at the interface of the Zn anode

Xiaofen Xiao,* Deqiang Wang, Guangyi Xu, Zhuxiang Zhang, Jun Li, Shun Wang, Yifei Yuan, Chuangang Hu and Huile Jin*

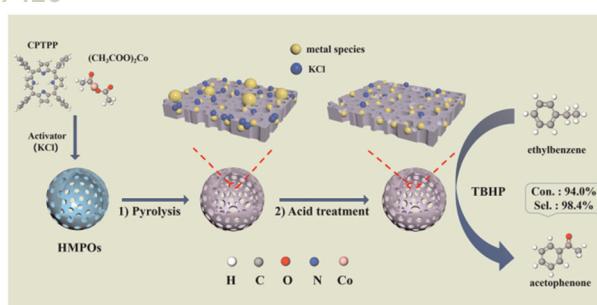
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Atomically dispersed Co-based species containing electron withdrawing groups for electrocatalytic oxygen reduction reactions

Yunseok Shin, Sunggu Park, Hanbi Jang, Gogyun Shin, Dongha Shin and Sungjin Park*

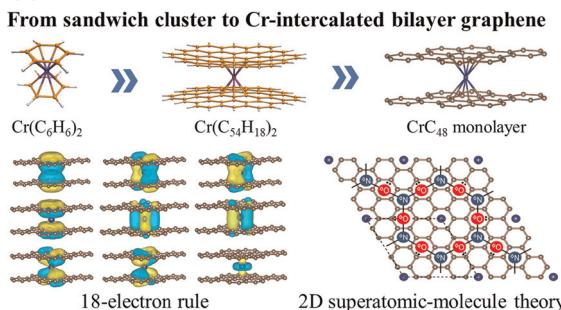
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Cobalt and nitrogen co-doped hollow periodic mesoporous organosilica spheres activated by potassium chloride for selective oxidation of ethylbenzene

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Modulating the bandgap of Cr-intercalated bilayer graphene *via* combining the 18-electron rule and the 2D superatomic-molecule theory

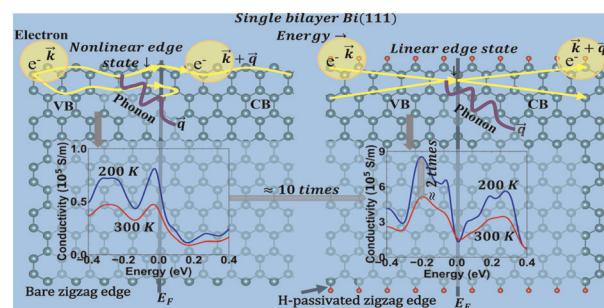
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Electron–phonon interactions at the topological edge states in single bilayer Bi(111)

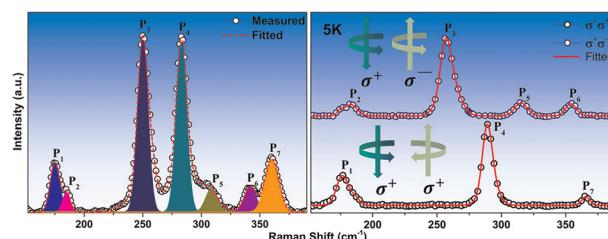
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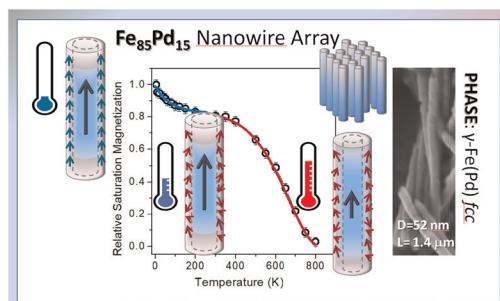
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Magnetism of metastable γ-Fe₈₅Pd₁₅ nanowire arrays across an unusually broad temperature range (5 K to 800 K)

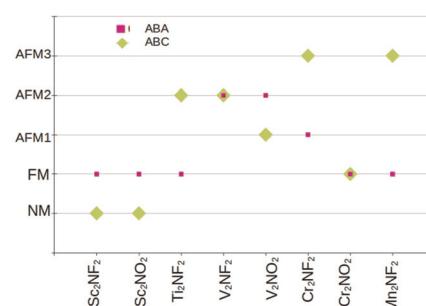
Paula G. Bercoff,* Soledad Aprea, Eva Céspedes, José Luis Martínez, Silvia E. Urreta and Manuel Vázquez



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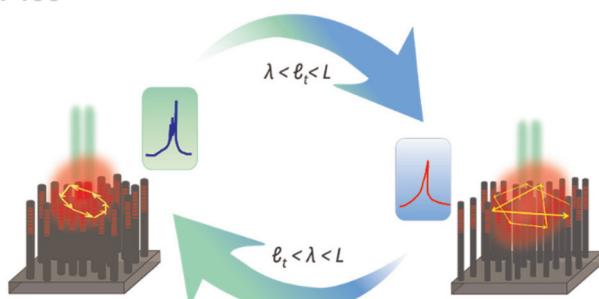
Tunable magnetism in nitride MXenes: consequences of atomic layer stacking

Himangshu Sekhar Sarmah* and Subhradip Ghosh*



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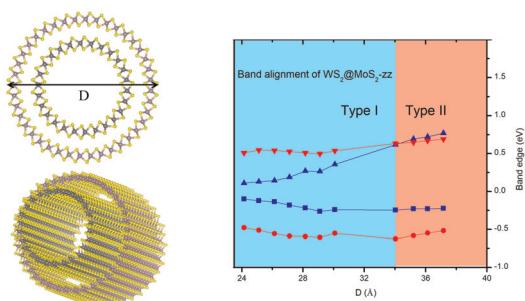
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Controlling the random lasing action from GaAs/AlGaAs axial heterostructure nanowire arrays

Bingheng Meng, Xuanyu Zhang, Yubin Kang, Xuanchi Yu, Puning Wang, Shan Wang, Jilong Tang, Qun Hao,* Zhipeng Wei* and Rui Chen*

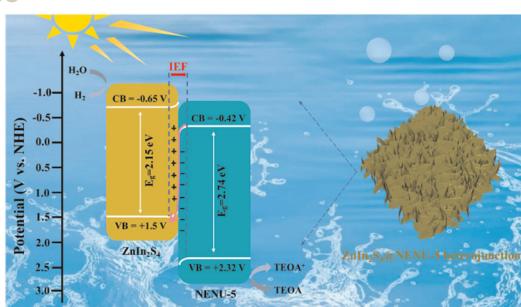
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Band alignment of one-dimensional transition-metal dichalcogenide heterotubes

Mei Ge, Fanmin Zeng, Zixuan Wang, Jiang-Jiang Ma* and Junfeng Zhang*

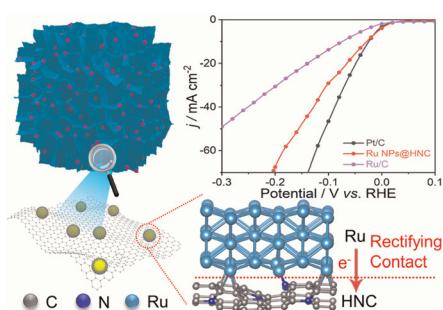
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Construction of Z-scheme heterojunction interfacial charge transfer pathways in ZnIn₂S₄@NENU-5 for photocatalytic hydrogen evolution

Xu Kong, Kai Wang,* Hai Yu and Zhiliang Jin

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Highly dispersed ultrafine Ru nanoparticles on a honeycomb-like N-doped carbon matrix with modified rectifying contact for enhanced electrochemical hydrogen evolution

Mingxin Pang, Yu Fang, Lizhang Chen, Ruoxu Sun, Xinyu Li, Huan Pang, Songtao Zhang, Lin Xu,* Dongmei Sun* and Yawen Tang

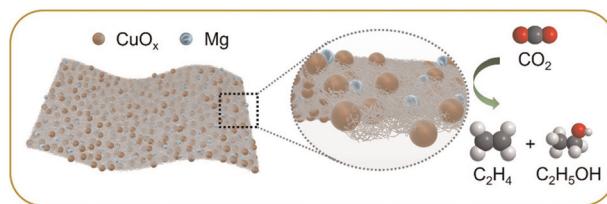


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Design and synthesis of magnesium-modified copper oxide nanosheets as efficient electrocatalysts for CO₂ reduction

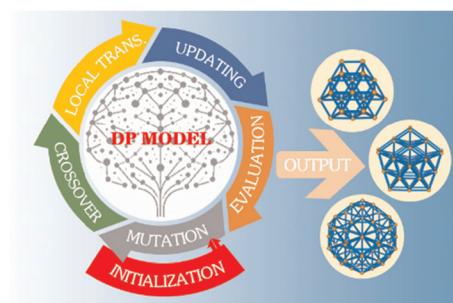
Xijuan Li, Zhiqian Li, Zining Zhang, Yuxiao Zhao, Qi Fang, Jing Tang* and Jianping He*



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Hierarchical structures and magnetism of Co clusters: a perspective from integration of deep learning and a hybrid differential evolution algorithm

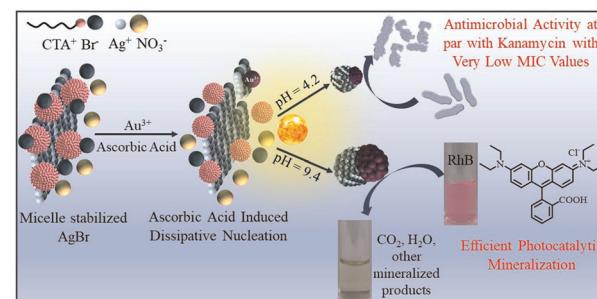
Wei-Hua Yang, Fang-Qi Yu, Zi-Wen Guo, Rao Huang,* Jun-Ren Chen, Feng-Qiang Gao, Gui-Fang Shao, Tun-Dong Liu and Yu-Hua Wen*



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Sustainable preparation of AuAg alloy@AgBr Janus nanoparticles via dissipative self-assembly for photocatalysis

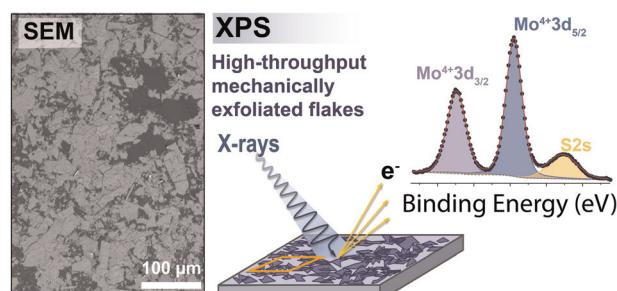
Kanica Sharma, Harjinder Singh, Gurbir Singh, Navdeep Kaur, Pratap Kumar Pati, Kuldeep Singh, Arvind Kumar and Tejwant Singh Kang*



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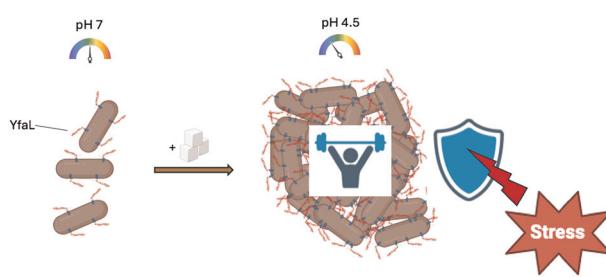
X-ray photoelectron spectroscopy of high-throughput mechanically exfoliated van der Waals materials

Nuria Jiménez-Arévalo,* Carlo Mariani, Fabrice Leardini, Francesco Pandolfi, Ilaria Rago and Riccardo Frisenda*



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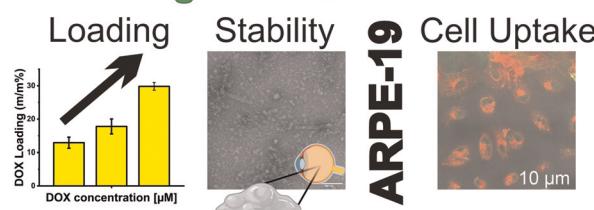


Biophysical insights into sugar-dependent medium acidification promoting YfaL protein-mediated *Escherichia coli* self-aggregation, biofilm formation and acid stress resistance

Yankel Chekli, Stanislas Thiriet-Rupert, Céline Caillet, Fabienne Quilès, Hélène Le Cordier, Emilie Deshayes, Benjamin Bardiaux, Thierry Pétron, Marie Titecat, Laurent Debarbieux, Jean-Marc Ghigo, Grégory Francius, Jérôme F. L. Duval and Christophe Beloin*

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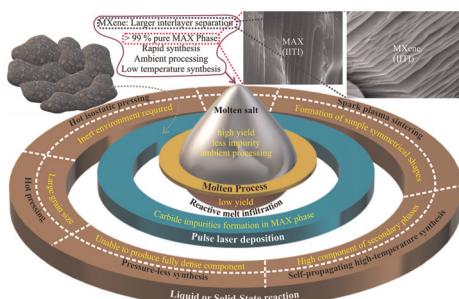
Doxorubicin-loaded DNA Origami



Doxorubicin-loaded DNA origami nanostructures: stability in vitreous and their uptake and toxicity in ocular cells

Anna Klose,* Zahra Gounani, Heini Ijäs, Tatu Lajunen, Veikko Linko* and Timo Laaksonen*

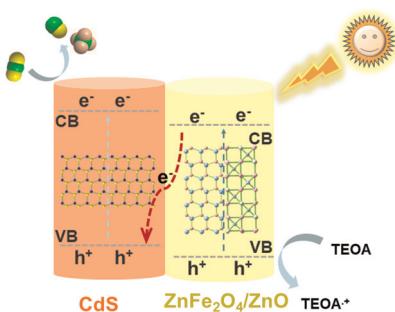
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Molten salt-shielded solid-state synthesis (MS⁵) reaction-driven >99% pure Ti₃AlC₂ MAX phase: effect of MAX phase purity on the interlayer separation of MXenes and Na-ion storage

Ekta Choudhary, Vishesh Manjunath, Ramchandra Kalubarme, Ravindra Jangir* and Rupesh S. Devan*

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Z-scheme heterojunction enhanced photocatalytic performance for CO₂ reduction to CH₄

Bangli Feng, Qian Wang, Peng Liu, Zibo Yuan, Danxuan Pan, Mingfu Ye, Kejing Shen* and Zhifeng Xin*



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Strong sequence–dependence in RNA/DNA hybrid strand displacement kineticsFrancesca G. Smith, John P. Goertz, Križan Jurinović,
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