

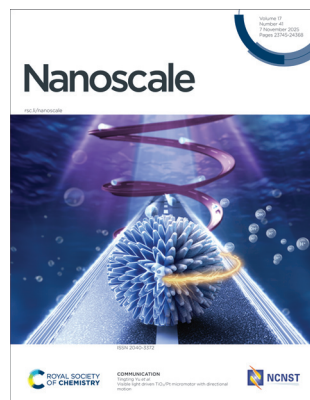
# Nanoscale

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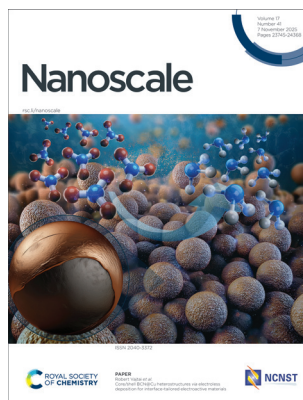
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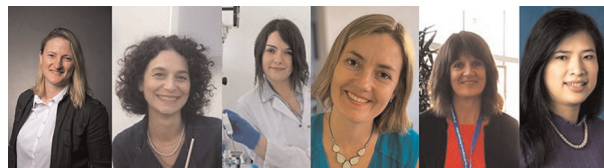
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Lucie Sancey, Ariane Boudier, Elise Lepeltier, Marie-Pierre Rols, Jeanne Leblond Chain and Nguyễn T. K. Thanh

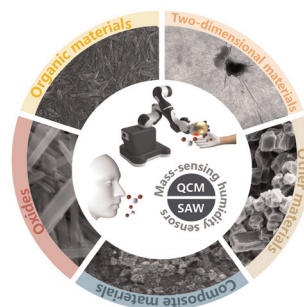


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Shanghai Lao, Zaihua Duan,\* Qiuni Zhao,\* Zhen Yuan, Yadong Jiang and Huiling Tai\*



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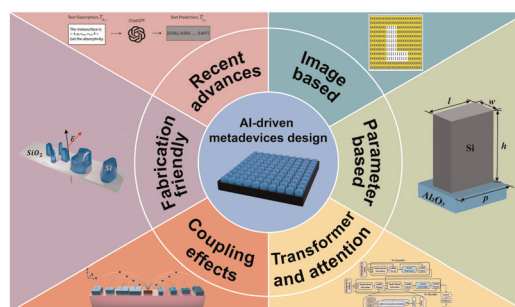
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## REVIEWS

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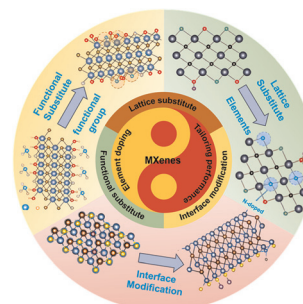
Huanshu Zhang, Lei Kang,\* Sawyer D. Campbell, Jacob T. Young and Douglas H. Werner\*



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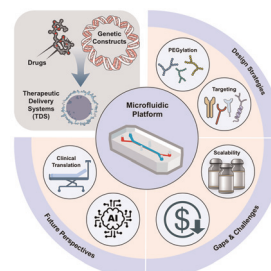
Kunhao Zhang, Yaoyu Wang, Hao Shen, Guozhao Zeng, Yangyang Zhang, Min Yang, Jun Liu, Jiale Li, Xiyang Shen, Miao Zhang, Dingyu Cui, Jingjie Xia, He Liu, Cong Guo, Feng Yu, Bin Quan, Weizhai Bao,\* Kaiwen Sun and Jingfa Li



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Alireza Gharatape, Zahra Niasari-Naslaji, Jeanne Leblond Chain, Nasrollah Tabatabaei\* and Reza Faridi-Majidi\*

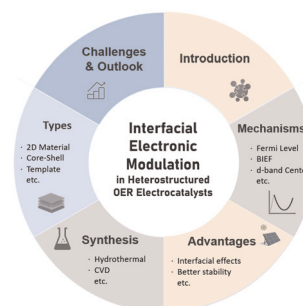


Engineering the Future: Microfluidic Design of Smart Nanocarriers for Overcoming Biological Barriers

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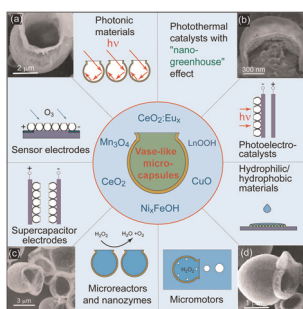
**Interfacial electronic modulation in heterostructured OER electrocatalysts: a review**

Xianglong Dai, Yechen Qian, Zijia Xu, Aini Xiong, Xiaoyang Zhang, Lichao Chen and Wenyao Li\*



## REVIEWS

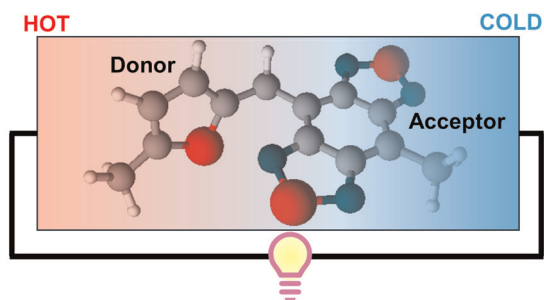
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Valeri Tolstoy,\* Anastasia Golubeva, Tatyana Moskvina, Xinge Hu, Manzar Sohail, Xingda An\* and Le He

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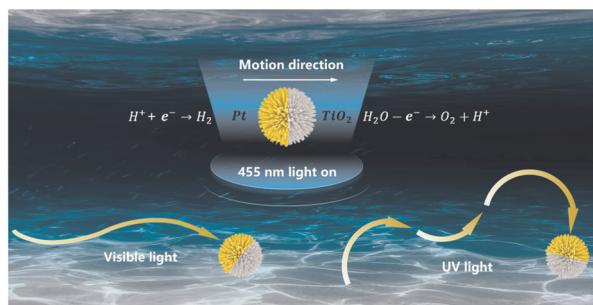


### Donor–acceptor conjugated polymers as high-mobility semiconductors: prospects for organic thermoelectrics

Prithwish Biswas, Lingcheng Kong and Zhiting Tian\*

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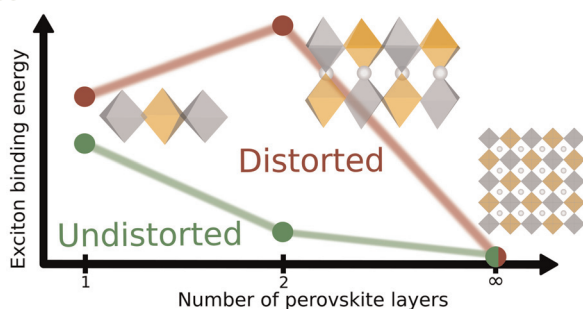
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Xinwen Gao, Zhichao Wang, Yuyang Zhang and Tingting Yu\*

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Pierre Lechiffart,\* Raisa-Ioana Biega and Linn Leppert\*

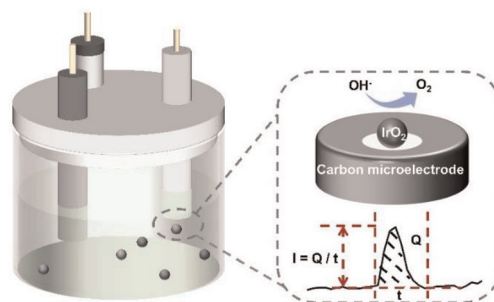


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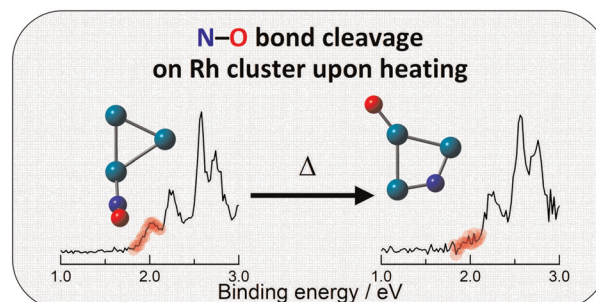
Dianmei Song,\* Jianhua Zhang, Peng Chen, Feng Yang, He Huang, Yan Lu and Dianhua Song\*



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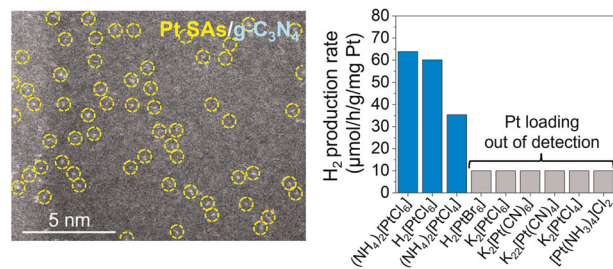
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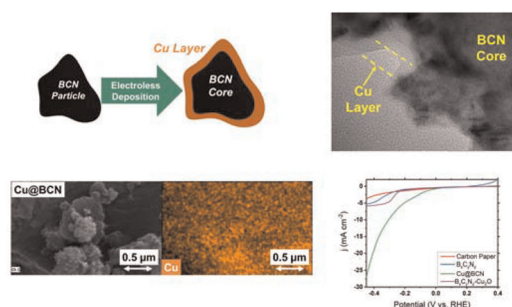


## PAPERS

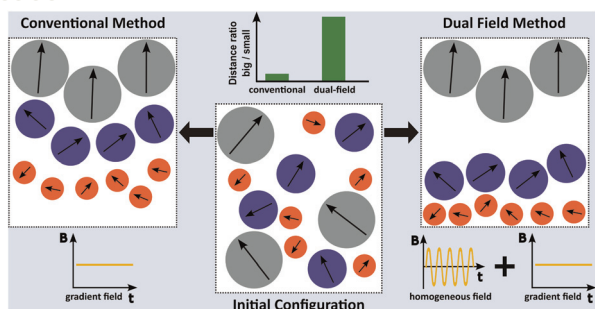
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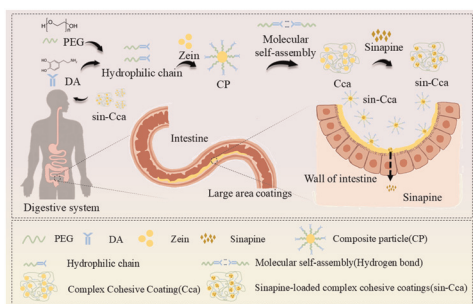
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## Dual field magnetic separation for improved size fractionation of magnetic nanoparticles

Manuel Wolfschwenger,\* Jonathan Leliaert, Aaron Jaufenthaler and Daniel Baumgarten

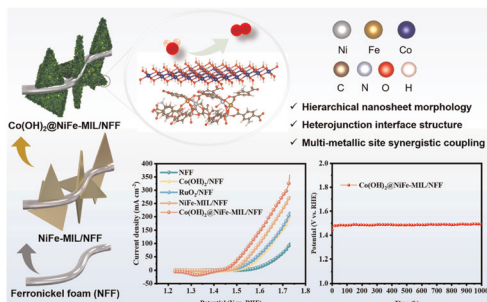
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Youdong Li, Yuanyuan Xu, Guoyan Liu, Li Liang, Xiaofang Liu, Jixian Zhang, Chaoting Wen and Xin Xu\*

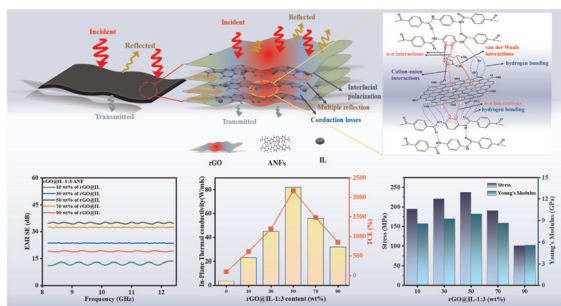
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Xianyu Chu, Li Jing, Yixuan Cheng, Yuhan He, Wei Jiang, Yuanyuan Wu, Yantao Sun, Chunbo Liu,\* Keyu Cui\* and Guangbo Che\*

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## Ionic liquid-functionalized reduced graphene oxide-aramid nanofiber composite films for enhanced thermal conductivity, electromagnetic interference shielding, and mechanical properties

Rimsha Qurratulain, Dineshkumar Mani and Sung-Ryong Kim\*

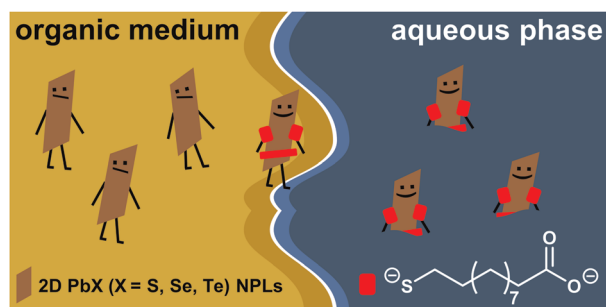


## PAPERS

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**Aqueous phase near-infrared emitters: water transfer of colloidal 2D PbS, PbSe and PbTe nanoplatelets**

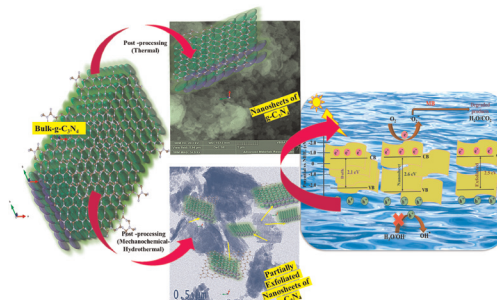
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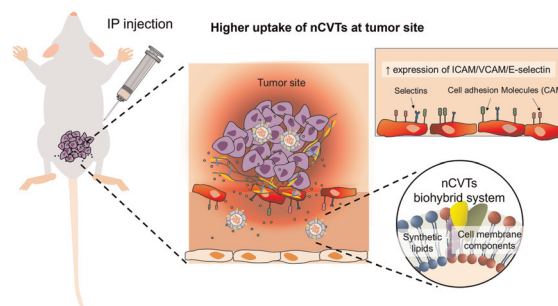
Mounir Gaidi, Mansour Al Ali, Krithikadevi Ramachandran,\* Vijay Vel Rajankumar, Soumya Columbus, Siva Chidambaram and Kais Daoudi\*



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**Nano-biohybrid systems for the targeted delivery of chemotherapeutics**

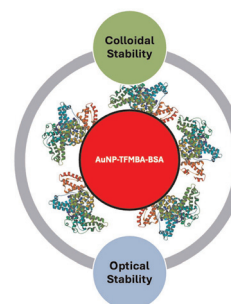
Yi Hsuan Ou, Wei Heng Chng, Ram Pravin Kumar Muthuramalingam, Jeremy Liang, Choon Keong Lee, Jia Ning Nicolette Yau and Giorgia Pastorin\*



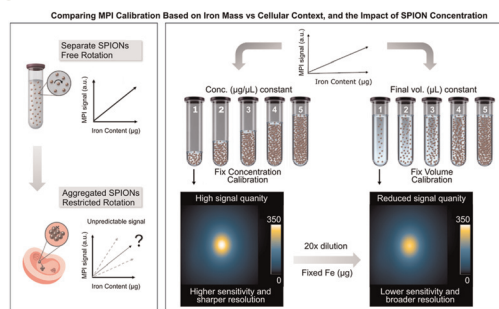
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**Stabilization of SERS nanotags by BSA: insights into protein conformational dynamics across pH environments**

Behnoosh Khodadadi and Mohammad Tavakkoli Yaraki\*



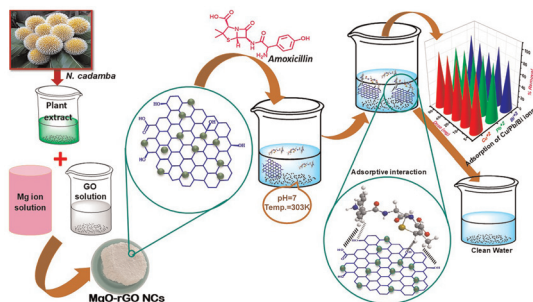
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Elena Ureña Horno,\* Mahon L. Maguire, Serbay Ozkan, Liam O'Brien, Patricia Murray, Harish Poptani and Marco Giardiello\*

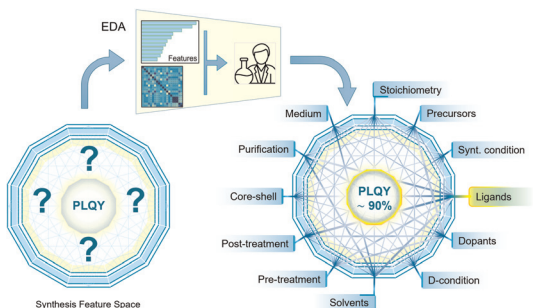
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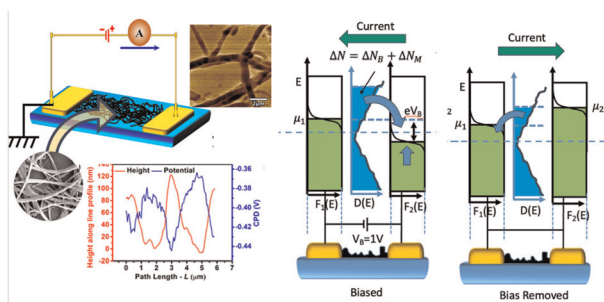
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Sovanlal Mondal, Suman Mandal, Ajoy Mandal, Samik Mallik, Shiv Prakash Verma, Riya Sadhukhan, Subhamay Pramanik and Dipak K. Goswami\*

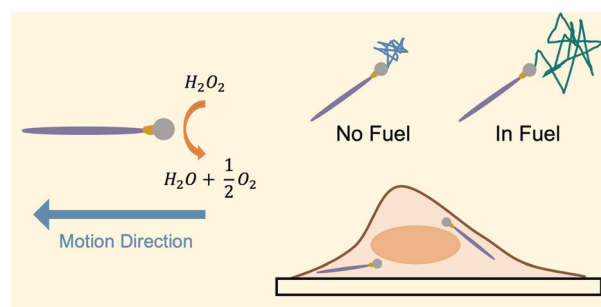


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## Fuel-driven filamentous phage nanomotors

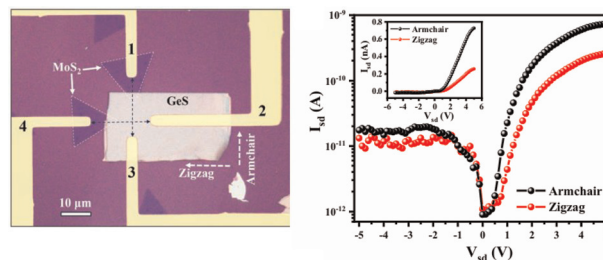
Xi Ding, Shamima Zaman, Emily P. Africa, Bahman Anvari and Elaine D. Haberer\*



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## In-plane anisotropy-driven directional charge transport in van der Waals p-n heterojunctions

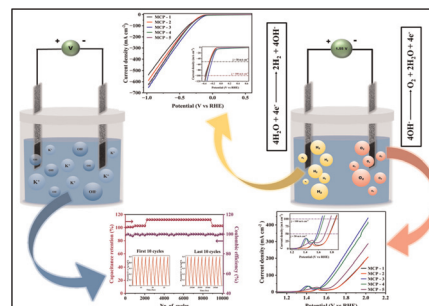
Rahul Paramanik, Tanima Kundu, Soumik Das, Alexey Barinov, Bikash Das, Bipul Karmakar, Sujan Maity, Mainak Palit, Kapildeb Dolui, Sanjoy Kr Mahatha\* and Subhadeep Datta\*



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Harnessing sonochemistry in MnCoP<sub>2</sub>O<sub>7</sub> as trifunctional electrodes for symmetric supercapacitor and electrochemical water splitting applications

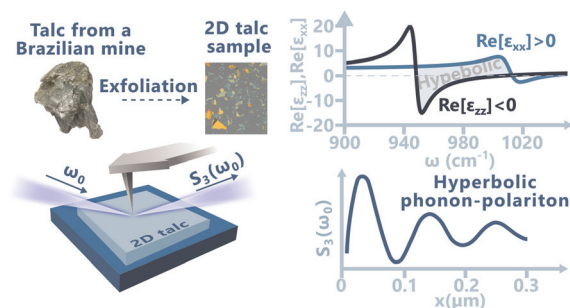
Pavithra Karthikesan, Jayachandran Madhavan and Alagiri Mani\*



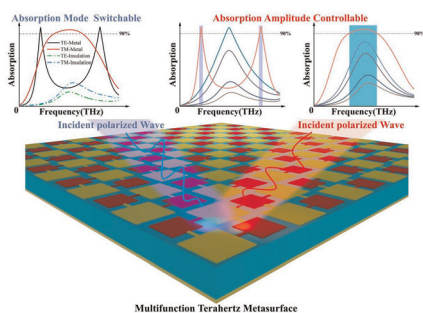
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Flávio H. Feres,\* Francisco C. B. Maia, Shu Chen, Victor Mazzotti, Rafael A. Mayer, Maximilian Obst, Osama Hatem, Lukas Wehmeier, Tobias Nörenberg, Matheus S. Queiroz, J. Michael Klopff, Susanne C. Kehr, Lukas M. Eng, Alisson R. Cadore, Rainer Hillenbrand, Raul O. Freitas and Ingrid D. Barcelos\*



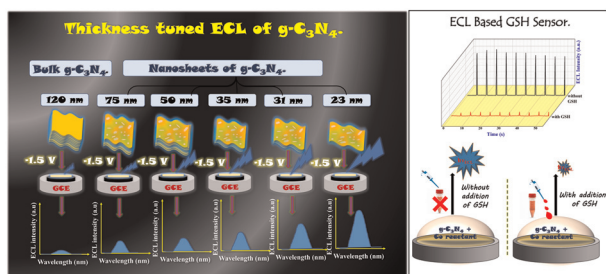
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Weijun Zhou, Xuefeng Qin, Youqi Zhang, Yuxuan Chen, Qian Zhao, Nianxi Xu and Ben-Xin Wang\*

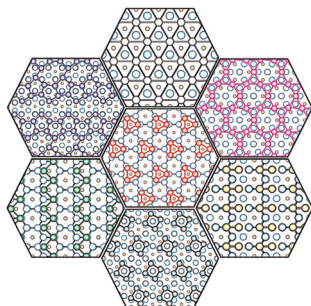
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### Enhanced solid-state electrochemiluminescence platform for selective sensing of glutathione via finely tuned, thickness dependent graphitic carbon nitride nanosheets

Govindha Pandi Rajaram, Irudayasamy Arockia Nivetha and Shanmugam Senthil Kumar\*

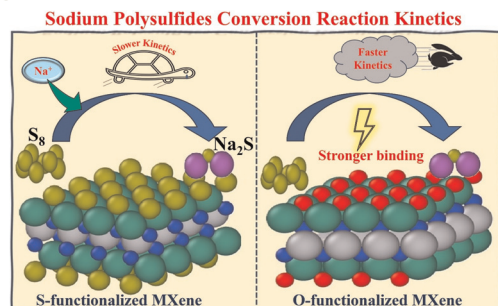
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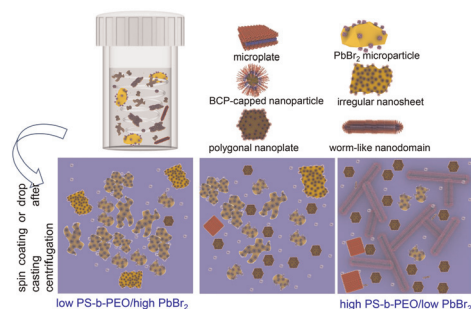
Satheesh Mani and Md Mahbulul Islam\*



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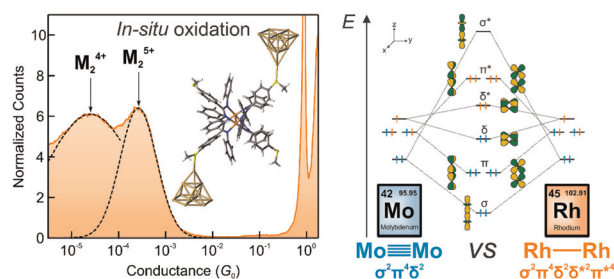
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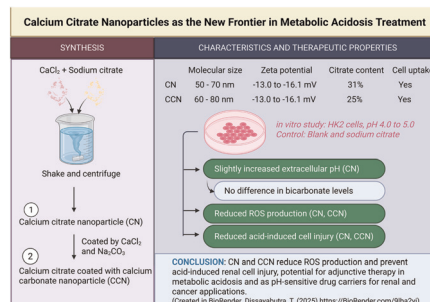
André Mang, Katawoura Beltako, Besa Kadriu, Michael Linseis, Fabian Pauly\* and Rainer F. Winter\*



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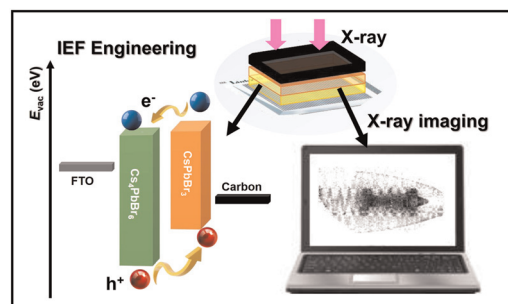
Tipagorn Udomsinsirikul, Weerapat Anegkamol, Thana Thongsricome, Natchanon Rimsueb, Rojrit Rojanathanes, Wittawat Keawsongsaeng, Amornpun Sereemasun, Maroot Keawwongse and Thasinas Dissayabutra\*



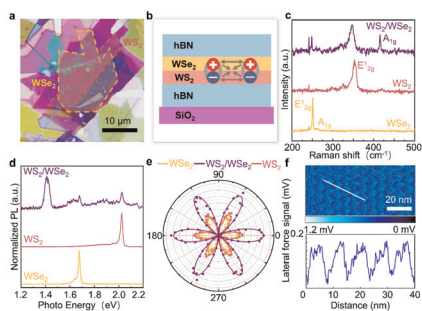
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Han Li, Shanshan Yu, Handong Jin, Zikun Jin, Wei Qian, Wanshun Yang and Shihe Yang\*



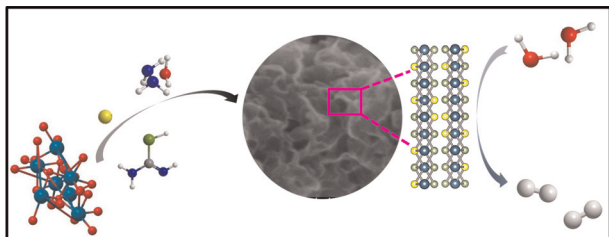
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Zihao Wang, Haowen Xu, Shihong Chen, Yutang Wang, Rui Han, Zejun Sun, Xiushuo Zhang, Shuchun Huang, Wei Gao,\* Huan Liu\* and Dameng Liu\*

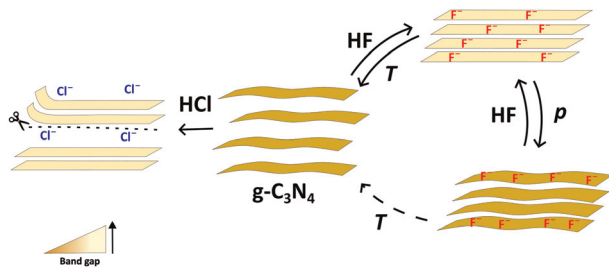
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### Enhanced hydrogen evolution reaction performance of alloyed MoS<sub>1.34</sub>Se<sub>0.78</sub> with dominant 1T/T' phases

Qiulan Zhou, Zhen Liu, Xiaohu Luo, Xin Qin\* and Weijian Xu\*

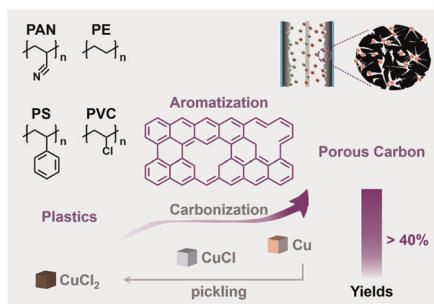
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### Adaptive states of carbon nitride semiconductor materials treated with hydrofluoric acid

Oliver Stölting, Yaşar Krysiak and Sebastian Polarz\*

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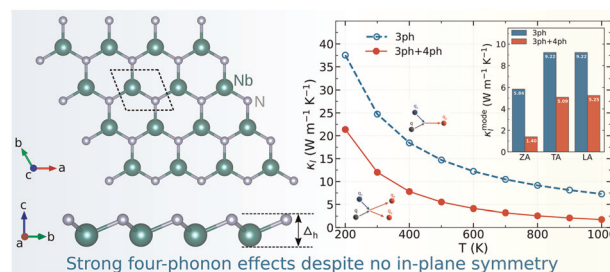
Yanqin Zheng, Fuwang Wen, Hai Li, Fangbao Fu, Xihong Zu, Yanwei Wang, Almagul Mentbayeva and Wenli Zhang\*



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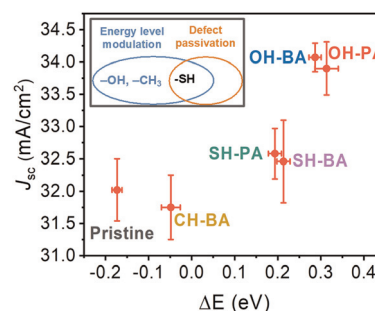
Himanshu Murari, Subhradip Ghosh, Mukul Kabir and Ashis Kundu\*



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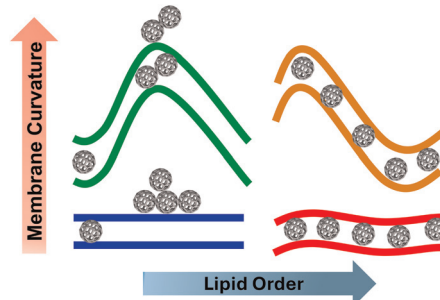
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Ankush Singhal,\* T. J. J. van Daalen and G. J. Agur Sevink\*



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Nitesh Choudhary, Dawid Janas, Ramesh Chandra and Pradip K. Maji\*

