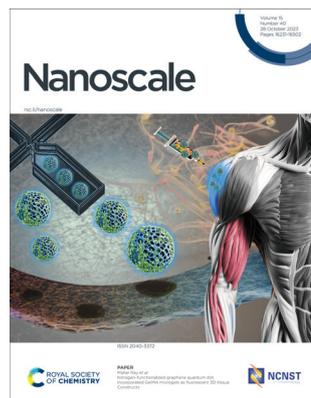


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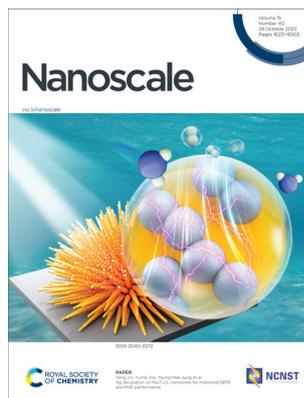


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See Mallar Ray *et al.*, pp. 16268–16277.

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### Inside cover

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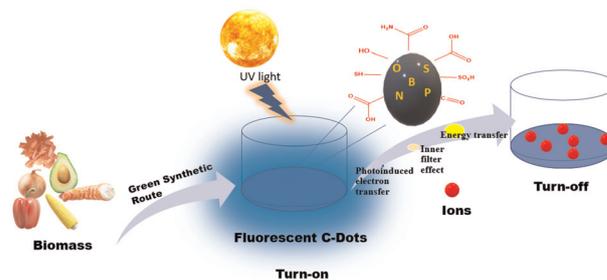
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### Assessment of biomass-derived carbon dots as highly sensitive and selective templates for the sensing of hazardous ions

Permender Singh, Arpita, Sandeep Kumar,\* Parmod Kumar, Navish Kataria, Vinita Bhankar, Krishan Kumar,\* Ravi Kumar, Chien-Te Hsieh\* and Kuan Shiong Khoo\*

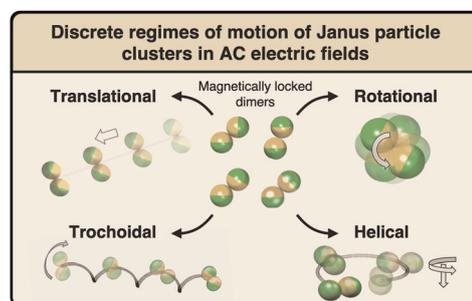


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Jin Gyun Lee, Cooper P. Thome, Zoe A. Cruse, Arkava Ganguly, Ankur Gupta and C. Wyatt Shields, IV\*



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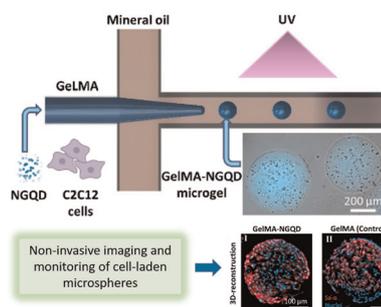


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### Ag decoration on $\text{Na}_2\text{Ti}_3\text{O}_7$ nanowires for improved SERS and PHE performance

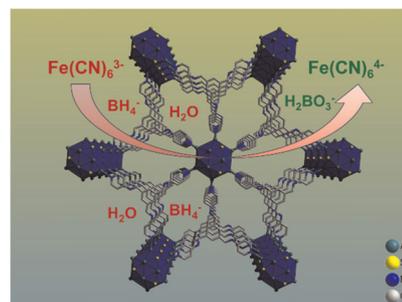
Lei Chen, Yang Jin,\* Shuang Guo, Eungyeong Park, Yunfei Xie\* and Young Mee Jung\*



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### A new two-dimensional luminescent $\text{Ag}_{12}$ cluster-assembled material and its catalytic activity for reduction of hexacyanoferrate(III)

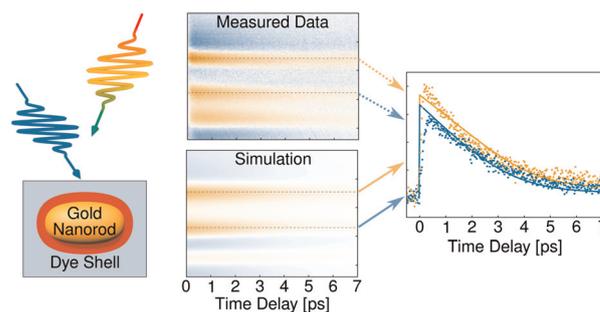
Riki Nakatani, Sourav Biswas, Tsukasa Irie, Jin Sakai, Daisuke Hirayama, Tokuhiwa Kawawaki, Yoshiki Niihori, Saikat Das\* and Yuichi Negishi\*



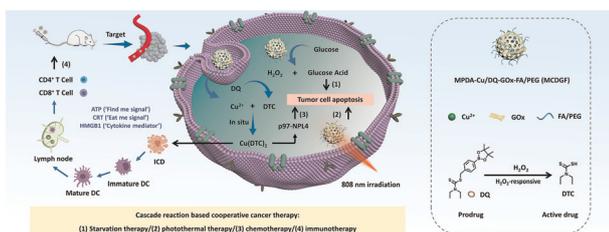
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### Ultrafast dynamics in plasmon–exciton core–shell systems: the role of heat

Felix Stete, Matias Bargheer and Wouter Koopman\*



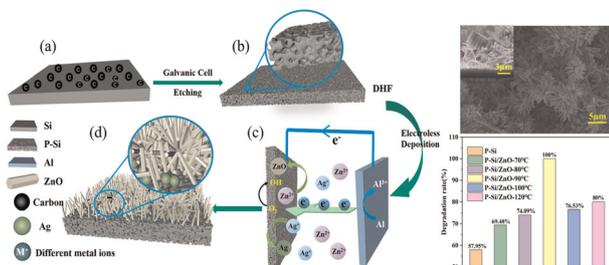
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Xiaochun Hu, Wenrong Zhao, Ruihao Li, Keke Chai, Fangjian Shang, Shuo Shi\* and Chunyan Dong\*

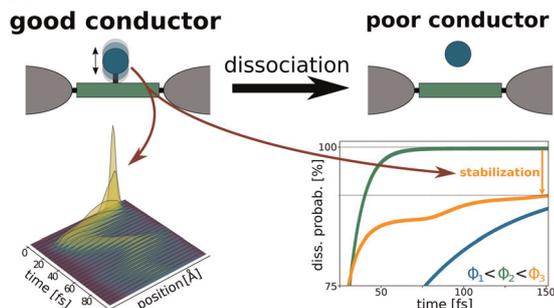
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## Fabrication of a P-Si/ZnO heterojunction based on galvanic cell driven and the complete degradation of RhB *via* fast charge transfer

Xiaoyu Yang, Lin Wu, Baoguo Zhang, Jingwang Li, Yifan Shen, Ying Liu\* and Ya Hu\*

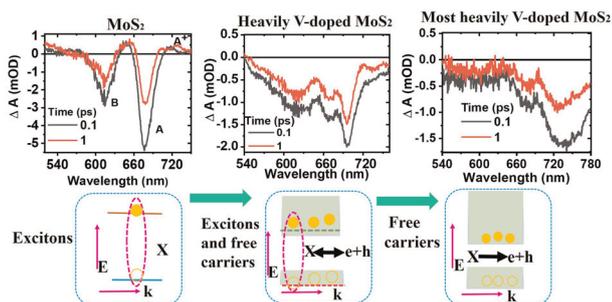
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André Erpenbeck,\* Yaling Ke, Uri Peskin and Michael Thoss

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Bhuvan Upadhyay, Rahul Sharma, Dipak Maity, Tharangattu N. Narayan and Suman Kalyan Pal\*



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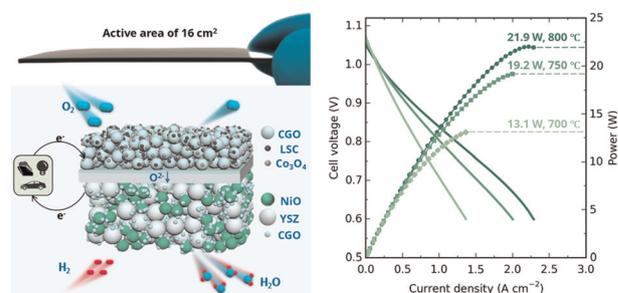
Alejandro Jiménez-Martín, Aurelio Gallardo\* and Bruno de la Torre\*



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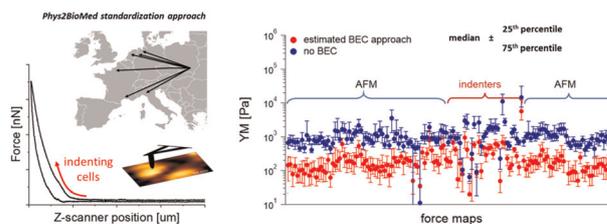
Xiaofeng Tong,\* Chen Li, Kaikuo Xu, Ningling Wang, Karen Brodersen, Zhibin Yang and Ming Chen\*



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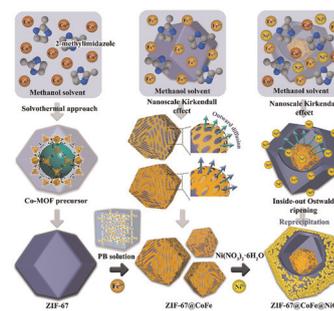
S. Pérez-Domínguez, S. G. Kulkarni, J. Pabijan, K. Gnanachandran, H. Holuigue, M. Eroles, E. Lorenc, M. Berardi, N. Antonovaite, M. L. Marini, J. Lopez Alonso, L. Redonto-Morata, V. Dupres, S. Janel, S. Acharya, J. Otero, D. Navajas, K. Bielawski, H. Schillers, F. Lafont, F. Rico, A. Podestà,\* M. Radmacher\* and M. Lekka\*



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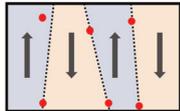
### A multi-layer core-shell structure $\text{CoFe}_2\text{O}_4@\text{Fe}_3\text{C}@\text{NiO}$ composite with high broadband electromagnetic wave-absorption performance

Wei Si, Qingwei Liao,\* Yu Chu, Zhiwei Zhang, Xiangcheng Chu\* and Lei Qin\*

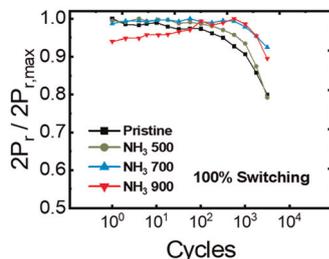
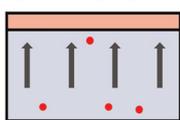


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Low voltage cycling



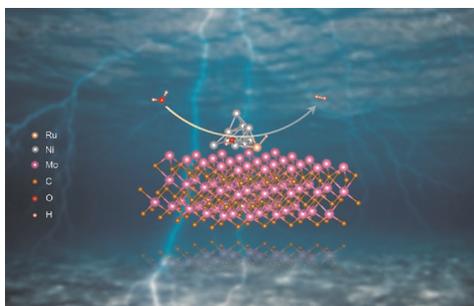
High voltage cycling



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Kyung Do Kim, Yong Bin Lee, Suk Hyun Lee, In Soo Lee, Seung Kyu Ryoo, Seung Yong Byun, Jae Hoon Lee and Cheol Seong Hwang\*

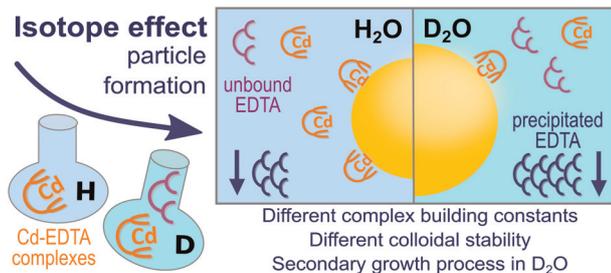
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### Regulation of the electronic structure of a RuNi/MoC electrocatalyst for high-efficiency hydrogen evolution in alkaline seawater

Xiaocheng Fan, Bei Li, Chunling Zhu,\* Feng Yan\* and Yujin Chen\*

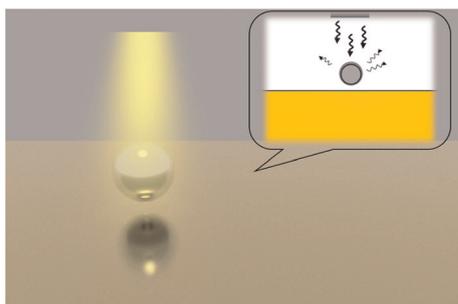
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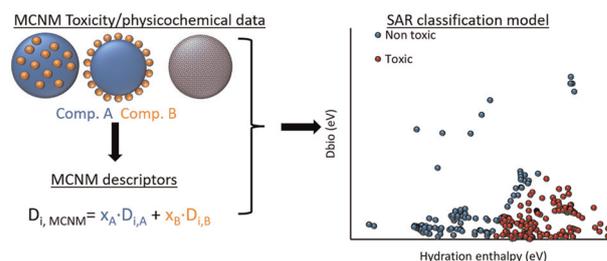
Zhen Wang, Jinqiao Lu, Zilong Wang, Jie Huang, Le Wang, Qiang Chen, Yunfeng Li,\* Yongxing Jin\* and Pei Liang\*



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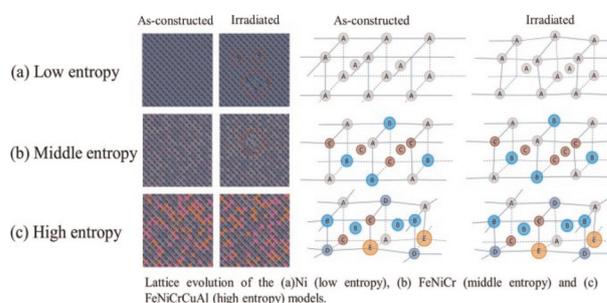
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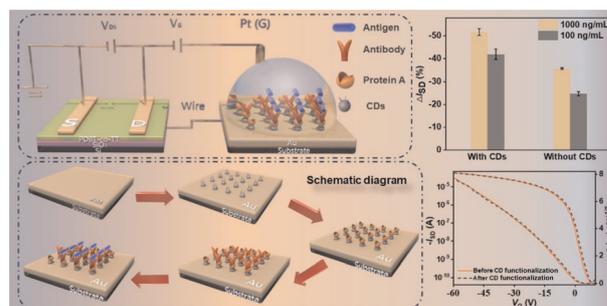
Peng-wei Wang, Ming-fei Li, Babafemi Malomo and Liang Yang\*



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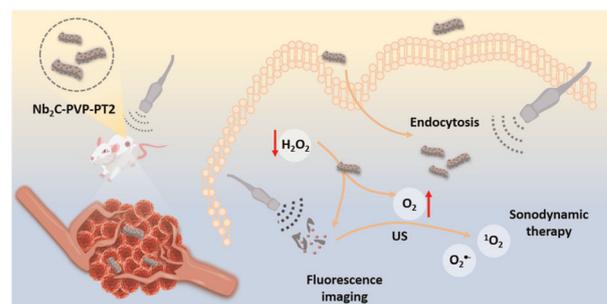
Yanmin Zhang, Chenfang Sun, Yuchen Duan, Shanshan Cheng\* and Wenping Hu



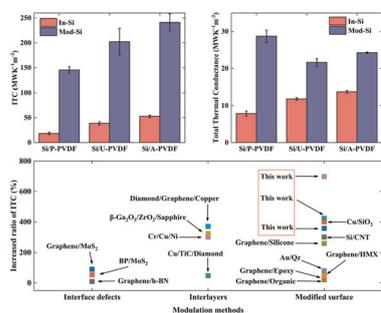
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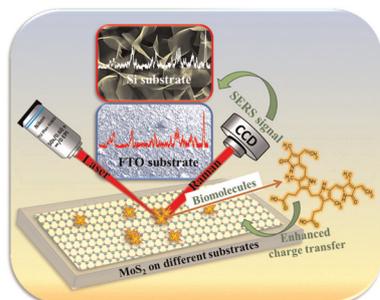
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Zhicheng Zong, Shichen Deng, Yangjun Qin, Xiao Wan, Jiahong Zhan, Dengke Ma and Nuo Yang\*

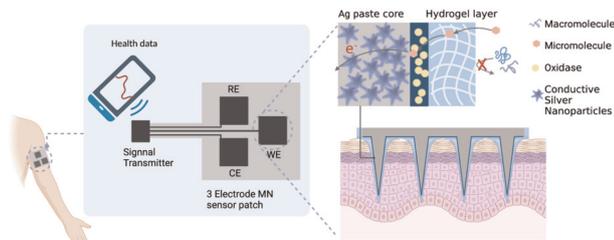
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Ankita Singh and Ashish Kumar Mishra\*

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Yuyue Zhang, Guangyao Zhao, Mengjia Zheng, Tianli Hu, Cheng Yang\* and Chenjie Xu\*

