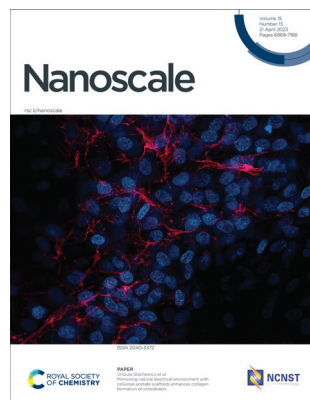


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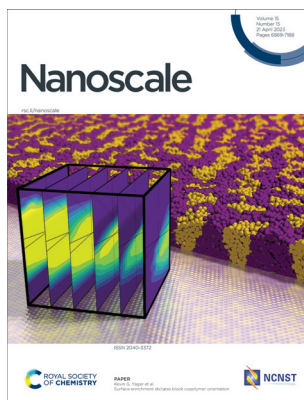
ISSN 2040-3372 CODEN NANOHL 15(15) 6869–7188 (2023)



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See Urszula Stachewicz *et al.*, pp. 6890–6900.

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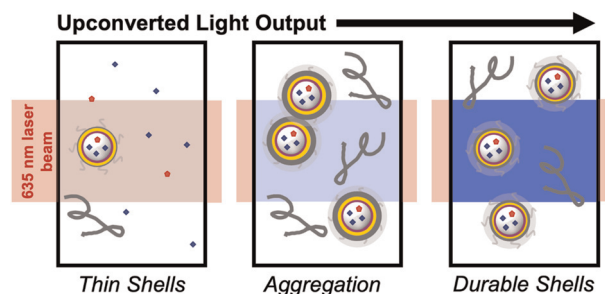
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### Controlling the durability and optical properties of triplet–triplet annihilation upconversion nanocapsules

Tracy H. Schloemer, Samuel N. Sanders, Pournima Narayanan, Qi Zhou, Manchen Hu and Daniel N. Congreve\*

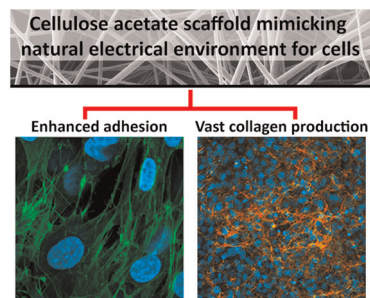


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Piotr K. Szewczyk, Krzysztof Berniak, Joanna Knapczyk-Korczak, Joanna E. Karbowiczek, Mateusz M. Marzec, Andrzej Bernasik and Urszula Stachewicz\*



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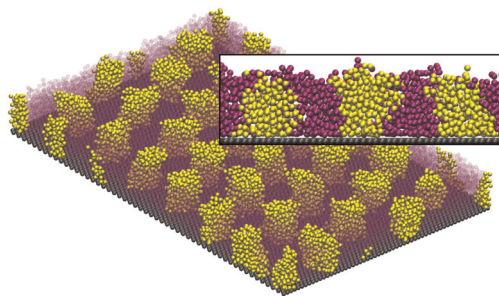


## PAPERS

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## Surface enrichment dictates block copolymer orientation

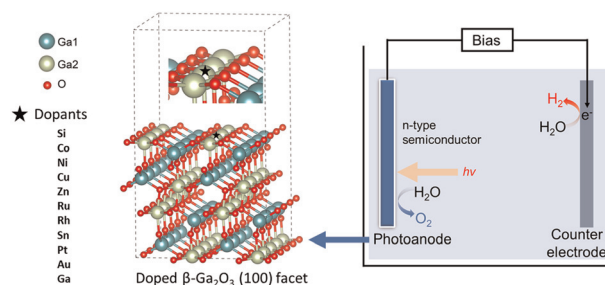
Suwon Bae, Marcus M. Noack and Kevin G. Yager\*



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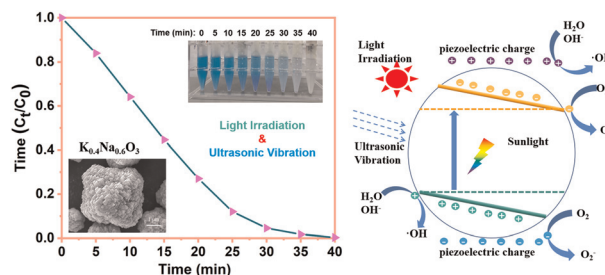
Sijia Fu, David Lewis, Philip van Eyk, Petar Atanackovic and Yan Jiao\*



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Piezoelectrically enhanced photocatalysis of  $K_xNa_{1-x}NbO_3$  (KNN) microstructures for efficient water purification

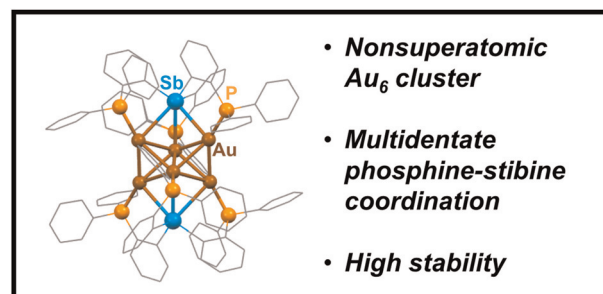
Runjiang Guo, Mengqian Liu, Yurui Xing, Tanglong Bai, Chenglong Zhao, Haolin Huang and Hongti Zhang\*



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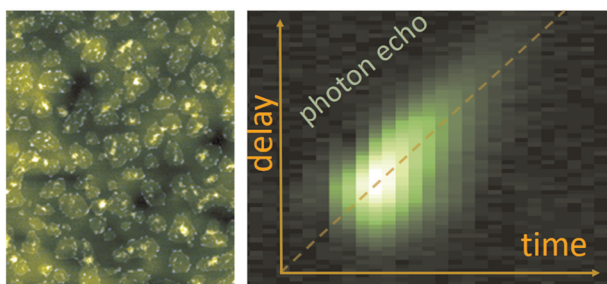
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Kundan K. Singh, Ayan Bhattacharyya, Shana Havenridge, Mohamed Ghabin, Hagan Ausmann, Maxime A. Siegler, Christine M. Aikens\* and Anindita Das\*



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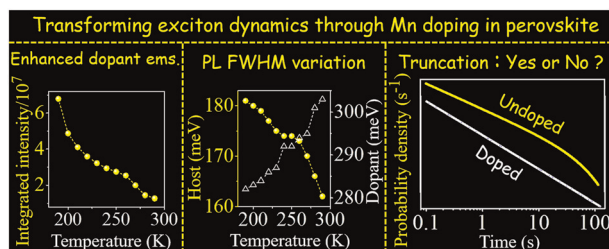
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### Coherent imaging and dynamics of excitons in MoSe<sub>2</sub> monolayers epitaxially grown on hexagonal boron nitride

Karolina Ewa Potczyńska\*, Simon Le Denmat, Takashi Taniguchi, Kenji Watanabe, Marek Potemski, Piotr Kossacki, Wojciech Pacuski and Jacek Kasprzak\*

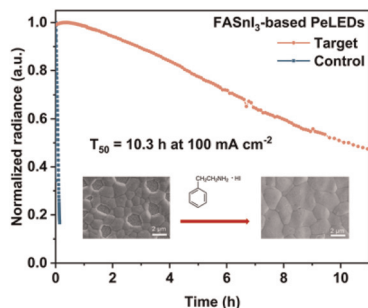
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### Transforming exciton dynamics in perovskite nanocrystal through Mn doping

Soumen Mukherjee, Swarnali Ghosh, Dibyendu Biswas, Mainak Ghosal, Kheyali De and Prasun K. Mandal\*

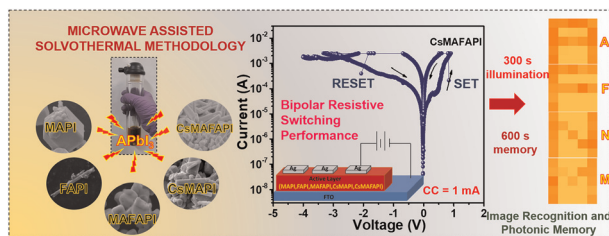
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### Stabilizing FASnI<sub>3</sub>-based perovskite light-emitting diodes with crystallization control

Guoling Zhang, Shiyu Xing, Xuhui Cao, Baodan Zhao\* and Dawei Di\*

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### Revealing the effect of substitutional cation doping in the A-site of nanoscale APbI<sub>3</sub> perovskite layers for enhanced retention and endurance in optoelectronic resistive switching for non-volatile bipolar memory devices

Twinkle George and Arumugam Vadivel Murugan\*



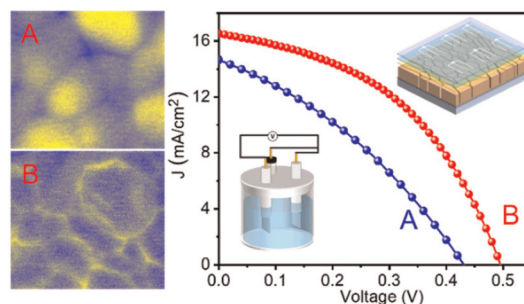


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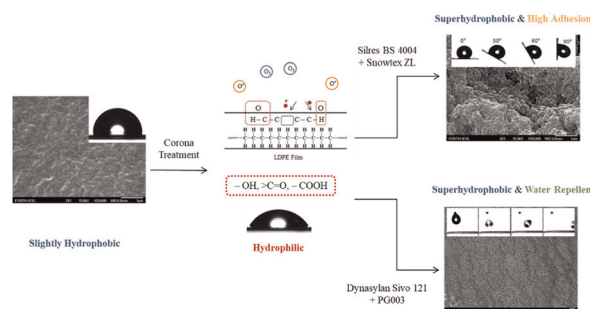
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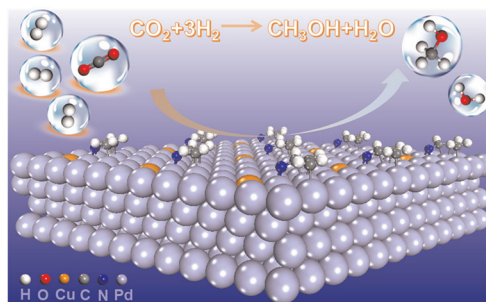
Fanourios Krasanakis, Thaleia-Michaela Chatzaki, Kiriaki Chrissopoulou\* and Spiros H. Anastasiadis\*



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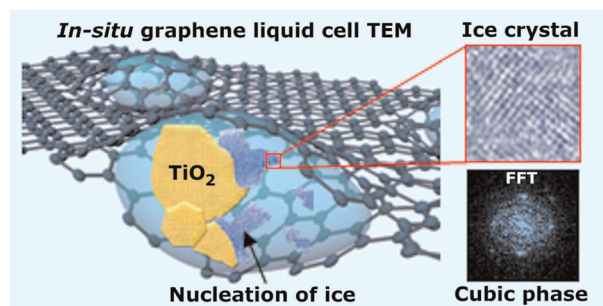
Sanmei Wang, Qi Li, Yue Xin, Sunpei Hu, Xiaoxi Guo, Yong Zhang, Ling Zhang, Bingang Chen\*, Wenhua Zhang\* and Liangbing Wang\*



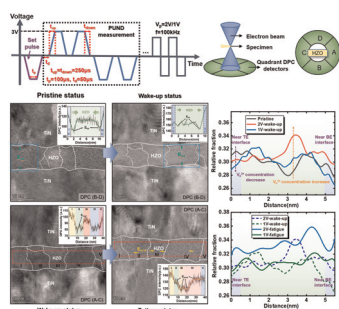
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Abhijit H. Phakatkar, Constantine M. Megaridis, Tolou Shokuhfar\* and Reza Shahbazian-Yassar\*



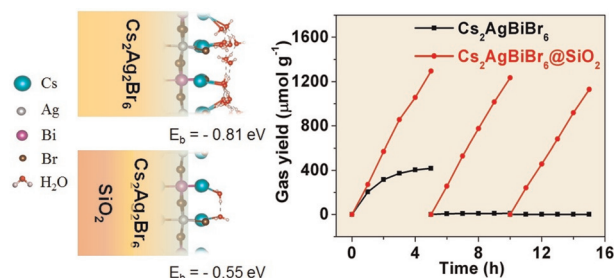
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### First direct observation of the built-in electric field and oxygen vacancy migration in ferroelectric $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ film during electrical cycling

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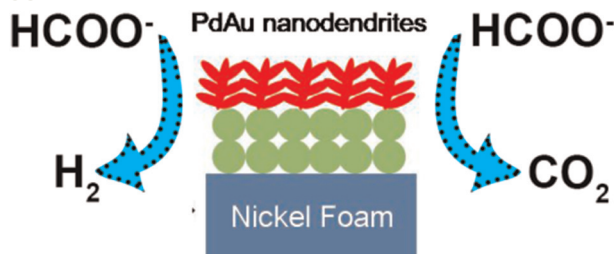
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### *In situ* growth of lead-free halide perovskites into $\text{SiO}_2$ sub-microcapsules toward water-stable photocatalytic $\text{CO}_2$ reduction

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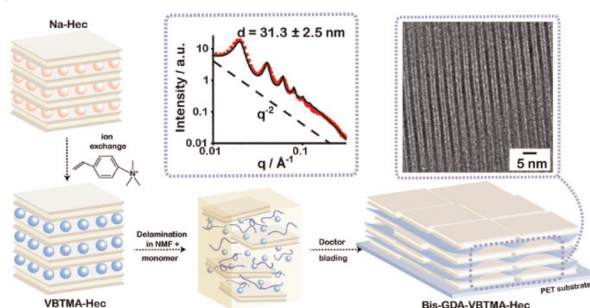
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### Nickel-supported PdM (M = Au and Ag) nanodendrites as formate oxidation (electro) catalytic anodes for direct fuel cells and hydrogen generation at room temperature

Bowei Pan, Shuang Shan, Junpeng Wang, Quan Tang, Longfei Guo, Tao Jin, Qiao Wang, Zhen Li, Muhammad Usman and Fuyi Chen\*

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### Fabrication of Bragg stack films of clay nanosheets and polycations *via* co-polymerization of intercalated monomers and functional interlayer cations

Dominik Schuchardt, Sabine Rosenfeldt, Hussein Kalo and Josef Breu\*

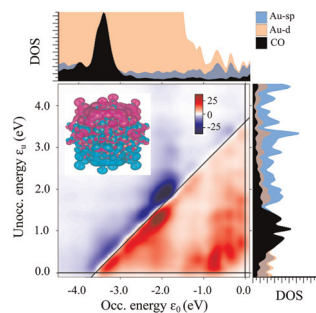


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# A comprehensive investigation of the plasmonic-photocatalytic properties of gold nanoparticles for CO<sub>2</sub> conversion to chemicals

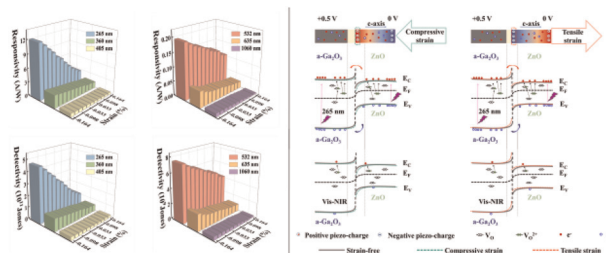
Maryam Soleimani and Mahdi Pourfath\*



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# Piezo-phototronic effect regulated broadband photoresponse of a-Ga<sub>2</sub>O<sub>3</sub>/ZnO heterojunction

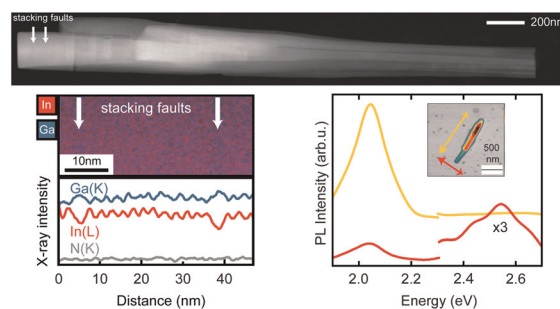
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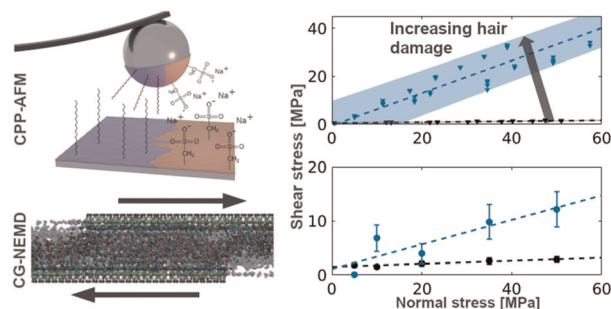
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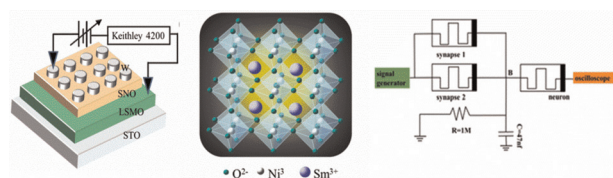
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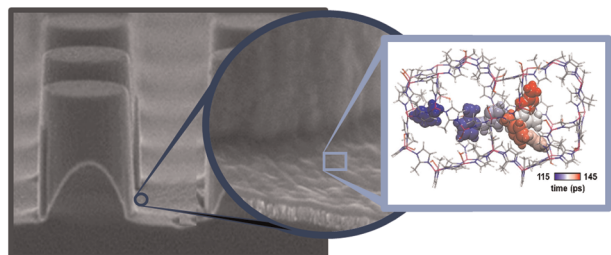
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Lei Li, Dongqing Yu, Yiheng Wei, Yong Sun, Jianhui Zhao, Zhenyu Zhou, Jie Yang, Zichang Zhang and Xiaobing Yan\*

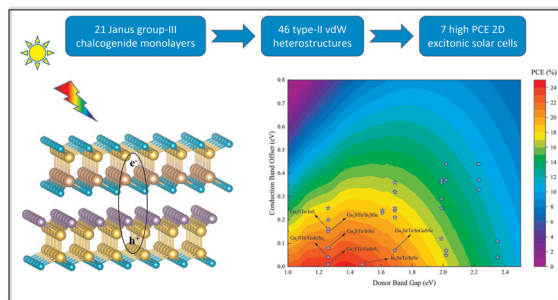
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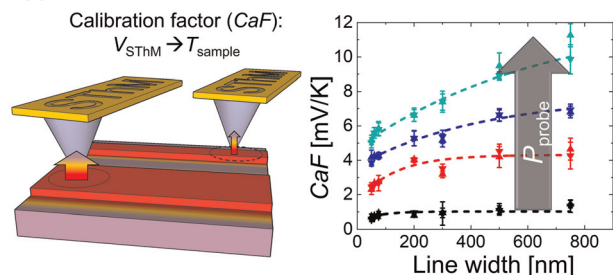
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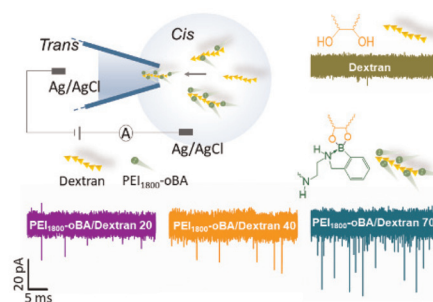


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# Phenylboronic acid-modified polyethyleneimine assisted neutral polysaccharide detection and weight-resolution analysis with a nanopipette

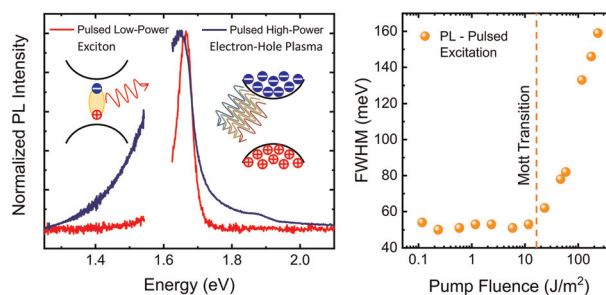
Wanyi Xie, Shixuan He,\* Shaoxi Fang, Rong Tian, Liyuan Liang and Deqiang Wang\*



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# Ultrafast hot electron–hole plasma photoluminescence in two-dimensional semiconductors

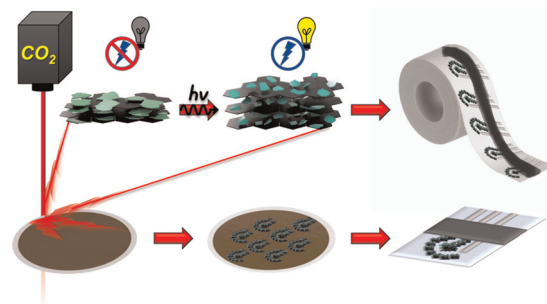
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