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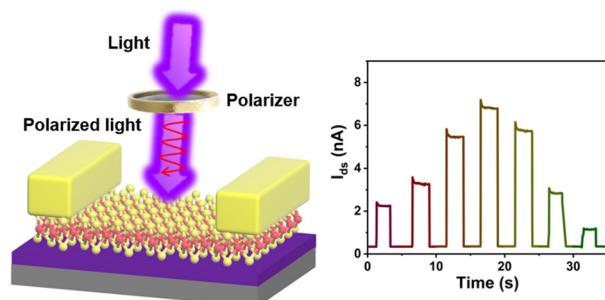
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Development and challenges of polarization-sensitive photodetectors based on 2D materials

Liang Yu, Huafeng Dong, Wei Zhang, Zhaoqiang Zheng,* Ying Liang* and Jiandong Yao*

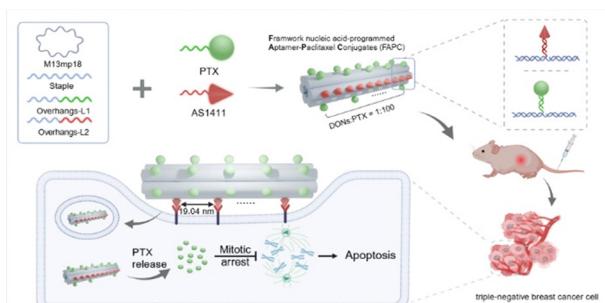


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Framework nucleic acid-programmed aptamer–paclitaxel conjugates as targeted therapeutics for triple-negative breast cancer

Lin Li, Pengyao Wei, Tong Kong, Bo Yuan, Pan Fu, Yong Li, Yuhui Wang,* Jianping Zheng* and Kaizhe Wang*



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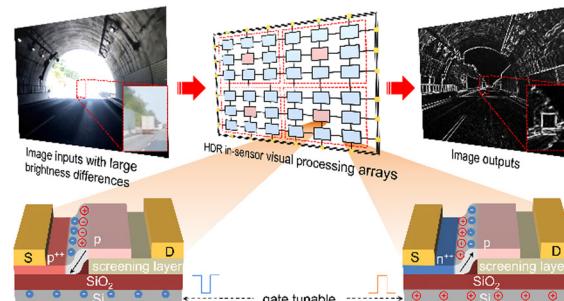
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An ultra-fast WSe₂ homojunction photodiode with a large linear dynamic range towards in-sensor image processing

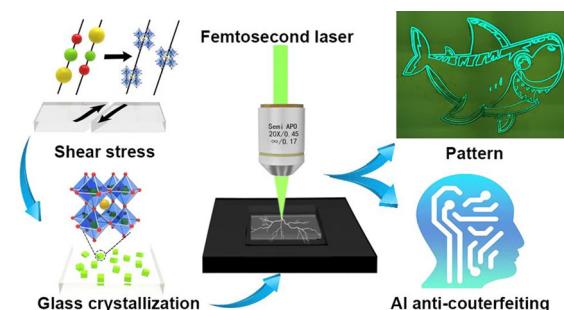
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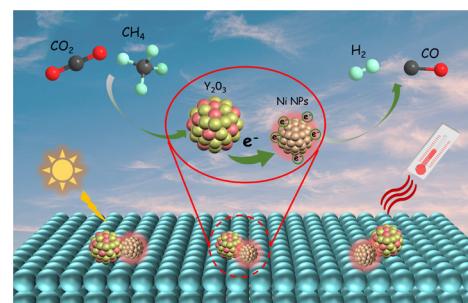
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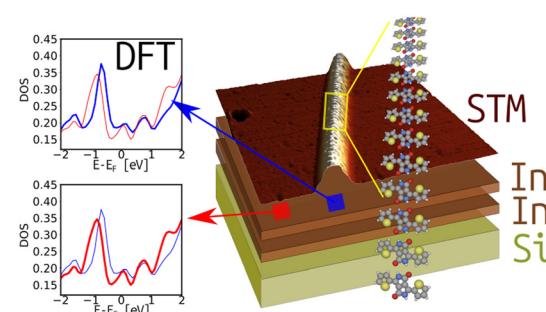
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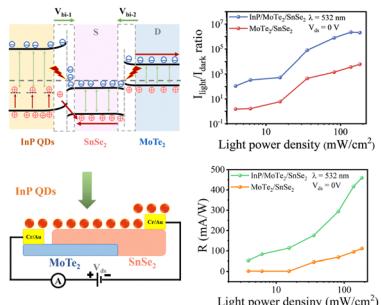
One-dimensional molecular nanostructures interacting with two-dimensional metals

Pavel Kocán,* Barbara Pieczyrak, Soshiro Umachi, Martin Cigánek, Pavel Sobotík, Ivan Ošťádal, Leszek Jurczyszyn, Jozef Krajčovič and Kazuyuki Sakamoto



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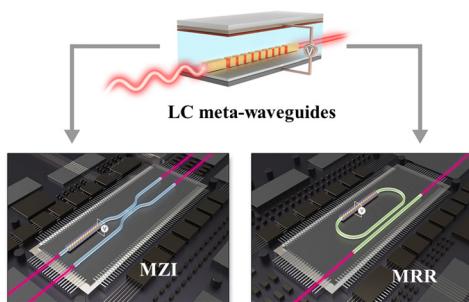
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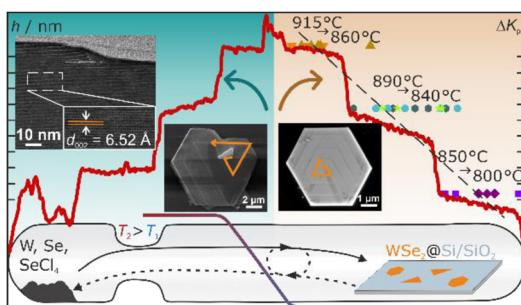
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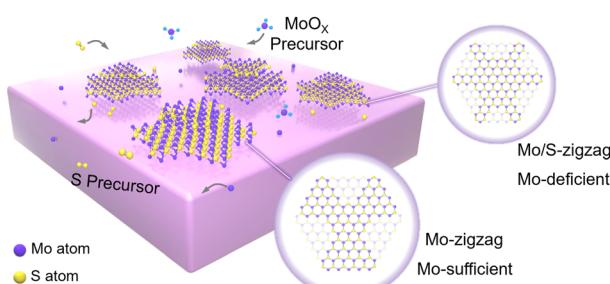
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Creating chirality in WSe₂ through screw dislocations by chemical vapor transport

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Weijie Ma, Qing Zhang, Jie Zhu, Yang Guo, Yajing Sun, Lin Li and Dechao Geng*

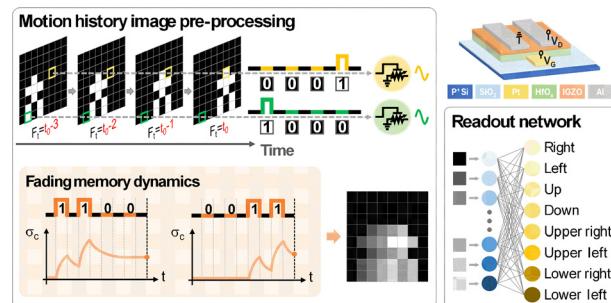


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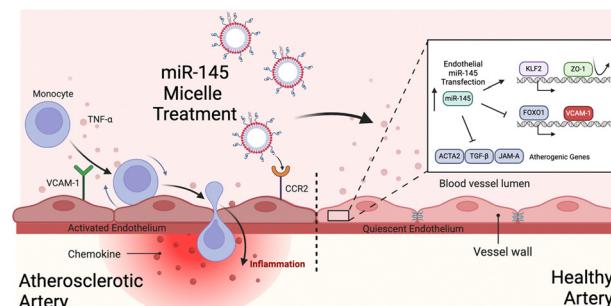
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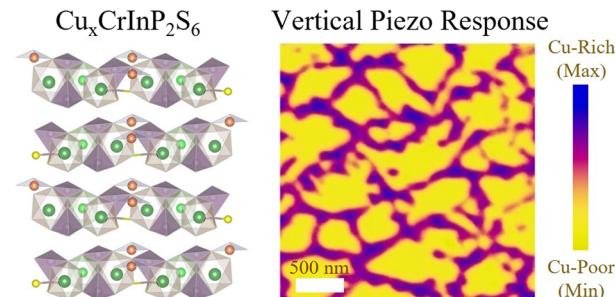
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Sharidya Rahman,* Sanika S. Padelkar, Lan Nguyen, Naufan Nurrosyid, Md Hemayet Uddin, Oleksandr Chernyavskiy, Junlin Yan, Chang Cao, Alexandre N. Simonov, Aftab Alam and Jacek J. Jasieniak*



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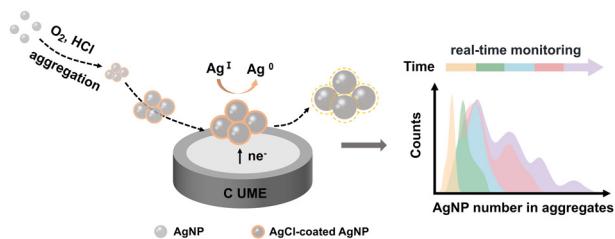
Biogenic fluorescent carbon dot-decorated mesoporous organosilica nanoparticles for enhanced bioimaging and chemotherapy

Ky-Vien Le, Hanh-Vy Tran Nguyen, Phu-Quan Pham, Ngoc Hong Nguyen, Tan Le Hoang Doan, Linh Ho Thuy Nguyen, Bach Thang Phan, Lan Thi My Nguyen,* Sungkyun Park, Ngoc Kim Pham,* Philip Anggo Krisbiantoro, Kevin C.-W. Wu* and Ngoc Xuan Dat Mai*



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**Real-time, non-destructive monitoring of the aggregation behavior of silver nanoparticles using nano-impact electrochemistry**

Hairong Hu, Yu-An Li, Meijuan Liu, Wei Xu and Yi-Ge Zhou*

