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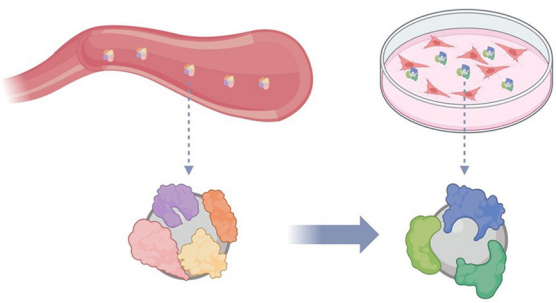

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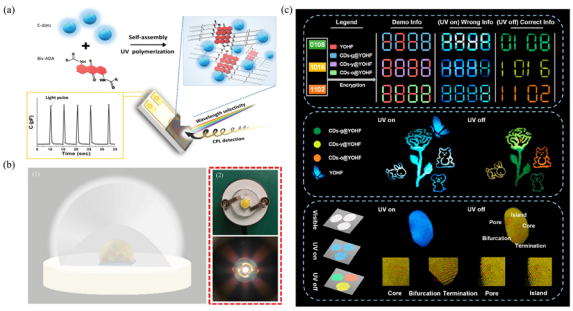
Recent advances in fluorescence and afterglow of CDs in matrices

Qiang Fu,* Kangzhi Lu, Shouhong Sun and Zhanhua Dong



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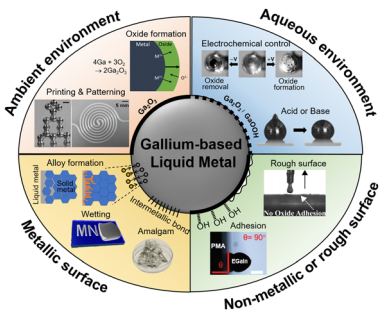
Interface of gallium-based liquid metals: oxide skin, wetting, and applications

Ji-Hye Kim, Sooyoung Kim, Michael D. Dickey, Ju-Hee So* and Hyung-Jun Koo*



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Ethanol purification enables high-quality α-phase $FAPbI_3$ perovskite microcrystals for commercial photovoltaic applications

Hyun Seo Kim, Hyun-Sung Yun, Chae-Eun Seo, Soo Bin Yoo, Bong Joo Kang,* Eui Hyuk Jung* and Nam Joong Jeon*

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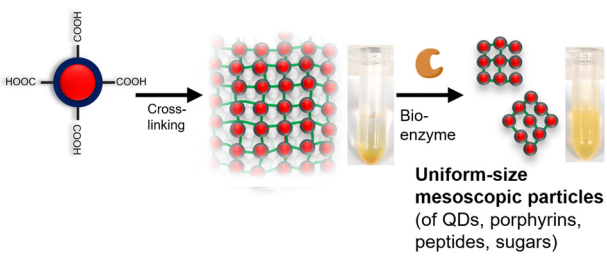
Bio-catalytic nanoparticle shaping for preparing mesoscopic assemblies of semiconductor quantum dots and organic molecules

Rumana Akter, Nicholas Kirkwood, Samantha Zaman, Bang Lu, Tinci Wang, Satoru Takakusagi, Paul Mulvaney, Vasudevanpillai Biju* and Yuta Takano*



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COMMUNICATIONS

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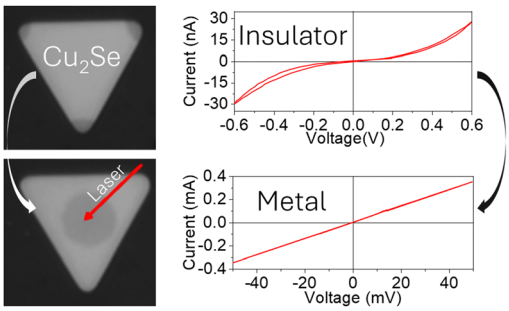

Ion transport induced room-temperature insulator–metal transition in single-crystalline Cu_2Se

Abdulsalam Aji Suleiman, Amir Parsi, Mohammadali Razeghi, Uğur Başçı, Saeyoung Oh, Doruk Pehlivanoğlu, Hu Young Jeong, Kibum Kang and T. Serkan Kasırga*

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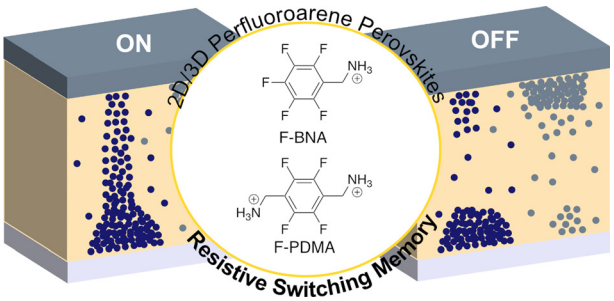

Resistive switching memories with enhanced durability enabled by mixed-dimensional perfluoroarene perovskite heterostructures

Michalis Loizos, Konstantinos Rogdakis,* Weifan Luo, Paul Zimmermann, Alexander Hinderhofer, Jovan Lukić, Marinos Tountas, Frank Schreiber, Jovana V. Milić* and Emmanuel Kymakis*

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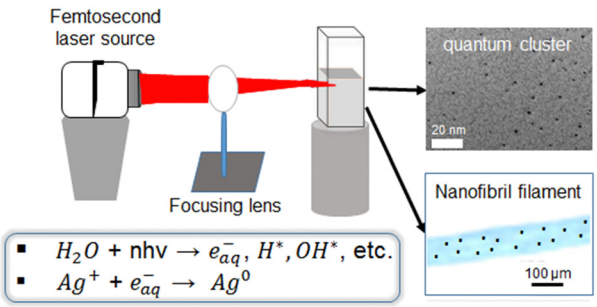

Protector-free, non-plasmonic silver quantum clusters by femtosecond pulse laser irradiation: *in situ* binding on nanocellulose filaments for improved catalytic activity and cycling performance

Toyoko Imae,* Shambel Abate Marye, Ling Wang and Orlando J. Rojas*

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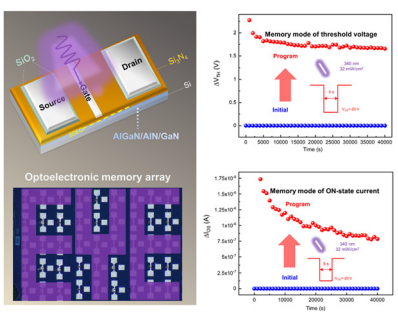

Integrating ultraviolet sensing and memory functions in gallium nitride-based optoelectronic devices

Kuan-Chang Chang, Xibei Feng, Xinqing Duan, Huangbai Liu, Yanxin Liu, Zehui Peng, Xinnan Lin* and Lei Li*

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COMMUNICATIONS

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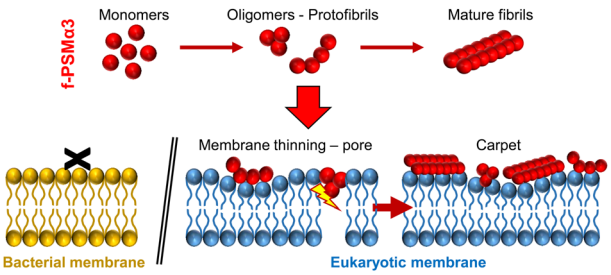
N-Formylation modifies membrane damage associated with PSMα3 interfacial fibrillation

Laura Bonnecaze, Katlyn Jumel, Anthony Vial, Lucie Khemtemourian, Cécile Feuillie, Michael Molinari, Sophie Lecomte and Marion Mathelié-Guinlet*



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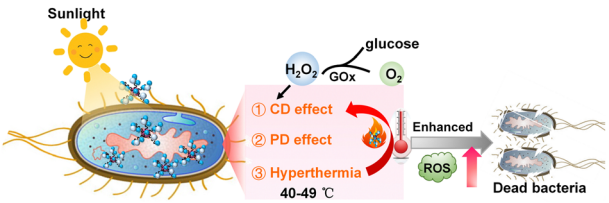
White light powered antimicrobial nanoagents for triple photothermal, chemodynamic and photodynamic based sterilization

Hua Tian, Houjuan Zhu,* Yuling Xue, Maonan Wang, Kuoran Xing, Zibiao Li, Xian Jun Loh, Enyi Ye, Xianguang Ding, Bang Lin Li, Xueqiong Yin* and David Tai Leong*



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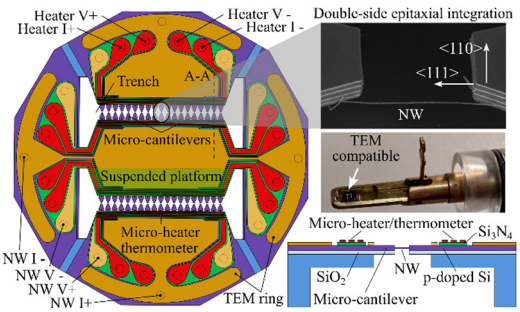
TEM-compatible microdevice for the complete thermoelectric characterization of epitaxially integrated Si-based nanowires

Jose M. Sojo-Gordillo,* Yashpreet Kaur, Saeko Tachikawa, Nerea Alayo, Marc Salleras,* Nicolas Forrer, Luis Fonseca,* Alex Morata,* Albert Tarancón* and Ilaria Zardo*



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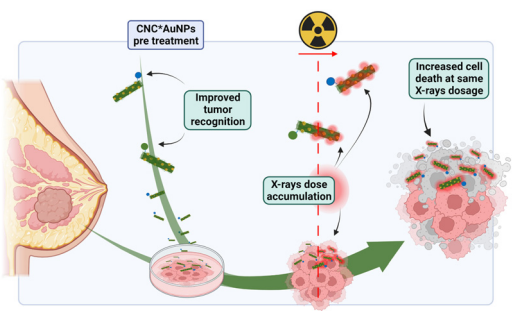
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