

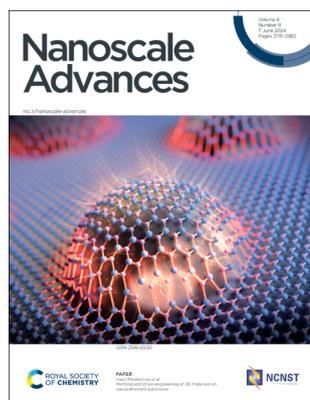
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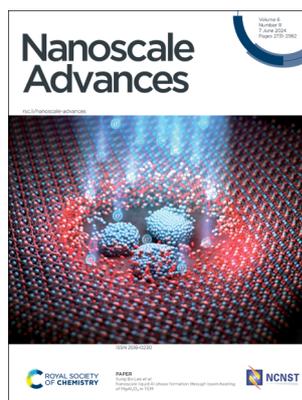
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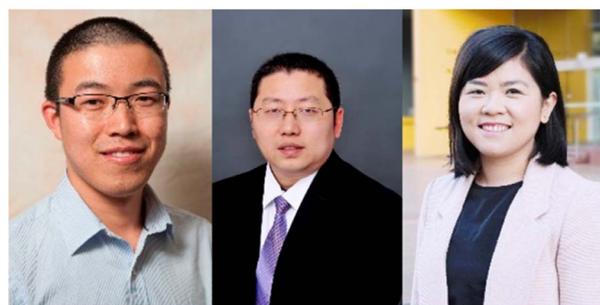
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See Sung Bo Lee *et al.*, pp. 2830–2837. Image reproduced by permission of Sung Bo Lee from *Nanoscale Adv.*, 2024, 6, 2830.

EDITORIAL

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Nanomaterials for gas sensing and delivery

Run Zhang, Songjun Zeng and Rona Chandrawati

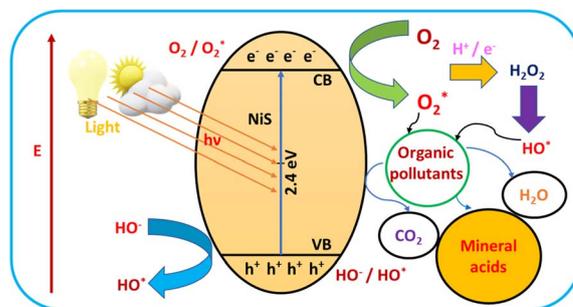


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Nanocosmos of catalysis: a voyage through synthesis, properties, and enhanced photocatalytic degradation in nickel sulfide nanocomposites

Nityananda Sarkar, Soumya Ranjan Mishra, Vishal Gadore, Biswaranjan Panigrahi and Md. Ahmaruzzaman*



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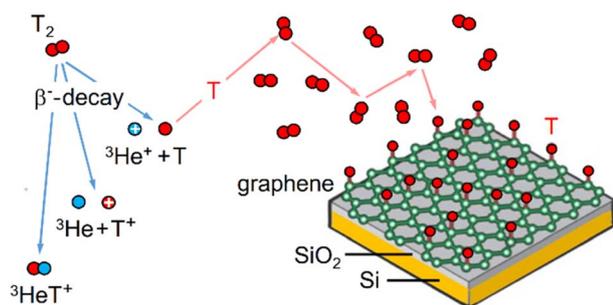
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Fundamental questions
Elemental answers



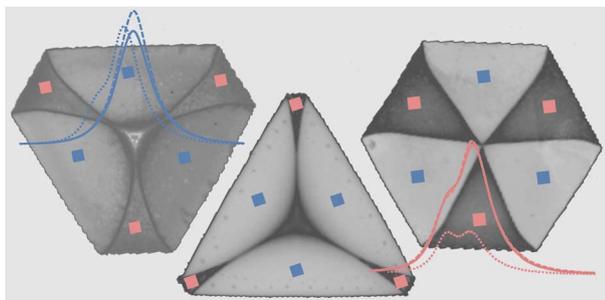
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Demonstration of tritium adsorption on graphene

Genrich Zeller,* Desedea Diaz Barrero, Paul Wiesen, Simon Niemes, Nancy Tuchscherer, Max Aker, Artus M. W. Leonhardt, Jannik Demand, Kathrin Valerius, Beate Bornschein, Magnus Schlösser and Helmut H. Telle

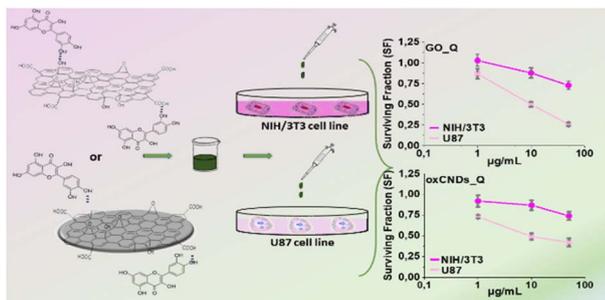
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Determination and investigation of defect domains in multi-shape monolayer tungsten disulfide

H. Ağırcan, D. Convertino, A. Rossi, L. Martini, S. Pace, N. Mishra, K. Küster, U. Starke, G. Kartal Şireli, C. Coletti and S. Forti*

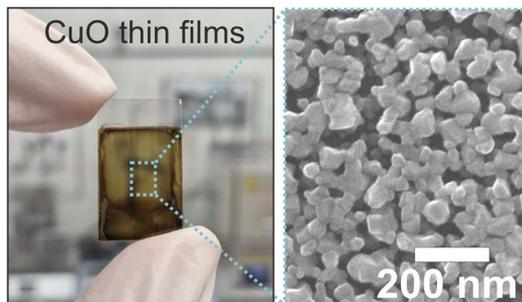
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Graphene oxide and oxidized carbon nanodiscs as biomedical scaffolds for the targeted delivery of quercetin to cancer cells

Panagiota Zygouri, Grigorios Tsioudoulos, Marina Angelidou, Eirini Papanikolaou, Antrea-Maria Athinodorou, Yannis V. Simos,* Konstantinos Spyrou,* Mohammed Subrati, Antonios Kouloumpis, Angela S. Kaloudi, Georgios Asimakopoulos, Konstantinos Tsamis, Dimitrios Peschos, Patra Vezyraki, Vasileios Ragos and Dimitrios P. Gournis

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On the structural evolution of nanoporous optically transparent CuO photocathodes upon calcination for photoelectrochemical applications

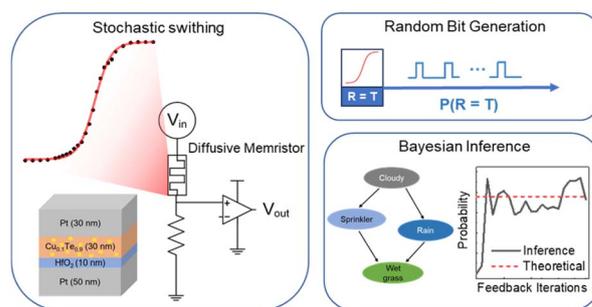
Lukas Korell, Stefan Lauterbach, Jana Timm, Li Wang, Maximilian Mellin, Anna Kundmann, Qingyang Wu, Chuanmu Tian, Roland Marschall, Jan P. Hofmann, Frank E. Osterloh and Marcus Einert*



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Implementation of Bayesian networks and Bayesian inference using a $\text{Cu}_{0.1}\text{Te}_{0.9}/\text{HfO}_2/\text{Pt}$ threshold switching memristor

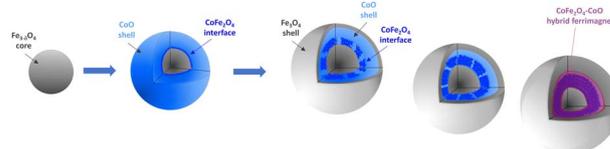
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Magnetic anisotropy engineering in onion-structured metal oxide nanoparticles combining dual exchange coupling and proximity effects

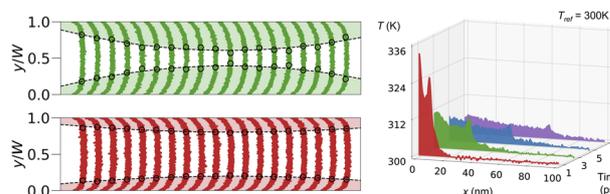
Kevin Sartori, Raul Lopez-Martin, Fadi Choueikani, Alexandre Gloter, Jean-Marc Grenèche, Sylvie Begin-Colin, Dario Taverna, Jose A. De Toro and Benoit P. Pichon*



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Quasiballistic thermal transport in submicron-scale graphene nanoribbons at room-temperature

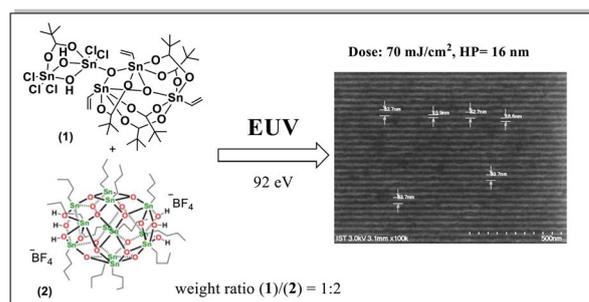
Soonsung So, Jae Hun Seol* and Joo-Hyoung Lee*



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Synthesis of pentameric chlorotin carboxylate clusters for high resolution EUV photoresists under small doses

Cheng-Dun Li, Ting-An Lin, Po-Hsiung Chen, Tsai-Sheng Gau, Burn-Jeng Lin, Po-Wen Chiu* and Jui-Hsiung Liu*



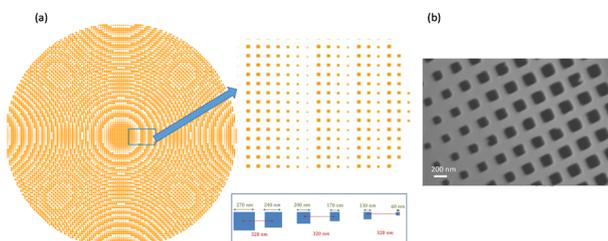
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Single-particle Förster resonance energy transfer from upconversion nanoparticles to organic dyes

Jialing Hu, Fei Zhao, Huan Ling, Yunxiang Zhang and Qian Liu*

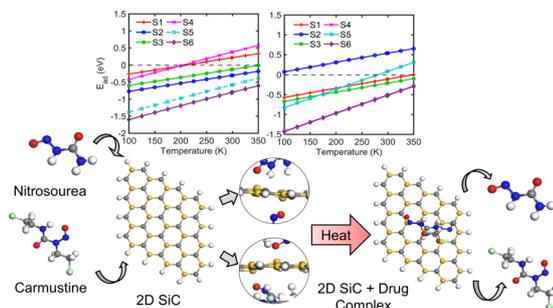
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UV-assisted nanoimprint lithography: the impact of the loading effect in silicon on nanoscale patterns of metals

Zahrah Alnakhli, Zhiyuan Liu, Feras AlQatari, Haicheng Cao and Xiaohang Li*

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First-principles study of a SiC nanosheet as an effective material for nitrosourea and carmustine anti-cancer drug delivery

Abdullah Jubair Bin Iqbal, Rifat Shahriar and Ahmed Zubair*

EXPRESSION OF CONCERN

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Expression of concern: Acceleration of ammonium phosphate hydrolysis using TiO₂ microspheres as a catalyst for hydrogen production

Ayman H. Zaki,* Ahmed Esmail Shalan,* Aya El-Shafeay, Yasser M. Gadelhak, Enas Ahmed, M. O. Abdel-Salam, M. Sobhi and S. I. El-dek

