Nanoscale

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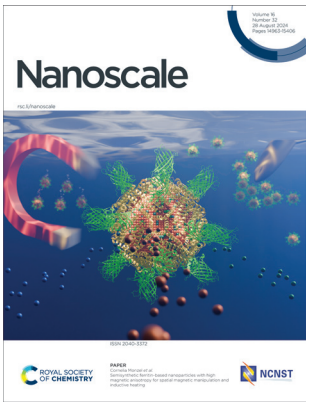

Cover
See Cornelia Monzel *et al.*, pp. 15113–15127.

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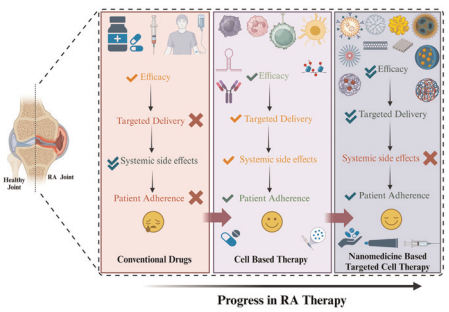
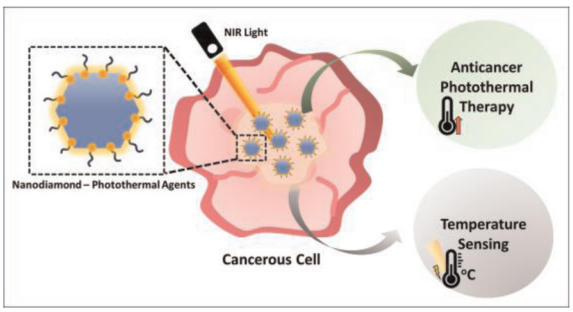
REVIEWS





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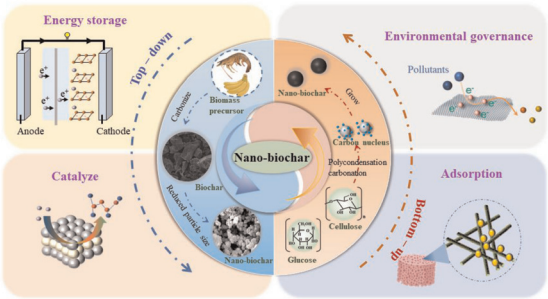

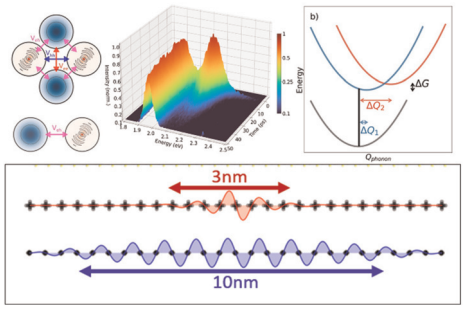

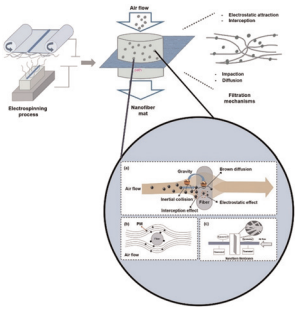

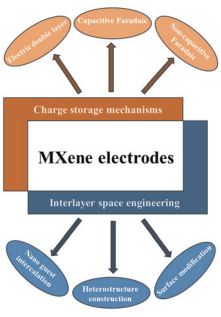

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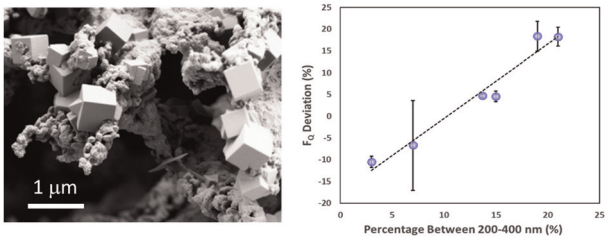

Microstructure-dependent particulate filtration using multifunctional metallic nanowire foams

James Malloy, Erin Marlowe, Christopher J. Jensen, Isaac S. Liu, Thomas Hulse, Anne F. Murray, Daniel Bryan, Thomas G. Denes, Dustin A. Gilbert, Gen Yin and Kai Liu*

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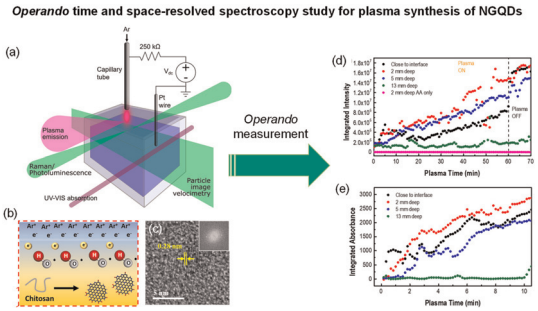

Operando time and space-resolved liquid-phase diagnostics reveal the plasma selective synthesis of nanographenes

Darwin Kurniawan, Francesca Caielli, Karthik Thyagajaran, Kostya (Ken) Ostrikov, Wei-Hung Chiang* and David Z. Pai*

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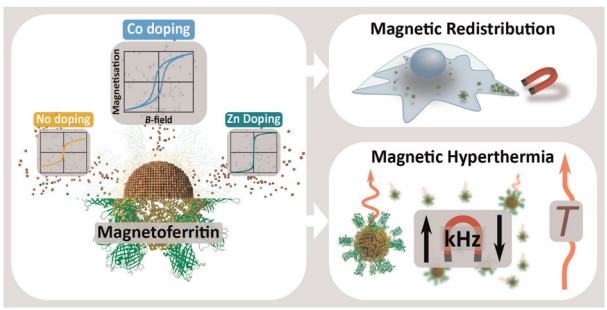

Semisynthetic ferritin-based nanoparticles with high magnetic anisotropy for spatial magnetic manipulation and inductive heating

Andreas Neusch, Ulf Wiedwald, Iuliia P. Novoselova, Daniel A. Kuckla, Nikolaos Tetos, Sarah Sadik, Philipp Hagemann, Michael Farle and Cornelia Monzel*

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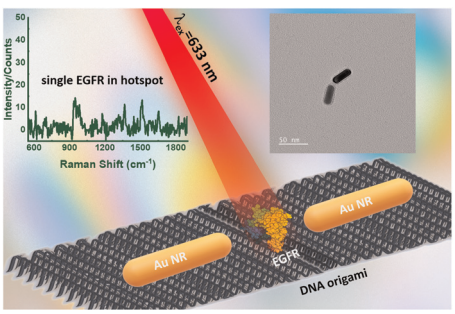

DNA origami-templated gold nanorod dimer nanoantennas: enabling addressable optical hotspots for single cancer biomarker SERS detection

Mridu Sharma, Charanleen Kaur, Priyanka Singhmar, Shikha Rai and Tapasi Sen*

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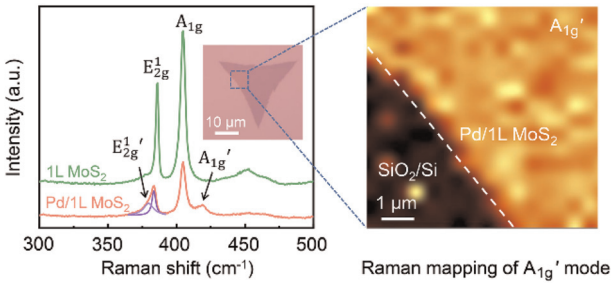
Changes of phonon modes and electron transfer induced by interface interactions of Pd/MoS_2 heterostructures

Xinyi Chen, Liang Zhou, Yusong Wu, Yadi Cao, Wengui Jiang, Yingying Xu, Rongming Wang* and Yinghui Sun*



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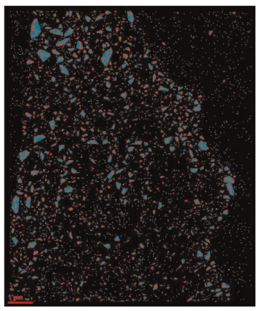
Formation of EGFRwt/EGFRvIII homo- and hetero-dimers in glioblastoma cells as detected by single molecule localization microscopy

Kevin Jahnke, Nina Struve,* Daniel Hofmann, Martin Julius Gote, Margund Bach, Malte Kriegs and Michael Hausmann*



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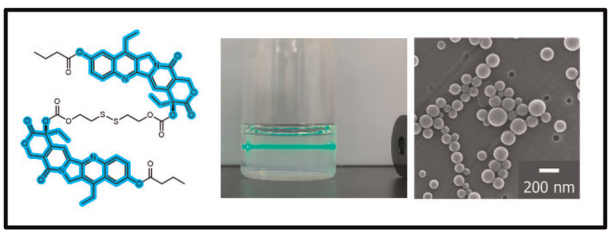
Carrier-free nano-prodrugs for minimally invasive cancer therapy

Keita Tanita, Yoshitaka Koseki,* Sanjay Kumar, Farsai Taemaitree, Asuka Mizutani, Hirotaka Nakatsuji, Ryuju Suzuki, Anh Thi Ngoc Dao, Fumiyoshi Fujishima, Hiroshi Tada, Takanori Ishida, Ken Saijo, Chikashi Ishioka and Hitoshi Kasai*



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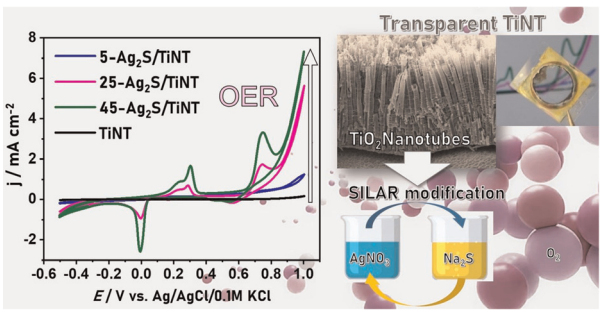
Transparent TiO_2 nanotubes supporting silver sulfide for photoelectrochemical water splitting

Wiktoria Lipińska, Stefania Wolff, Katharina E. Dehm, Simon P. Hager, Justyna Gumieniak, Agnieszka Kramek, Ryan W. Crisp, Emerson Coy, Katarzyna Grochowska and Katarzyna Siuzdak*



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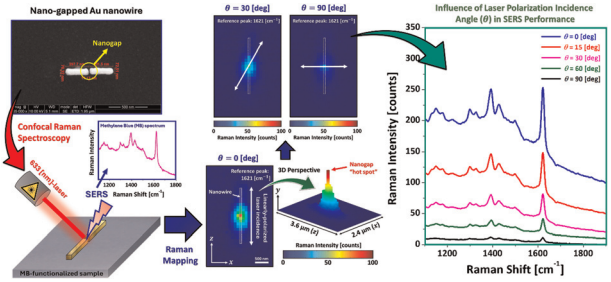

Laser polarization as a critical factor in the SERS-based molecular sensing performance of nano-gapped Au nanowires

Simón Roa,* Terunori Kaihara, María Laura Pedano,* Henrik Parsamyan and Paolo Vavassori

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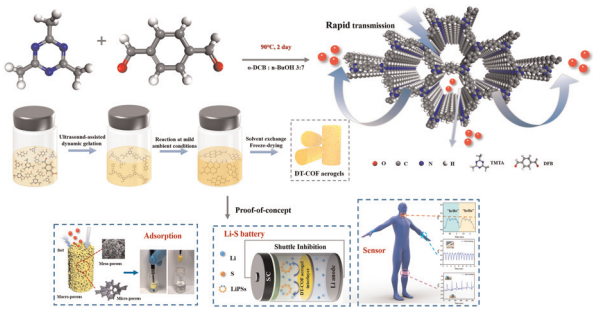

Preparation of sp^2 carbon-bonded π-conjugated COF aerogels by ultrasound-assisted mild solvothermal reaction for multi-functional applications

Qiaomu Wang, Lei Gao, Peng Wang, Yandong Wang, Yang Xu, Haocheng Xu, Xuebin Wang,* Zhen Meng* and Kai Xi*

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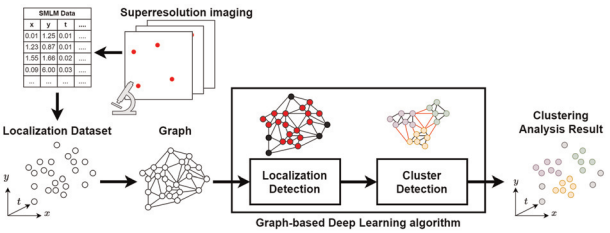

A supervised graph-based deep learning algorithm to detect and quantify clustered particles

Lucas A. Saavedra, Alejo Mosqueira and Francisco J. Barrantes*

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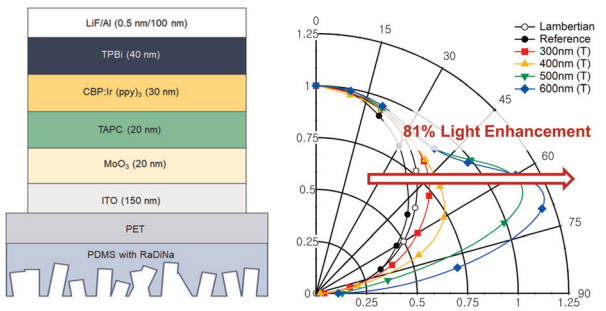

Spectrally independent and wide-angle light extraction of organic light emitting diodes with randomly disassembled nanostructure

Joel Ndikumana and Kunsik An*

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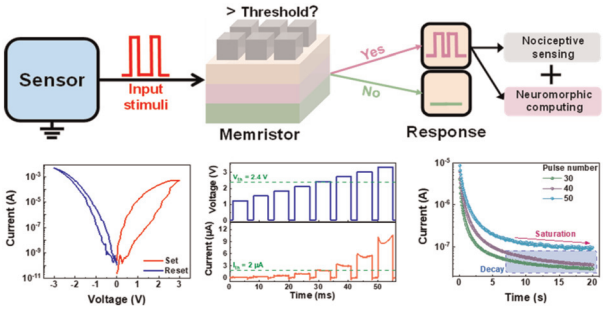
On-receptor computing with classical associative learning in semiconductor oxide memristors

Dongyeol Ju, Jungwoo Lee and Sungjun Kim*



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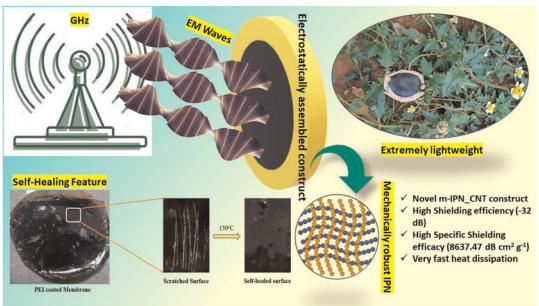
'Donor–acceptor', 'interpenetrating polymer network' and 'electrostatic self-assembly' work in tandem to achieve extraordinary specific shielding effectiveness

Amit Malakar, Samir Mandal, Ria Sen Gupta, Vinod Kashyap, Rishi Raj, Kunal Manna and Suryasarathi Bose*



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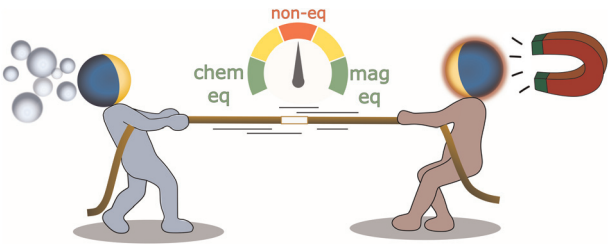
Accelerating and breaking adaptive nano-colloids (<100 nm) into unsteady state operation *via* push–pull effects

Cornelia Lanz, Nele Künnecke, Yaşar Krysiak and Sebastian Polarz*



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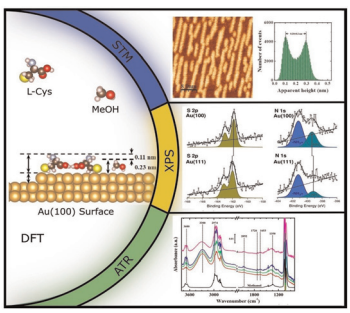
Novel mixed self-assembled monolayers of L-cysteine and methanol on gold surfaces under ambient conditions

Vanina Gisela Franco,* Sindy Julieth Rodríguez, Florencia Carolina Calaza, Mario César Guillermo Passeggi and Gustavo Daniel Ruano



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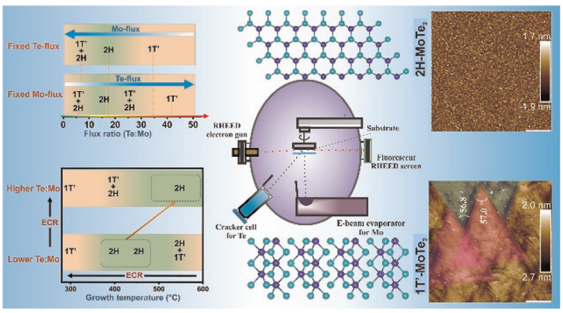

Effective concentration ratio driven phase engineering of MBE-grown few-layer $MoTe_2$

Kamlesh Bhatt, Santanu Kandar, Nand Kumar, Ashok Kapoor and Rajendra Singh*

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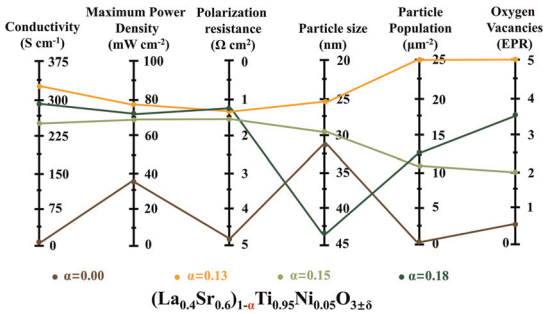

A-site-deficiency range identified for *in situ* exsolution from $(La_{0.4}Sr_{0.6})_{1-\alpha}Ti_{0.95}Ni_{0.05}O_{3\pm\delta}$ electrodes for SOFC and SOEC

Yao Jiang, Chengyu Li, Haonan Huang, Linxi Zhang, Jingyu Zhang, Cairong Jiang, Yongjin Chen,* Yali Yao* and Jianjun Ma*