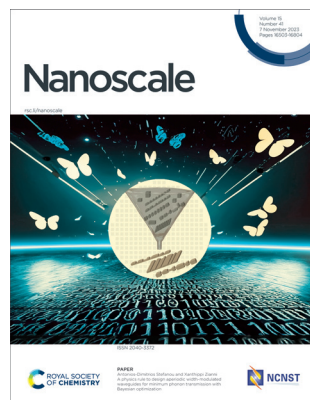


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See Antonios-Dimitrios Stefanou and Xanthippi Zianni, pp. 16571–16580.

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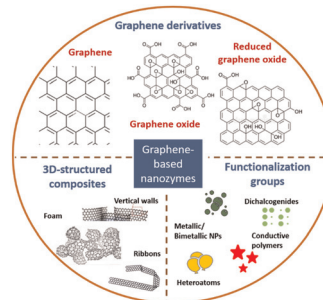
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REVIEW

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Enhancing electrochemical sensing through the use of functionalized graphene composites as nanozymes

Livia Alexandra Dinu and Sevinc Kurbanoglu*

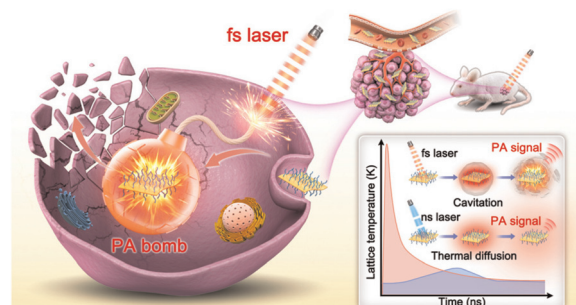


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NIR-II femtosecond laser ignites MXene as photoacoustic bomb for continuous high-precision tumor blasting

Jie Mi, Dandan Cui, Zhenhui Zhang, Gen Mu and Yujiao Shi*



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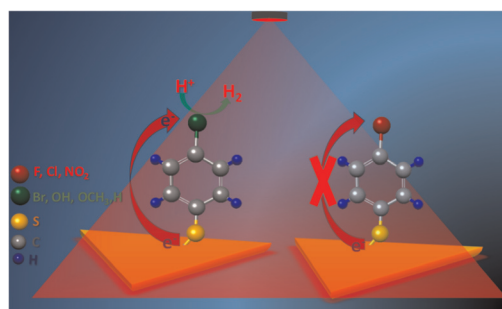


COMMUNICATIONS

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Ligand-mediated electron transport channels enhance photocatalytic activity of plasmonic nanoparticles

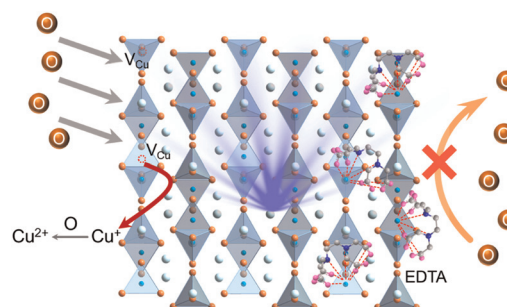
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A ligand strategy retarding monovalent copper oxidation toward $\text{Cs}_3\text{Cu}_2\text{I}_5$ perovskite emitters with enhanced stability for lighting

Wenxuan Fan, Kaishuai Zhang, Shalong Wang, Leimeng Xu,* Yingliang Liu* and Jizhong Song*

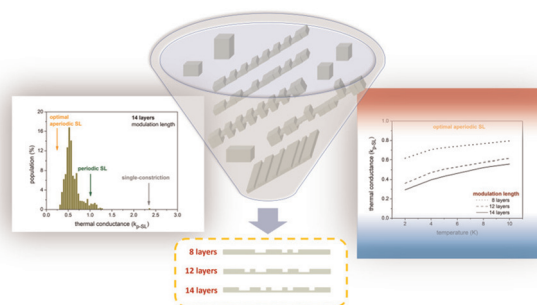


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A physics rule to design aperiodic width-modulated waveguides for minimum phonon transmission with Bayesian optimization

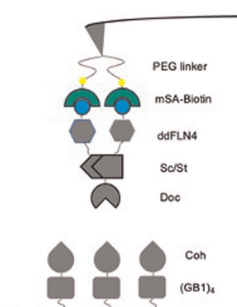
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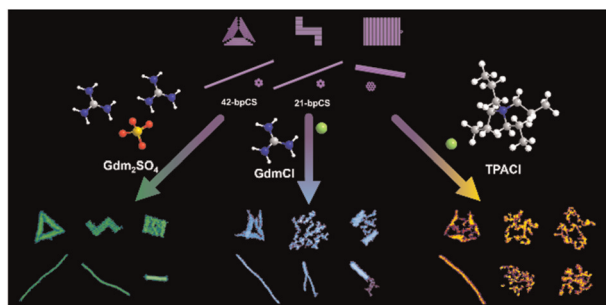
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Two molecule force spectroscopy on ligand–receptor interactions

Jiacheng Zuo, Hui Chen and Hongbin Li*



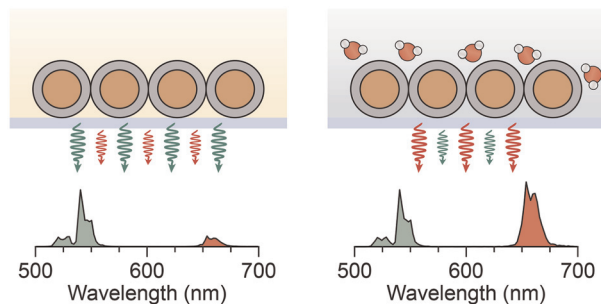
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Superstructure-dependent stability of DNA origami nanostructures in the presence of chaotropic denaturants

Marcel Hanke, Daniel Dornbusch, Emilia Tomm, Guido Grundmeier, Karim Fahmy* and Adrian Keller*

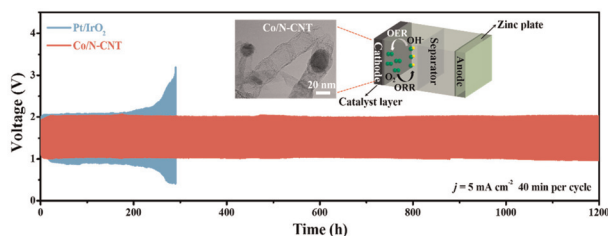
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Probing nearby molecular vibrations with lanthanide-doped nanocrystals

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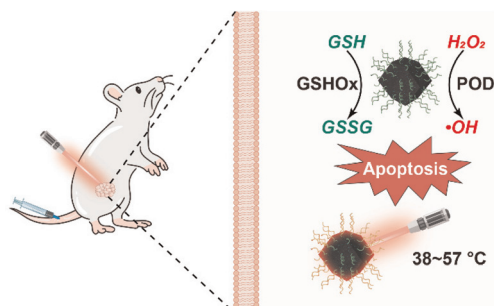
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"Setaria viridis"-like cobalt complex derived Co/N-doped carbon nanotubes as efficient ORR/OER electrocatalysts for long-life rechargeable Zn-air batteries

Shicheng Yi, Rong Xin, Xuxin Li, Yuying Sun, Mei Yang, Bei Liu, Hongbiao Chen, Huaming Li and Yijiang Liu*

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Bismuth nanoclusters on nitrogen-doped porous carbon nanoenzyme for cancer therapy

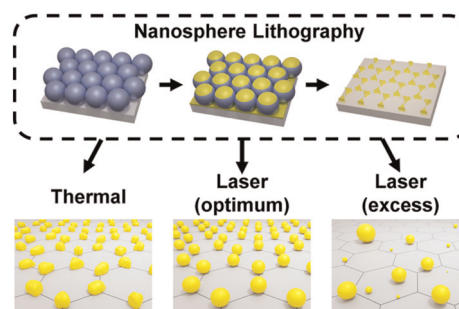
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Impact of thermal annealing and laser treatment on the morphology and optical responses of mono- and bi-metallic plasmonic honeycomb lattice

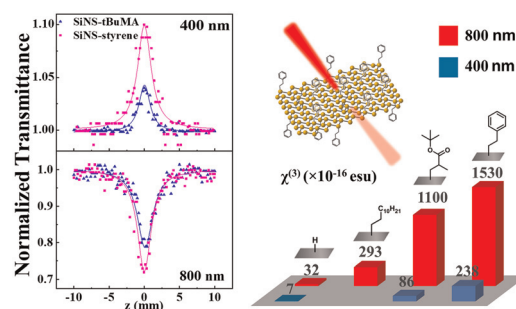
Yi-Ju Chen, Gabriele Schmidl, Andrea Dellith, Annett Gawlik, Guobin Jia, Thomas Bocklitz, Xiaofei Wu, Jonathan Plentz and Jer-Shing Huang*



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Exceptional ultrafast nonlinear optical response of functionalized silicon nanosheets

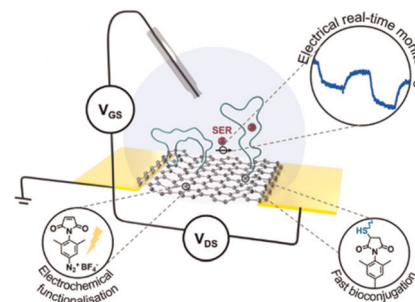
Michalis Stavrou, Amelie M. Mühlbach, Vasilios Arapakis, Elisabeth Groß, Tim Kratky, Sebastian Günther, Bernhard Rieger* and Stelios Couris*



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Covalent functionalisation controlled by molecular design for the aptameric recognition of serotonin in graphene-based field-effect transistors

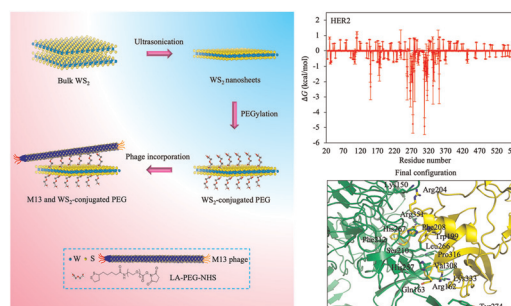
Cecilia Wetzl, Sergi Brosel-Oliu, Marco Carini, Desiré Di Silvio, Xavi Illa, Rosa Villa, Anton Guimera, Elisabet Prats-Alfonso,* Maurizio Prato* and Alejandro Criado*



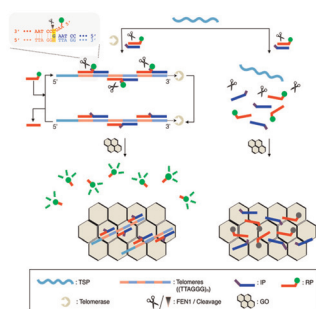
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Shape complementarity processes for ultrashort-burst sensitive M13-PEG-WS₂-powered MCF-7 cancer cell sensors

Maria P. Meivita, Shao-Xiang Go, Fitya S. Mozar, Lunna Li, Yaw Sing Tan, Natasa Bajalovic* and Desmond K. Loke*



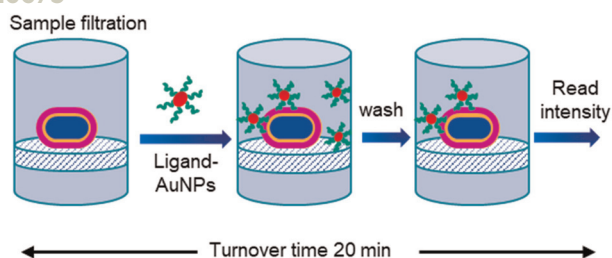
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Background-filtered telomerase activity assay with cyclic DNA cleavage amplification

Hyogu Han, Chihyun Park, Chang Yeol Lee* and Jun Ki Ahn*

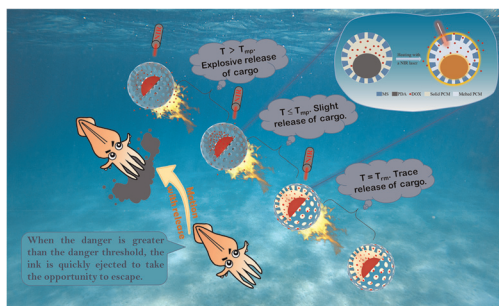
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A rapid total bacterial count method using gold nanoparticles conjugated with an aptamer for water quality assessment

Laura Sutarlie,* Heng Li Chee, Sian Yang Ow, Zainul Aabdin, Weng Weei Tjiu and Xiaodi Su*

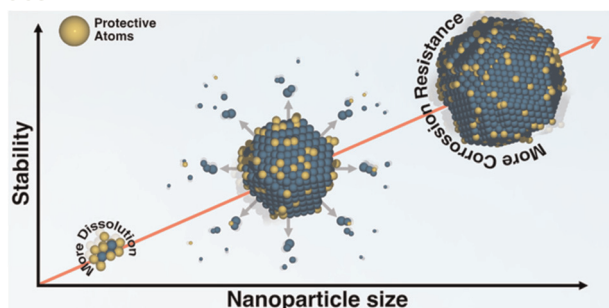
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Biomimetic submicromotor with NIR light triggered motion and cargo release inspired by cuttlefish

Jiameng Feng, Junjie Zou,* Xiaoyu Li and Xin Du*

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Tuning the chemical composition of binary alloy nanoparticles to prevent their dissolution

Luis A. Cipriano,* Henrik H. Kristoffersen, Renan L. Munhos, Rebecca Pittkowski, Matthias Arenz* and Jan Rossmeisl

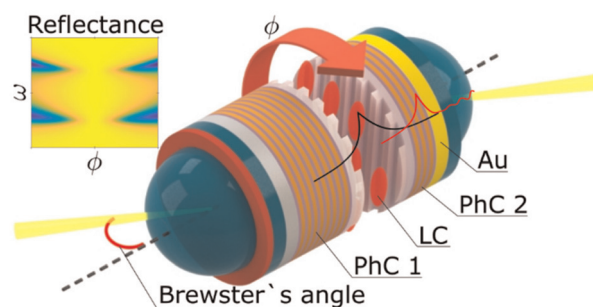


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Hybrid Tamm and quasi-BIC microcavity modes

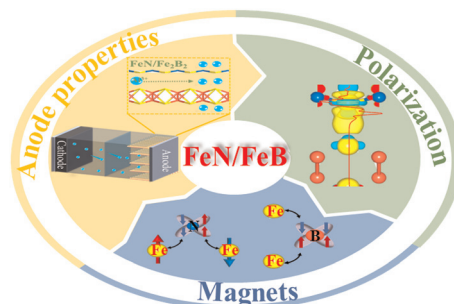
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Interlayer electronic coupling regulates the performance of FeN MXenes and Fe₂B₂ MBenes as high-performance Li- and Al-ion batteries

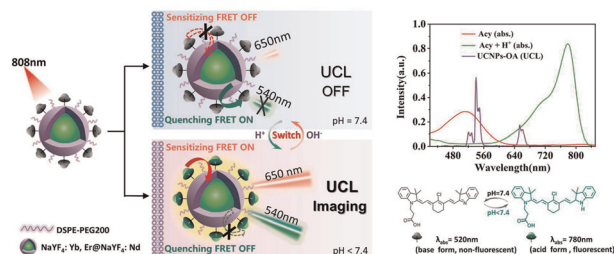
Jiafei Pang, Wenyuan Jin, Xiaoyu Kuang* and Cheng Lu*



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A dye-quenched/sensitized switching upconversion nanoprobe for high-contrast mapping of the pH-related tumor microenvironment

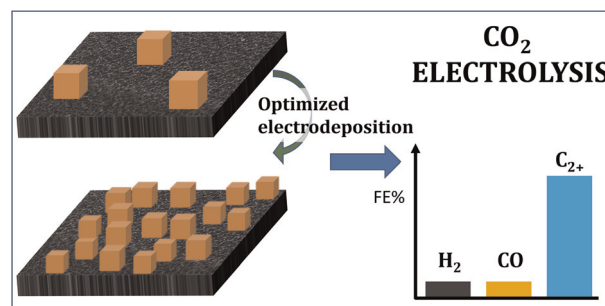
Limei He, Ye Li, Qin Zeng, Xipeng Li, Hongze Liang and Tao Zhang*



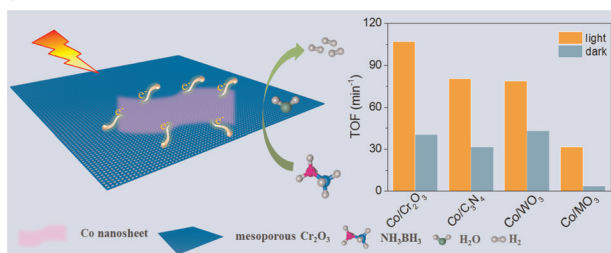
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One-step electrodeposition of binder-containing Cu nanocube catalyst layers for carbon dioxide reduction

Andrea Serfözö, Gábor András Csík, Attila Kormányos, Ádám Balog, Csaba Janáky and Balázs Endrödi*



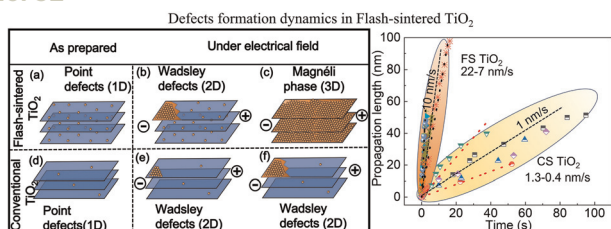
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Highly electron-deficient ultrathin Co nanosheets supported on mesoporous Cr₂O₃ for catalytic hydrogen evolution from ammonia borane

Jin Song and Fenglong Wu*

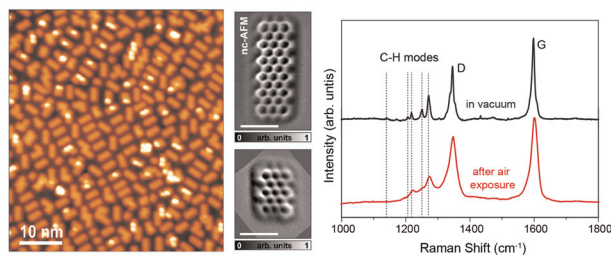
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In situ studies on defect formation dynamics in flash-sintered TiO₂

Sichuang Xue,* Xin Li Phuah, Jie Jian, Qiang Li, Jin Li, Bo Yang, Di Zhang, Han Wang, Thomas Tsakalakos, Amiya K. Mukherjee, Haiyan Wang* and Xinghang Zhang*

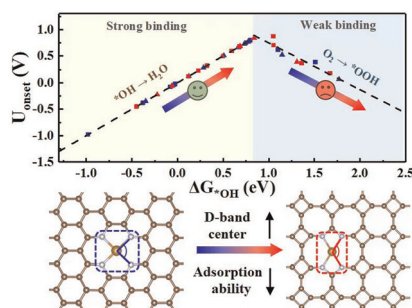
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On-surface synthesis and characterization of teranthene and hexanethene: ultrashort graphene nanoribbons with mixed armchair and zigzag edges

Gabriela Borin Barin,* Marco Di Giovannantonio, Thorsten G. Lohr, Shantanu Mishra, Amogh Kinikar, Mickael L. Perrin, Jan Overbeck, Michel Calame, Xinliang Feng, Roman Fasel and Pascal Ruffieux*

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Novel 2D carbon material T-graphene supported 3d transition metal single atoms as efficient oxygen reduction catalysts

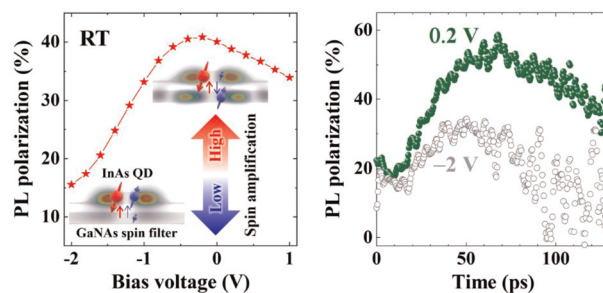
Run Jiang, Zelong Qiao, Haoxiang Xu and Dapeng Cao*



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Room-temperature electric field control of spin filtering efficiency for enhanced modulation of optical spin polarization in a defect-functional 0D–2D hybrid nanostructure

Soyoung Park, Satoshi Hiura,* Hiroto Kise, Junichi Takayama, Kazuhisa Sueoka and Akihiro Murayama



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Self-templated flower-like NiCoZn-carbonate hydroxide hollow nanospheres for asymmetric supercapacitors with high performance

Rongrong Liu, Xin Gao, Yanqiu Xie, Qinhan Liu, Kai Zhang, Yijia Sun, He Bai, Fei Yao and Hongyan Yue*

