

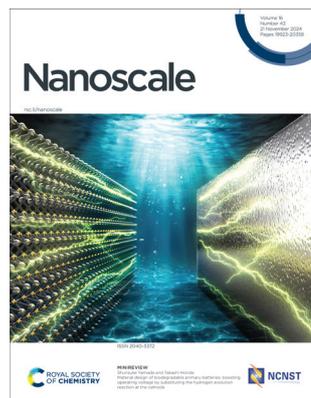
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Developments, challenges and future trends in advanced sustainable machining technologies for preparing array micro-holes

Yang Liu, Pengfei Ouyang, Zhaoyang Zhang,* Hao Zhu,* Xiaolei Chen, Yufeng Wang, Benkai Li, Kun Xu, Jingtao Wang and Jinzhong Lu



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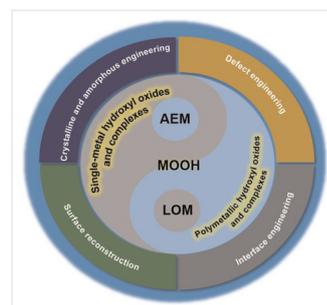
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Recent advances in the synthesis of transition metal hydroxyl oxide catalysts and their application in electrocatalytic oxygen evolution reactions

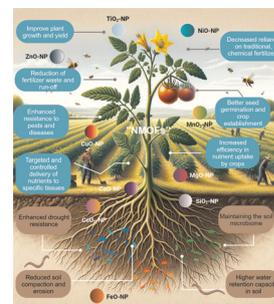
Zhi-Jie Zhang, Hui-Min Xu, Chen-Jin Huang, Ting-Yu Shuai, Qi-Ni Zhan and Gao-Ren Li*



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Nano-sized metal oxide fertilizers for sustainable agriculture: balancing benefits, risks, and risk management strategies

Raja Muthuramalingam Thangavelu,*
Washington Luis da Silva,* Nubia Zuverza-Mena,
Christian O. Dimkpa and Jason C. White

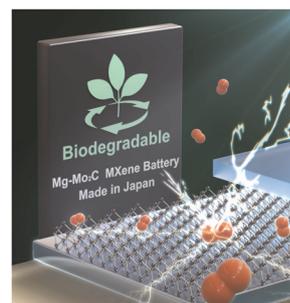


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Material design of biodegradable primary batteries: boosting operating voltage by substituting the hydrogen evolution reaction at the cathode

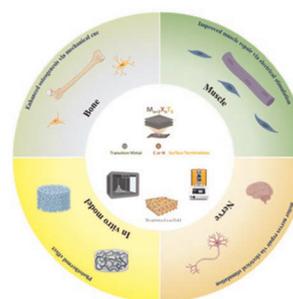
Shunsuke Yamada* and Takashi Honda



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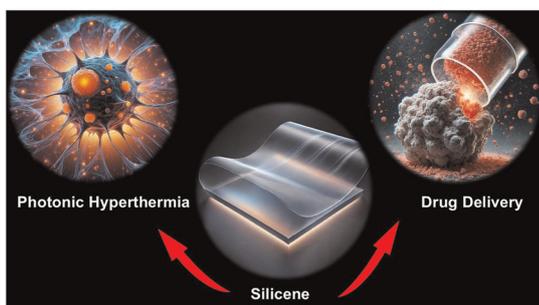
Unlocking new possibilities: application of MXenes in 3D bioprinting for advanced therapy

Yusuf Olatunji Waidi* and Nipun Jain



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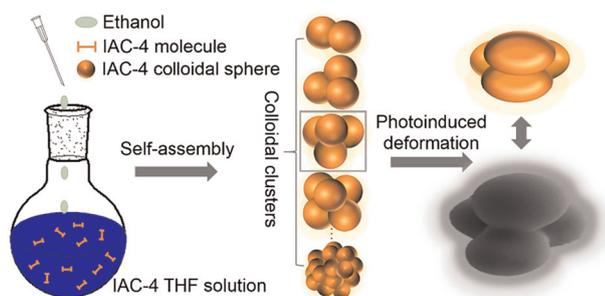


Two-dimensional silicene-based technologies in oncology: an emerging avenue

Joydip Sengupta and Chaudhery Mustansar Hussain*

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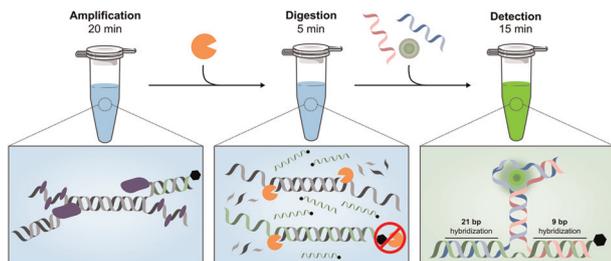
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Photomanipulatable colloidal clusters from the aggregation of azo molecular glass spheres

Bo Tang,* Lier Wang, Xitong Ai, Chuyi Liao, Zhiyuan Xiong, Yaning He and Xiaogong Wang*

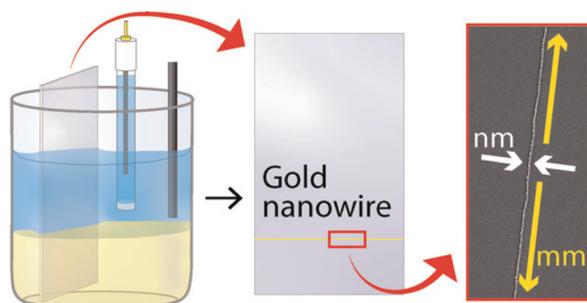
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Nucleic acid detection with single-base specificity integrating isothermal amplification and light-up aptamer probes

Jaekyun Baek, Jihyun Park and Youngeun Kim*

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Single gold nanowires with ultrahigh ($>10^4$) aspect ratios by triphasic electrodeposition

Guillermo Colón-Quintana, Thomas B. Clarke, Sakshi A. Ailawar and Jeffrey E. Dick*

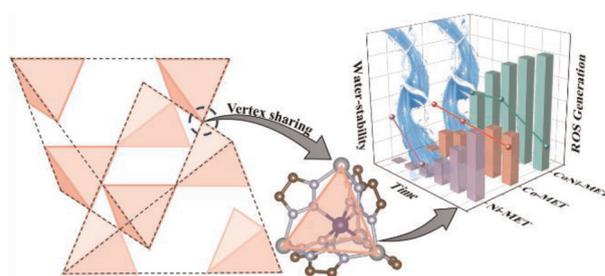


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Dual metal centers within a water-stable Co/Ni bimetallic metal-triazolate framework contribute to durable photocatalysis for water treatment

Minling Zheng, Yubo Liu, Qifu Zhang, Wenjing Li, Yong Zhang, Guangxue Feng, Yating Hu* and Shaoming Huang

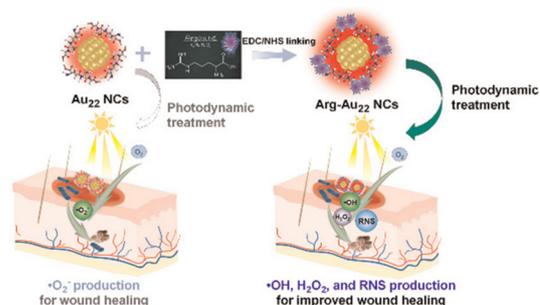


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Modulating the photodynamic modality of Au₂₂ nanoclusters through surface conjugation of arginine for promoted healing of bacteria-infected wounds

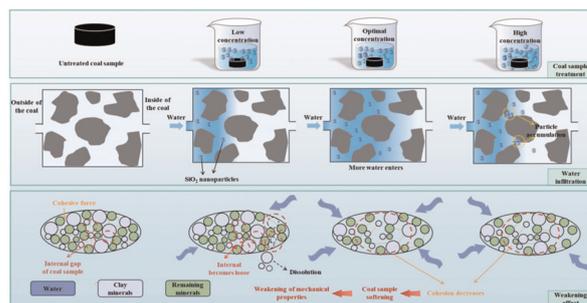
Xinyue Dou,* Sariah Saalah, Chel-Ken Chiam, Jianping Xie* and Coswald Stephen Sipaut*



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Effect of SiO₂ nanofluid concentration on micro-mechanical weakening behavior of coal

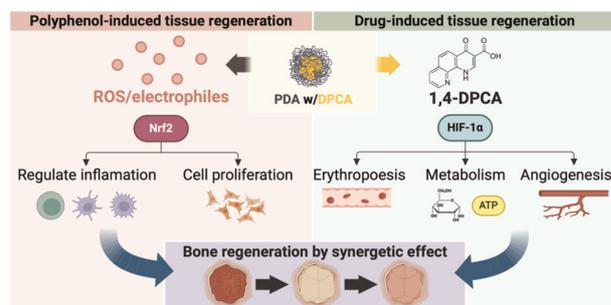
Quanle Zou, Bochao Xu,* Weizhi Wang, Yulin Hu, Ting Liu,* Qingsong Li, Tengfei Ma, Haolong Zheng and Zixuan Huo



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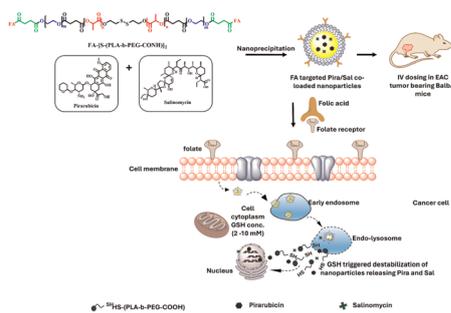
Synergistic effect of ROS-generating polydopamine on drug-induced bone tissue regeneration

Hyeju Han, Bongkyun Kang, Shazid Md. Sharker, Tabassum Binte Kashem, Yuejin Kim, Jeehee Lee, Minok Park, Eunjeong Kim, YunJae Jung, Jinkyu Lim,* Seungwon Ryu* and Kyueui Lee*



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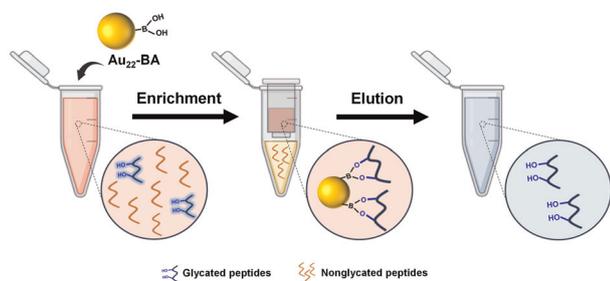
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Folic acid-targeted redox responsive poly(lactic acid)-based nanoparticles co-delivering pirarubicin and salinomycin suppress breast cancer tumor growth *in vivo*

Priya Gupta, Ankushi Bansal,* Harshdeep Kaur, Mohd Anees, Neetu Singh and Harpal Singh*

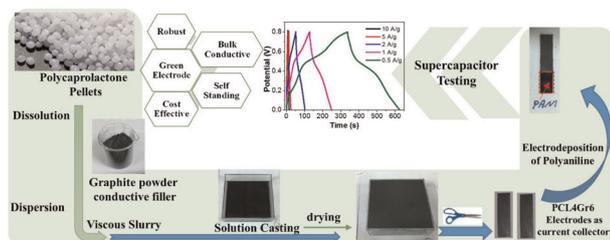
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Effective enrichment of glycosylated proteome using ultrasmall gold nanoclusters functionalized with boronic acid

Hongmae Heo, Seonghyeon Cho, Yuhyeon Kim, Soomin Ahn, Jeong-hun Mok, Hookeun Lee* and Dongil Lee*

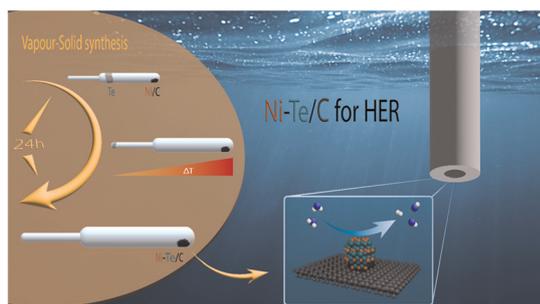
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An eco-friendly polycaprolactone/graphite composite as a robust freestanding electrode platform for supercapacitive energy storage

Rajeev Gupta* and Monika Singhal

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Active site engineering of intermetallic nanoparticles by the vapour–solid synthesis: carbon black supported nickel tellurides for hydrogen evolution

Daniel Garstenauer, Patrick Guggenberger, Ondřej Zobač, Franz Jirsa and Klaus W. Richter*

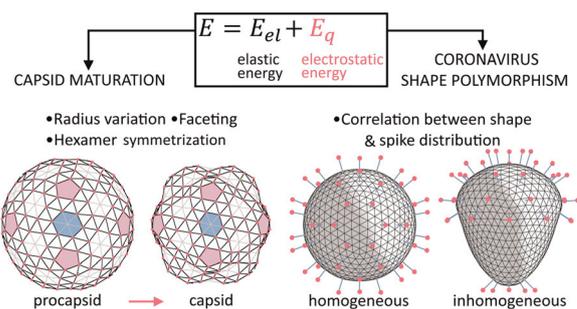


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Electrostatic interactions and structural transformations in viral shells

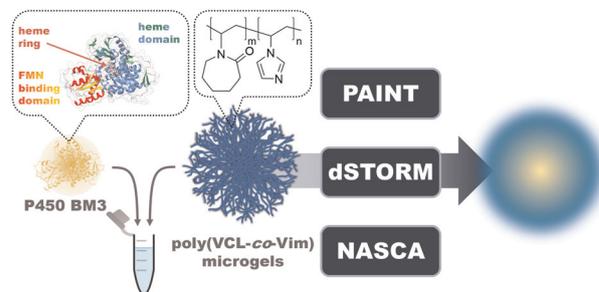
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Nanoscopic visualization of microgel-immobilized cytochrome P450 enzymes and their local activity

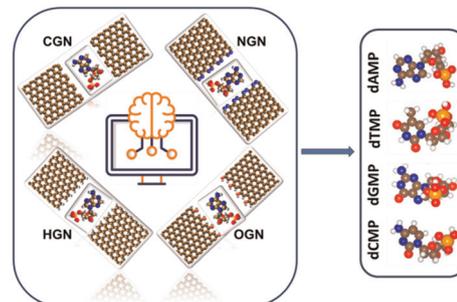
Lukas Schubert, Chiara Nenninger, Maximilian Nöth, Thomke Belthle, Robert Dirk de Lange, Andrij Pich, Ulrich Schwaneberg and Dominik Wöll*



20202

Effect of graphene electrode functionalization on machine learning-aided single nucleotide classification

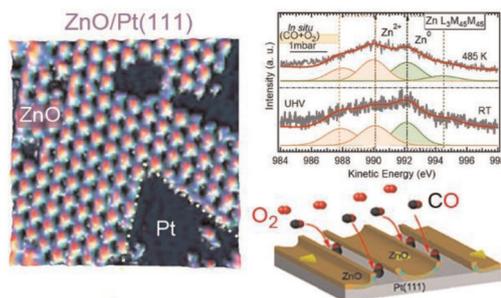
Mohd Rashid, Milan Kumar Jena, Sneha Mittal and Biswarup Pathak*



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Morphology–electronic effects in ultra-model nanocatalysts under the CO oxidation reaction: the case of ZnO ultrathin films grown on Pt(111)

Hang Liu, Lei Zhang, Sébastien Lebègue, Fabrice Bournel, Jean-Jacques Gallet and Ahmed Naitabdi*

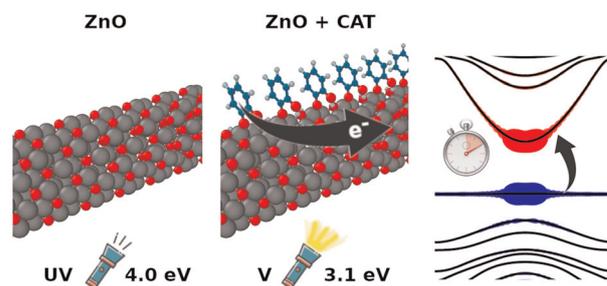


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Rationalization of the light-induced electron injection mechanism in a model 1D ZnO nanowire-dye complex: insights from real-time TD-DFTB simulations

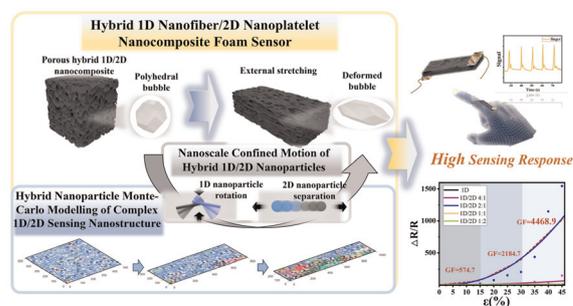
Dalma M. Márquez, Carlos R. Lien-Medrano,* Germán J. Soldano and Cristián G. Sánchez*



20288

High sensing performance flexible nanocomposite sensor with a hybrid nanostructure constructed via nanoscale confined motion of nanofibers and nanoplatelets

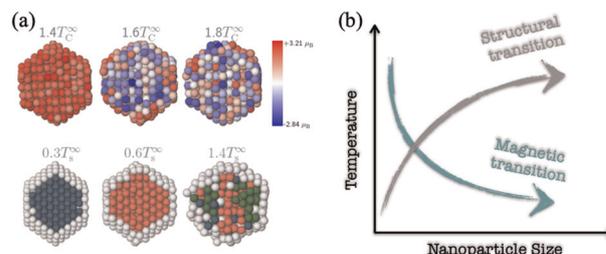
Zhenghui Xie, Feiran Meng, Junlong Yang, Yuhong Wang, Chul B. Park, Pengjian Gong* and Guangxian Li



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Size effect on the structural and magnetic phase transformations of iron nanoparticles

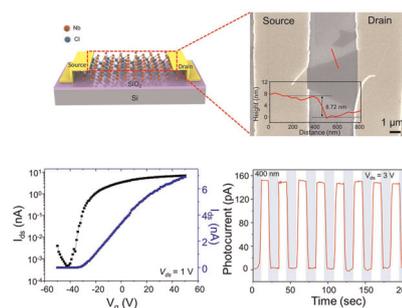
Alexis Front, Georg Daniel Förster, Chu Chun Fu, Cyrille Barreteau and Hakim Amara



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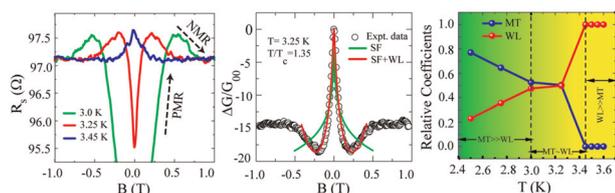
A negative photoconductivity photodetector based on two-dimensional Nb_3Cl_8

Bom Lee, Xiaojie Zhang, Jinsu Kang, Byung Joo Jeong, Sooheon Cho, Kyung Hwan Choi, Jiho Jeon, Sang Hoon Lee, Dahoon Kim, Yeong Hyeop Kim, Ji-Hee Kim,* Hak Ki Yu* and Jae-Young Choi*



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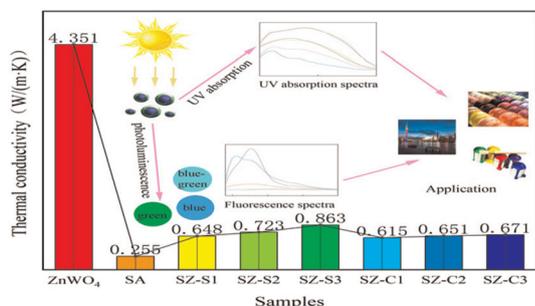
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Interplay between superconducting fluctuations and weak localization in disordered TiN thin films

Sachin Yadav, Bikash Gajar, R. P. Aloysius and Sangeeta Sahoo*

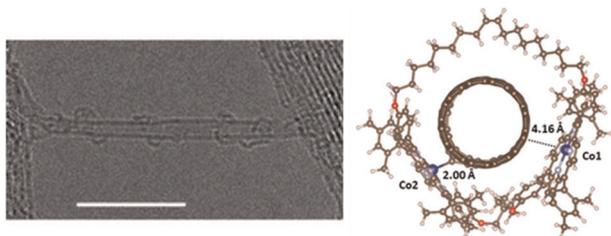
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Preparation and application of high thermal conductivity phase change microcapsules with fluorescence characteristics based on a ZnWO₄ shell

H. Cheng, B. Tang,* H. Y. Bao, F. Shan and C. X. Lu

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Magnetic dimeric metal–porphyrin rings mechanically bonded around carbon nanotubes: the role of nanotube defects modulating magnetic properties

Rocío Sánchez-de-Armas,* Nicolás Montenegro-Pohlhammer, Emilio M. Pérez, Enrique Burzurí and Carmen J. Calzado

CORRECTION

20354

Correction: Ce6-Conjugated and polydopamine-coated gold nanostars with enhanced photoacoustic imaging and photothermal/photodynamic therapy to inhibit lung metastasis of breast cancer

Ziwei Li, Fan Yang, Di Wu,* Yanhong Liu, Yang Gao, Haichen Lian, Hongxin Zhang, Zhibin Yin, Aiguo Wu* and Leyong Zeng*



RETRACTION

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Retraction: Enhanced activity of vancomycin by encapsulation in hybrid magnetic nanoparticles conjugated to a cell-penetrating peptide

Wenjie Zhang, Reza Taheri-Ledari, Zoleikha Hajizadeh, Ehsan Zolfaghari, Mohammad Reza Ahghari, Ali Maleki,*
Michael R. Hamblin* and Ye Tian*

