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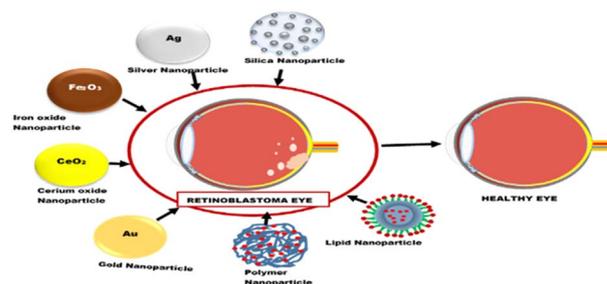
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See Giuseppe Pomarico, Annalisa Radeghieri *et al.*, pp. 4703–4717. Image reproduced by permission of Andrea Zendrini from *Nanoscale Adv.*, 2023, 5, 4703.

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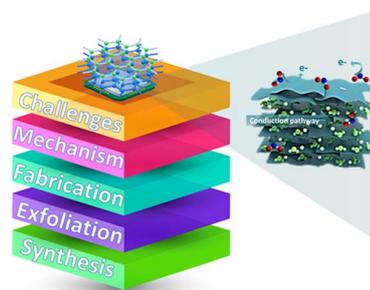
Adaeze Linda Onugwu,* Onyinyechi Lydia Ugorji, Chinasa A. Ufondu, Stella Amarachi Ihim, Adaeze Chidiebere Echezona, Chinekwu Sherridan Nwagwu, Sabastine Obinna Onugwu, Samuel WisdomofGod Uzundu, Chinazom Precious Agbo, John Dike Ogbonna and Anthony Amaechi Attama*



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Sithara Radhakrishnan and Chandra Sekhar Rout*



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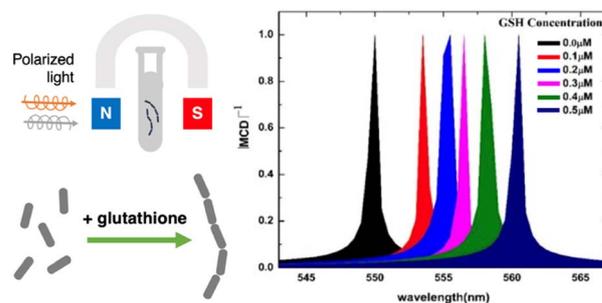
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Magnetoplasmonic gold nanorods for the sensitive and label-free detection of glutathione

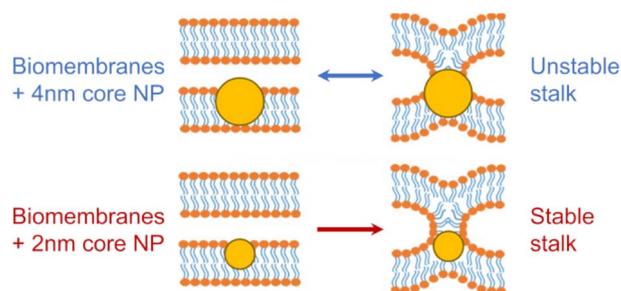
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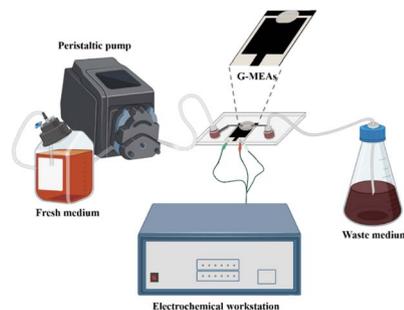
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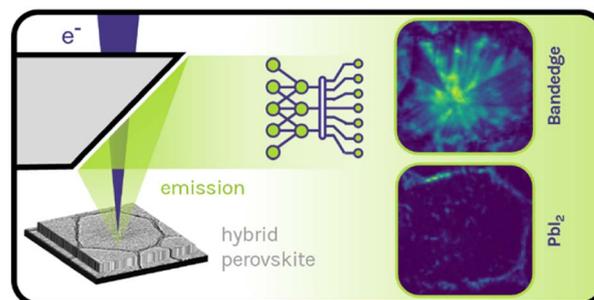
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Ethan J. Taylor, Vasudevan Iyer, Bibek S. Dhimi, Clay Klein, Benjamin J. Lawrie* and Kannatassen Appavoo*



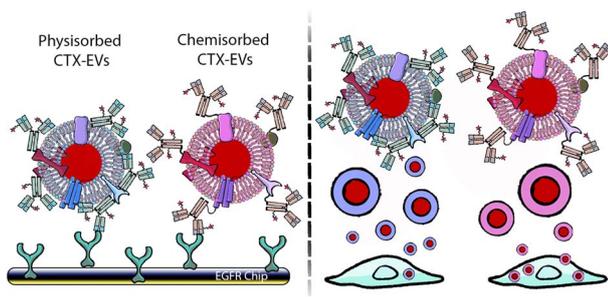
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Wafer-scale detachable monocrystalline germanium nanomembranes for the growth of III–V materials and substrate reuse

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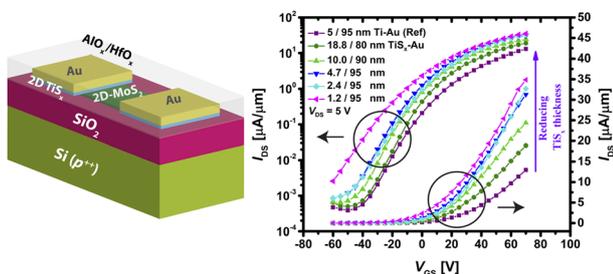
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Surface functionalization of extracellular vesicle nanoparticles with antibodies: a first study on the protein corona "variable"

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ALD-grown two-dimensional TiS_x metal contacts for MoS_2 field-effect transistors

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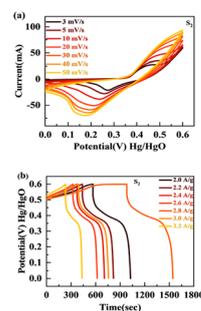
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Synergistic redox enhancement: silver phosphate augmentation for optimizing magnesium copper phosphate in efficient energy storage devices and oxygen evolution reaction

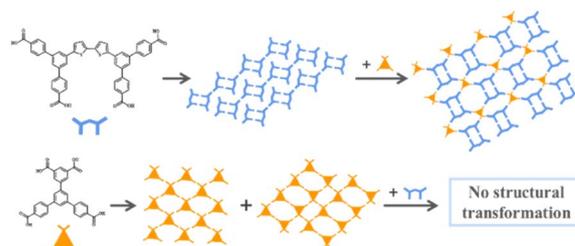
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Two-dimensional self-assembly and co-assembly of two tetracarboxylic acid derivatives investigated by STM

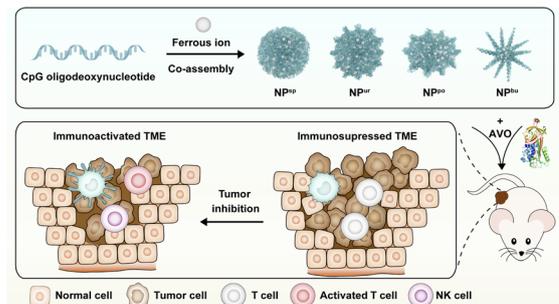
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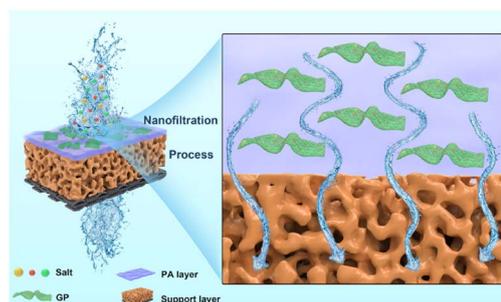
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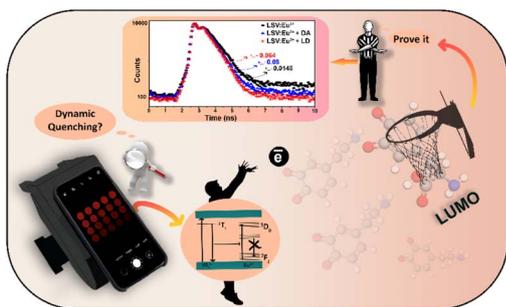
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Regulating the thickness of nanofiltration membranes for efficient water purification

Ke Tang, LinSheng Zhu, Piao Lan, YunQiang Chen, Zhou Chen,* Yihong Lan and WeiGuang Lan*



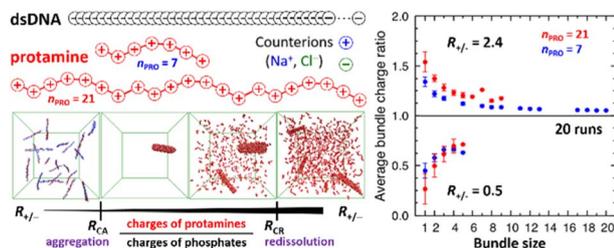
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A bacterial cellulose-based $\text{LiSrVO}_4:\text{Eu}^{3+}$ nanosensor platform for smartphone sensing of levodopa and dopamine: point-of-care diagnosis of Parkinson's disease

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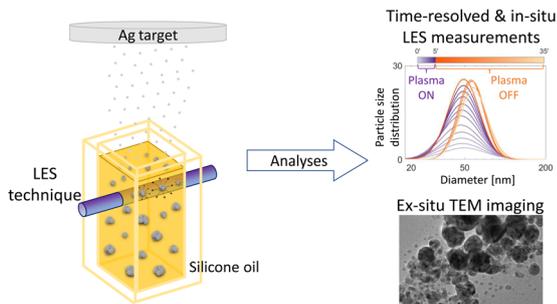
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DNA-protamine condensates under low salt conditions: molecular dynamics simulation with a simple coarse-grained model focusing on electrostatic interactions

Yun Hee Jang,* Eric Raspaud and Yves Lansac*

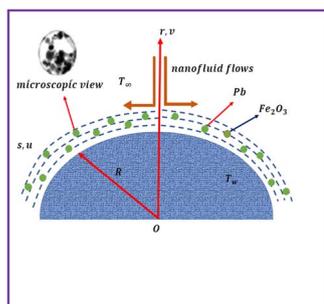
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Time-resolved *in situ* nanoparticle size evolution during magnetron sputtering onto liquids

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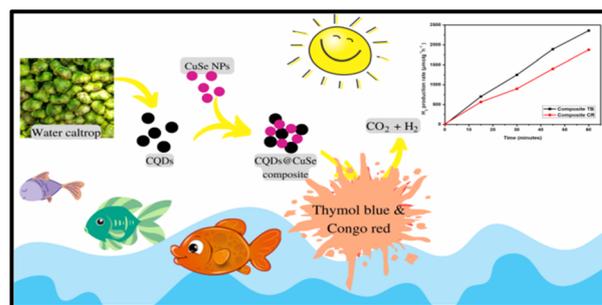
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Revolutionizing fuel production through biologically synthesized zero-dimensional nanoparticles

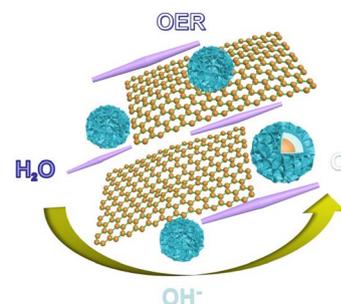
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High-performance flower-like and biocompatible nickel-coated $\text{Fe}_3\text{O}_4@\text{SiO}_2$ magnetic nanoparticles decorated on a graphene electrocatalyst for the oxygen evolution reaction

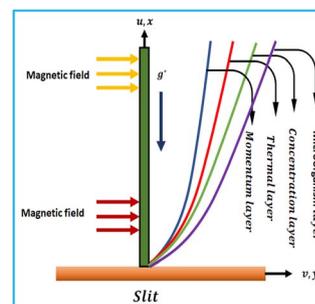
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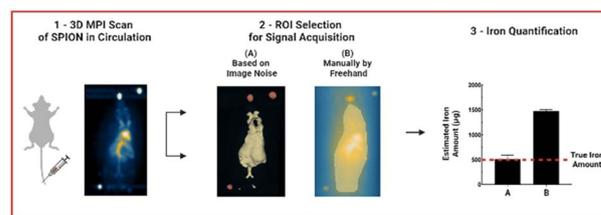
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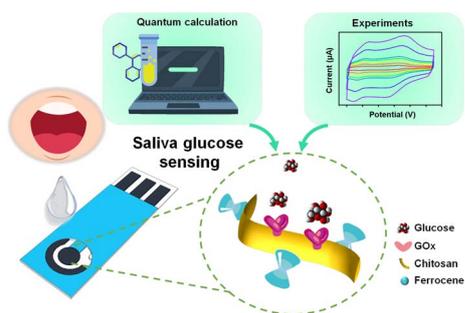
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Progress in magnetic particle imaging signal and iron quantification methods *in vivo* – application to long circulating SPIONs

Jurie Tashkandi, Robert Brkljača and Karen Alt*



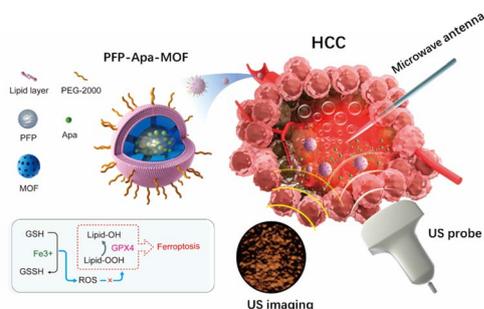
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Dipole moment as the underlying mechanism for enhancing the immobilization of glucose oxidase by ferrocene-chitosan for superior specificity non-invasive glucose sensing

Jo-Han Ting, Po-Chuan Lin, Shivam Gupta, Ching-Hao Liu, Tzuhsiung Yang, Chi-Young Lee, Yi-Ting Lai* and Nyan-Hwa Tai*

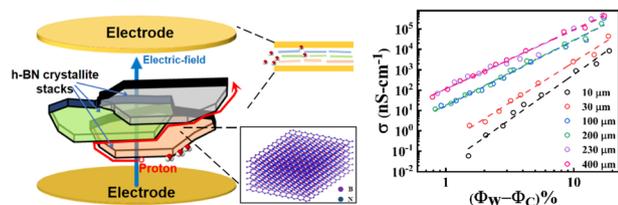
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Perfluoropentane/apatinib-encapsulated metal-organic framework nanoparticles enhanced the microwave ablation of hepatocellular carcinoma

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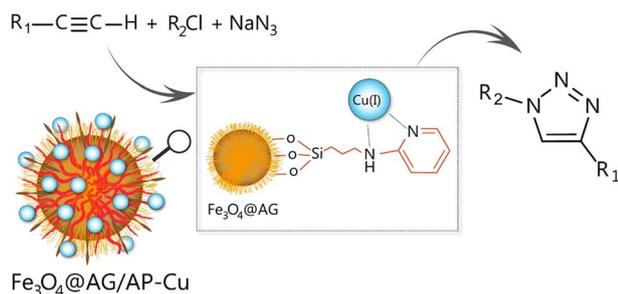
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Percolative proton transport in hexagonal boron nitride membranes with edge-functionalization

Anjan Das, Vikas Yadav, C. V. Krishnamurthy* and Manu Jaiswal*

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Fast synthesis of [1,2,3]-triazole derivatives on a Fe/Cu-embedded nano-catalytic substrate

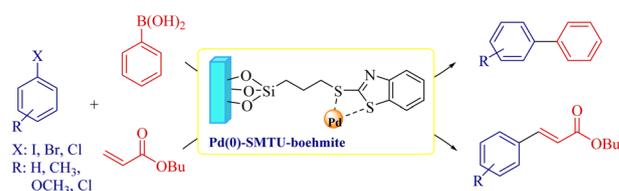
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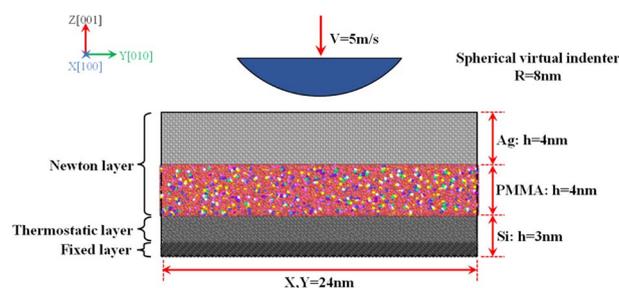
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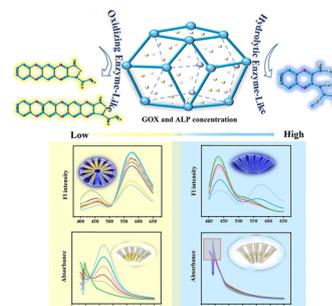
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Rapid and sensitive detection of alkaline phosphatase and glucose oxidase activity through fluorescence and colorimetric dual-mode analysis based on CuO NPs@ZIF-8 mediated enzyme-cascade reactions

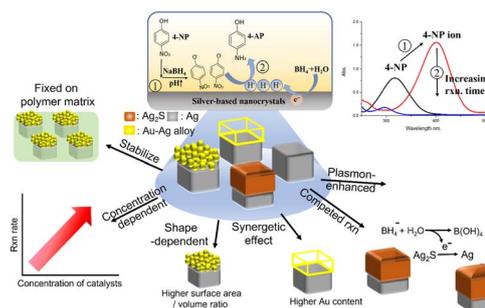
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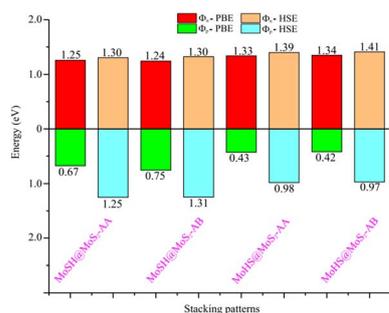
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Effect of morphologies and compositions of silver-based multicomponent heterogeneous nanocrystals on the reduction of 4-nitrophenol

Ming-Shiuan Huang, Hsien-Tai Cheng and Su-Wen Hsu*



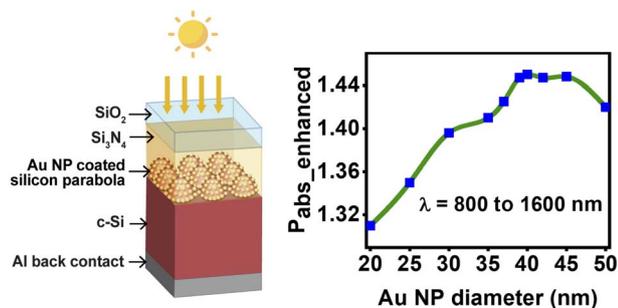
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First-principles investigations of metal–semiconductor MoSH@MoS₂ van der Waals heterostructures

Son-Tung Nguyen, Cuong Q. Nguyen,* Nguyen N. Hieu, Huynh V. Phuc and Chuong V. Nguyen

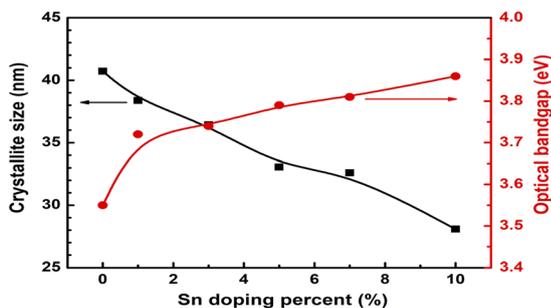
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Plasmon-enhanced parabolic nanostructures for broadband absorption in ultra-thin crystalline Si solar cells

Yeasin Arafat Pritom, Dipayon Kumar Sikder, Sameia Zaman and Mainul Hossain*

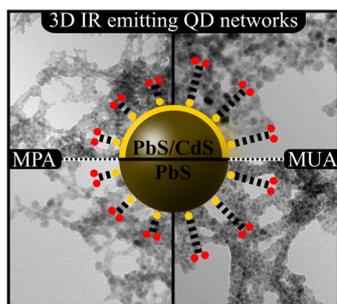
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Influence of Sn doping on the optoelectronic properties of ZnO nanoparticles

Nadim Munna, Rahim Abdur, Robiul Islam, Muhammad Shahriar Bashar, Syed Farid Uddin Farhad, Md. Kamruzzaman, Shahin Aziz, Md. Aftab Ali Shaikh, Mosharof Hossain and Mohammad Shah Jamal*

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Optical properties of NIR photoluminescent PbS nanocrystal-based three-dimensional networks

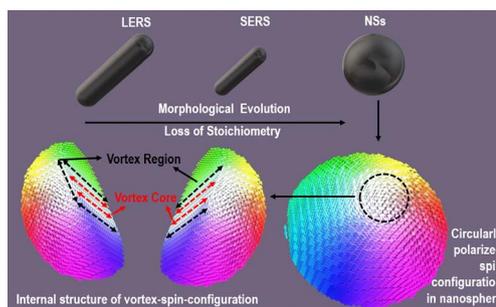
Denis Pluta, Henning Kuper, Rebecca T. Graf, Christoph Wesemann, Pascal Rusch, Joerg August Becker and Nadja C. Bigall*



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Observation of magnetic vortex configuration in non-stoichiometric Fe_3O_4 nanospheres

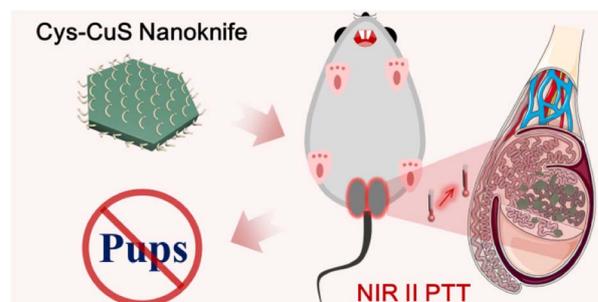
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5029

A biocompatible NIR-II light-responsive nanoknife for permanent male sterilization

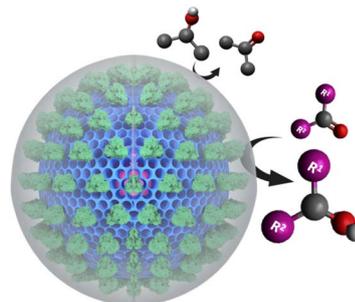
Haoyu Wang, Xiaomeng Yue, Huanhuan Wu, Yeda Wan, Yujie Tong, Yang Zhao, Yijun Li and Jinbin Pan*



5036

Nanobiocatalysts with inbuilt cofactor recycling for oxidoreductase catalysis in organic solvents

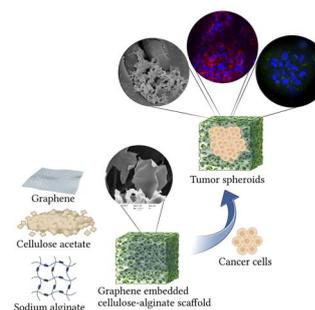
Jenny Sahlin, Congyu Wu, Andrea Buscemi, Claude Schärer, Seyed Amirabbas Nazemi, Rejaul S. K., Nataly Herrera-Reinoza, Thomas A. Jung and Patrick Shahgaldian*



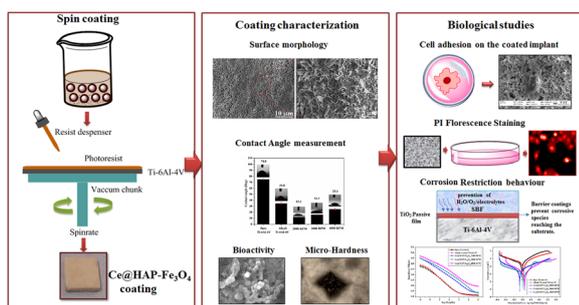
5045

Fabricating a low-temperature synthesized graphene-cellulose acetate-sodium alginate scaffold for the generation of ovarian cancer spheroid and its drug assessment

Pooja Suryavanshi, Yohaam Kudtarkar, Mangesh Chaudhari and Dhananjay Bodas*



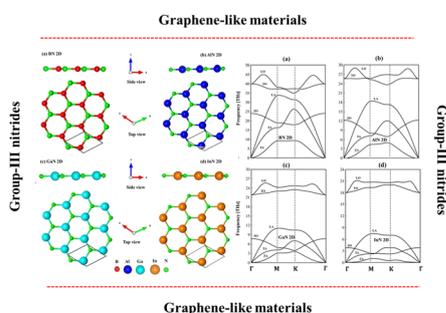
5054



In situ fabrication of cerium-incorporated hydroxyapatite/magnetite nanocomposite coatings with bone regeneration and osteosarcoma potential

B. Priyadarshini, Arul Xavier Stango, M. Balasubramanian and U. Vijayalakshmi*

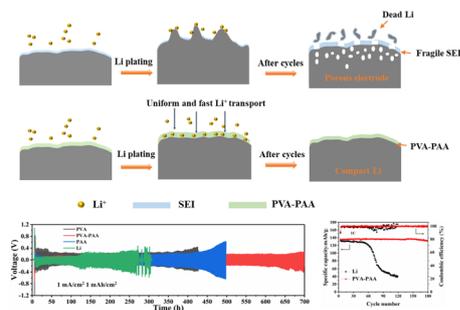
5077



Optical excitations of graphene-like materials: group III-nitrides

Nguyen Thi Han,* Vo Khuong Dien, Tay-Rong Chang* and Ming-Fa Lin

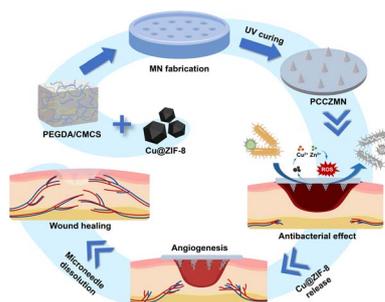
5094



A hybrid polymer protective layer with uniform Li^+ flux and self-adaption enabling dendrite-free Li metal anodes

Chaohui We, Jinxiang Deng, Jianxiang Xing, Zihao Wang, Zhicui Song, Donghuan Wang, Jicheng Jiang, Xin Wang, Aijun Zhou, Wei Zou and Jingze Li*

5102



A Cu@ZIF-8 encapsulated antibacterial and angiogenic microneedle array for promoting wound healing

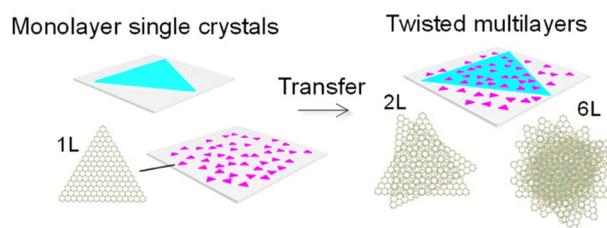
Jieyu Xiang, Yufan Zhu, Yuanlong Xie, Hang Chen, Ling Zhou, Danyang Chen, Jia Guo, Min Wang,* Lin Cai* and Liang Guo*



5115

High-throughput dry transfer and excitonic properties of twisted bilayers based on CVD-grown transition metal dichalcogenides

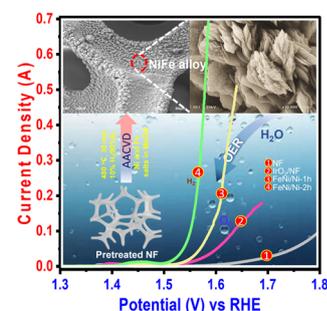
Hibiki Naito, Yasuyuki Makino, Wenjin Zhang,*
Tomoya Ogawa, Takahiko Endo, Takumi Sannomiya,
Masahiko Kaneda, Kazuki Hashimoto, Hong En Lim,
Yusuke Nakanishi, Kenji Watanabe, Takashi Taniguchi,
Kazunari Matsuda and Yasumitsu Miyata*



5122

Facile deposition of FeNi/Ni hybrid nanoflower electrocatalysts for effective and sustained water oxidation

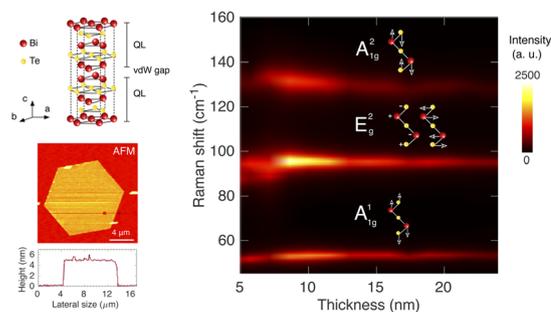
Muhammad Ali Ehsan, Abuzar Khan,* Munzir H. Suliman
and Mohamed Javid



5131

Raman spectroscopy of a few layers of bismuth telluride nanoplatelets

Victor Carozo,* Bruno R. Carvalho, Syed Hamza Safeer,
Leandro Seixas, Pedro Venezuela and Mauricio Terrones



5137

Microwave synthesis of antimony oxide graphene nanoparticles – a new electrode material for supercapacitors

Precious Ekwere,* Miranda Ndipingwi, Christopher Nolly,
Chinwe Ikpo and Emmanuel Iwuoha*

