

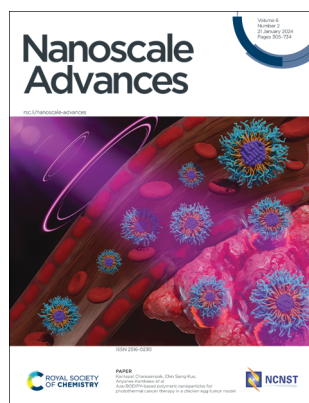
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See Kantapat Chansaenpak, Chin Siang Kue, Anyanee Kamkaew *et al.*, pp. 406–417. Image reproduced by permission of Kantapat Chansaenpak from *Nanoscale Adv.*, 2024, 6, 406.



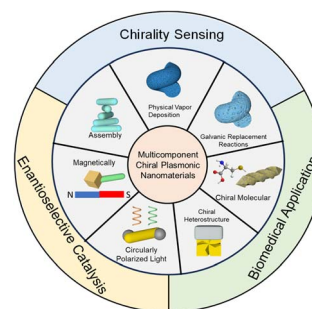
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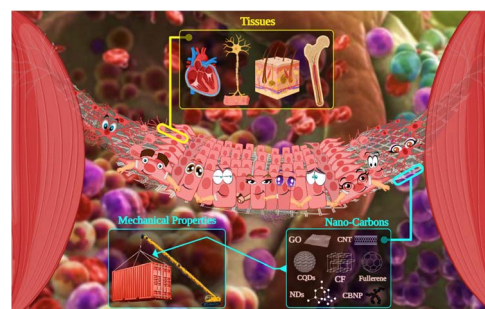
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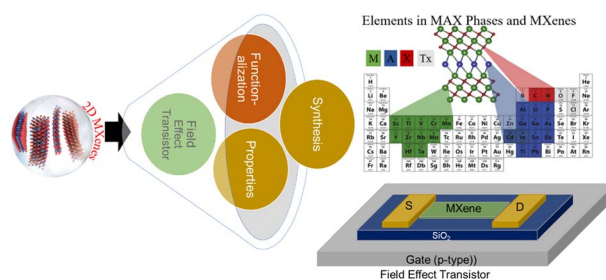
Fundamental questions
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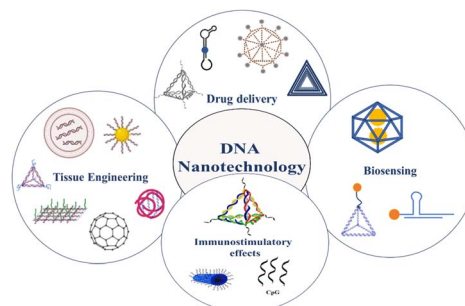
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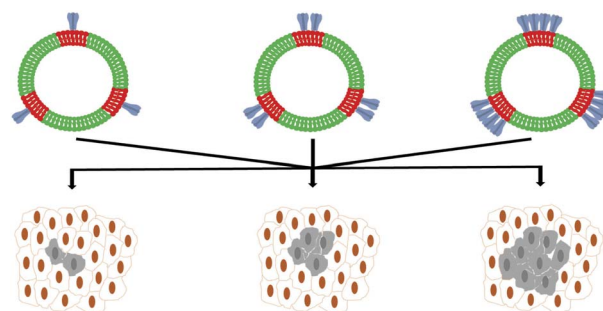


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Zhenjiang Zhang and Michael R. King*

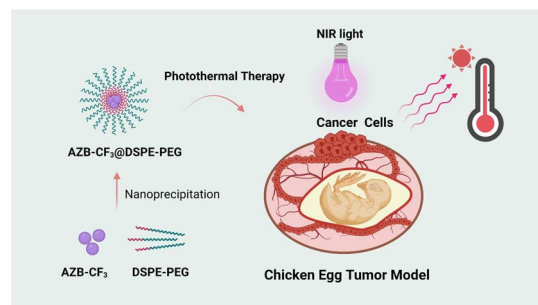


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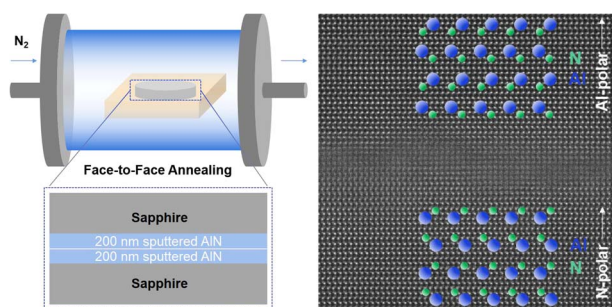
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Aza-BODIPY-based polymeric nanoparticles for photothermal cancer therapy in a chicken egg tumor model

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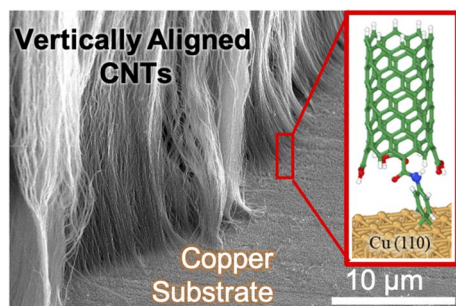
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The AlN lattice-polarity inversion in a high-temperature-annealed c-oriented AlN/sapphire originated from the diffusion of Al and O atoms from sapphire

Ke Jiang, Jianwei Ben, Xiaojuan Sun,* Zhiming Shi, Xianjun Wang, Tong Fang, Shanli Zhang, Shunpeng Lv, Yang Chen, Yiping Jia, Hang Zang, Mingrui Liu and Dabing Li*

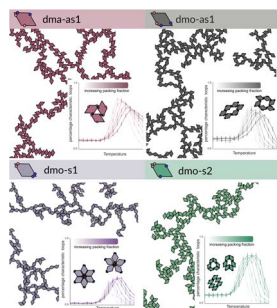
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Chaminda P. Nawarathne, Diego Galvez Aranda, Abdul Hoque, Gabrielle R. Dangel, Jorge M. Seminario* and Noe T. Alvarez*

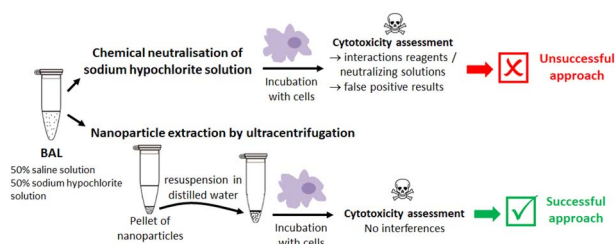
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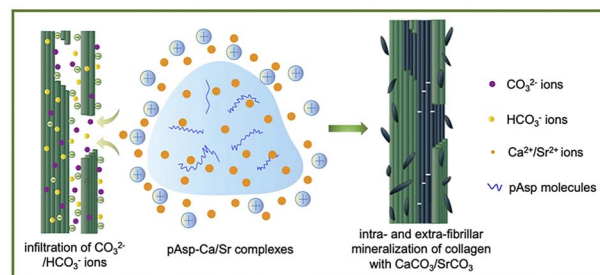
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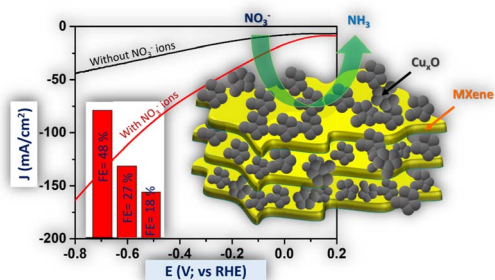
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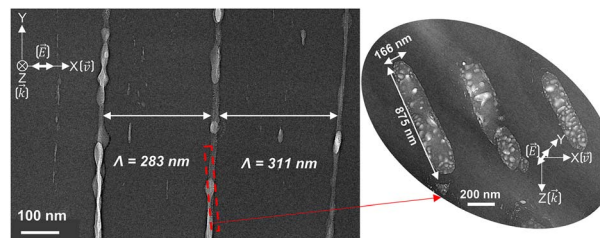
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Nanoscale investigations of femtosecond laser induced nanogratings in optical glasses

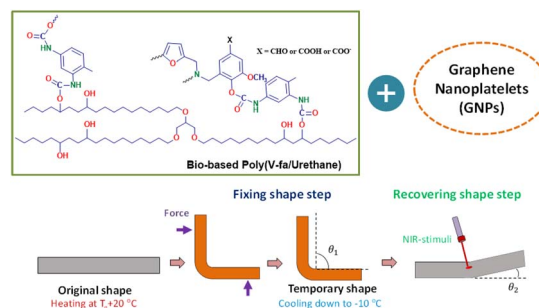
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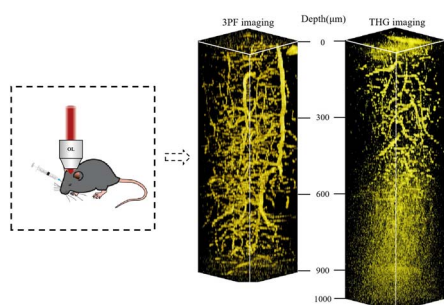
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Development of NIR light-responsive shape memory composites based on bio-benzoxazine/bio-urethane copolymers reinforced with graphene

Weerapong Jamnongpak, Sunan Tiptipakorn, Hariharan Arumugam, Krittapas Charoensuk, Panagiotis Karagiannidis and Sarawut Rimdusit*



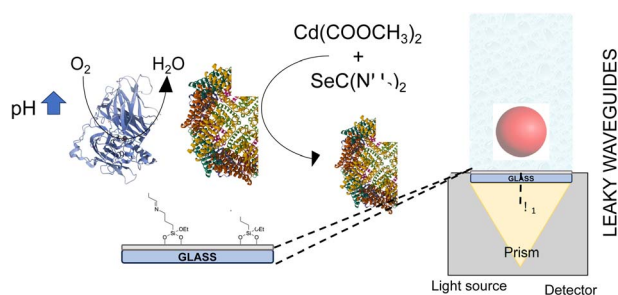
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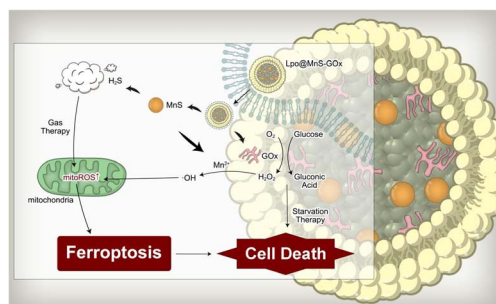
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Bioelectrochemically triggered apoferritin-based bionanoreactors: synthesis of CdSe nanoparticles and monitoring with leaky waveguides

Angelo Tricase, Bushra Alhenaki, Verdiana Marchianò, Luisa Torsi, Ruchi Gupta* and Paolo Bollella*

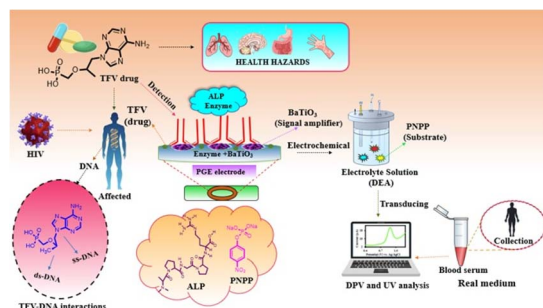
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Liposome-coated nanoparticle triggers prostate cancer ferroptosis through synergetic chemodynamic-gas therapy

Yingkai Hong, Wenli Hou, Dehua Ou, Mingen Lin, Mayao Luo and Qiang Wei*

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An ALP enzyme-based electrochemical biosensor coated with signal-amplifying BaTiO₃ nanoparticles for the detection of an antiviral drug in human blood serum

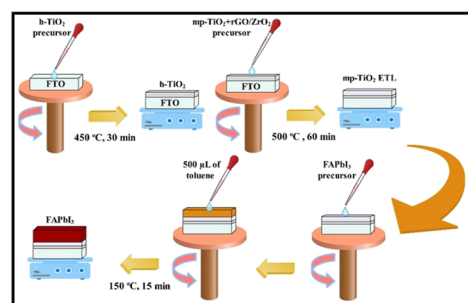
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Enhancing the stability and efficiency of carbon-based perovskite solar cell performance with ZrO₂-decorated rGO nanosheets in a mesoporous TiO₂ electron-transport layer

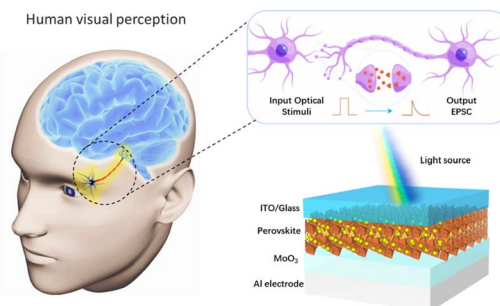
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Optoelectronic synapses based on a triple cation perovskite and Al/MoO₃ interface for neuromorphic information processing

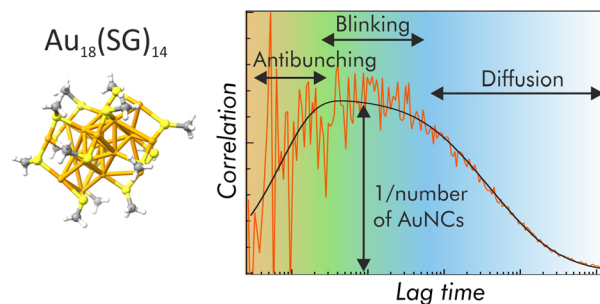
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Unveiling the photoluminescence dynamics of gold nanoclusters with fluorescence correlation spectroscopy

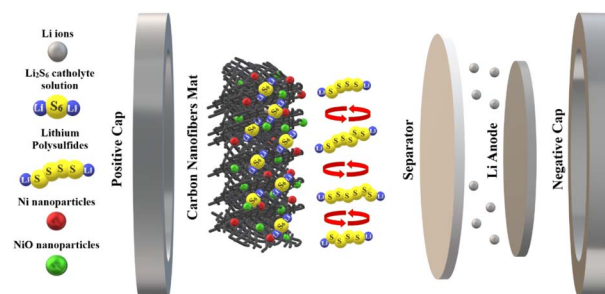
Malavika Kayyil Veedu, Julia Osmólska, Agata Hajda,
Joanna Olesiak-Bańska and Jérôme Wenger*



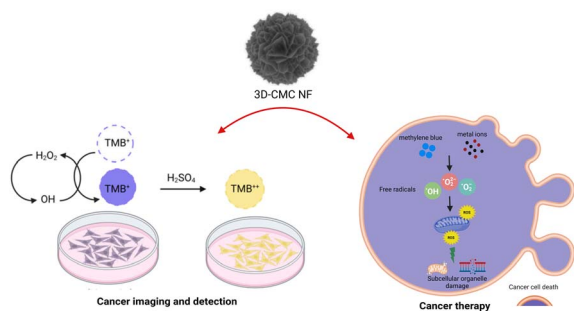
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Nickel and nickel oxide nanoparticle-embedded functional carbon nanofibers for lithium sulfur batteries

Islam Rakhimbek, Nurzhan Baikalov, Aishuak Konarov,
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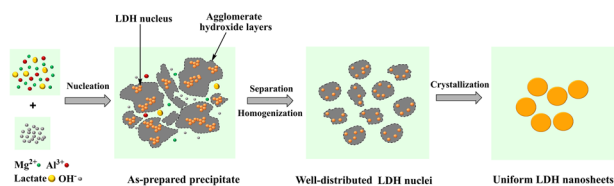
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A self-assembled three-dimensional hierarchical nanoflower: an efficient enzyme-mimetic material for cancer cell detection that improves ROS generation for therapy

Chandran Murugan, Hyoryong Lee and Sukho Park*

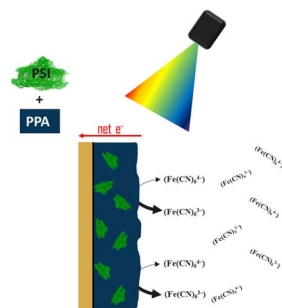
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Controllable synthesis of layered double hydroxide nanosheets to build organic inhibitor-loaded nanocontainers for enhanced corrosion protection of carbon steel

Minh Vuong Phan,* Thi Kim Thoa Tran, Quynh Nhu Pham, Manh Huy Do, Thi Hong No Nguyen, Minh Ty Nguyen, Thanh Thao Phan and Thi Xuan Hang To

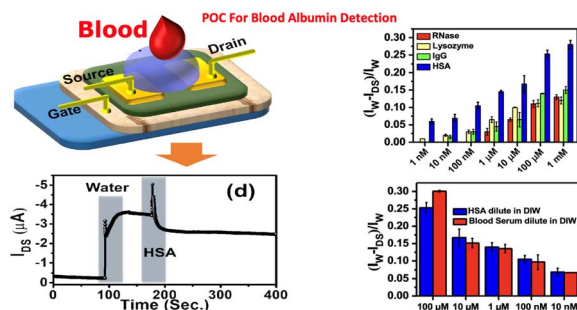
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Interfacing poly(*p*-anisidine) with photosystem I for the fabrication of photoactive composite films

Marc A. Nabhan, Allison V. Cordova-Huaman, David E. Cliffel and G. Kane Jennings*

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Precise and rapid point-of-care quantification of albumin levels in unspiked blood using organic field-effect transistors

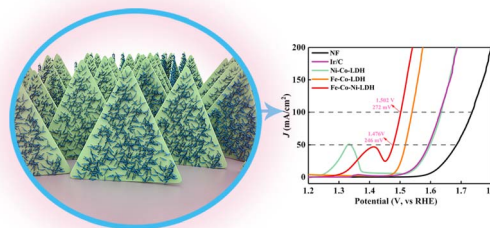
Ajoy Mandal, Suman Mandal, Samik Mallik, Sovantal Mondal, Subhendu Sekhar Bag and Dipak K. Goswami*



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Synergistic effect of composition gradient and morphology on the catalytic activity of amorphous FeCoNi-LDH

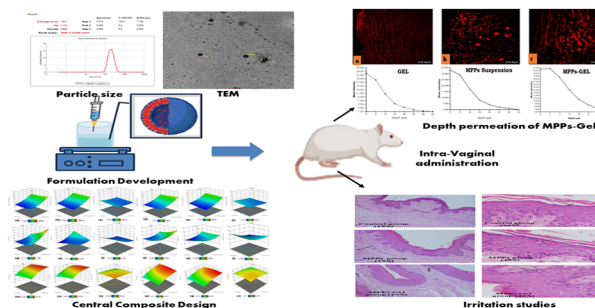
Yuan-Yuan Li,* Xiao Nan Fu, Lin Zhu, Ying Xie, Gong Lei Shao, Bing-Xin Zhou, Wei-Qing Huang, Gui-Fang Huang and Na Wang



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In silico and *in vitro* assessment of an optimized QbD-guided myoinositol and metformin-loaded mucus-penetrating particle-based gel for the amelioration of PCOS

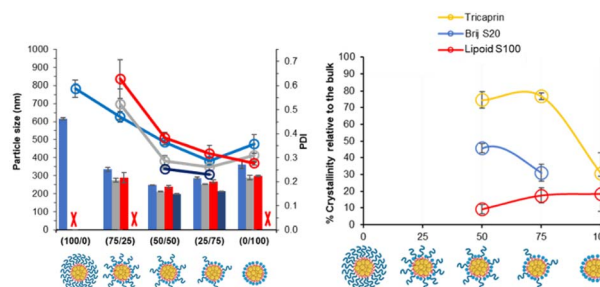
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Navigating the challenges of lipid nanoparticle formulation: the role of unpegylated lipid surfactants in enhancing drug loading and stability

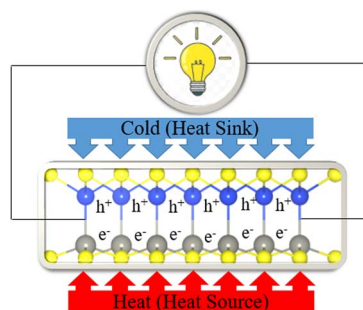
Cameron Hogarth, Keith Arnold, Steve Wright, Heba Elkateb, Steve Rannard and Tom O. McDonald*



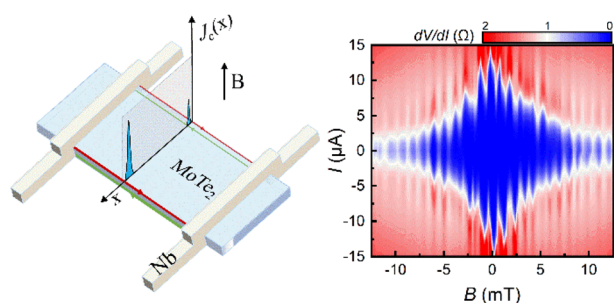
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Optical and thermoelectric properties of new Janus ZnMN₂ (M = Ge, Sn, Si and N = S, Se, Te) monolayers: a first-principles study

Basit Ali, Muhammad Idrees, Tahani A. Alrebdi, Bin Amin and Qaisar Alam*



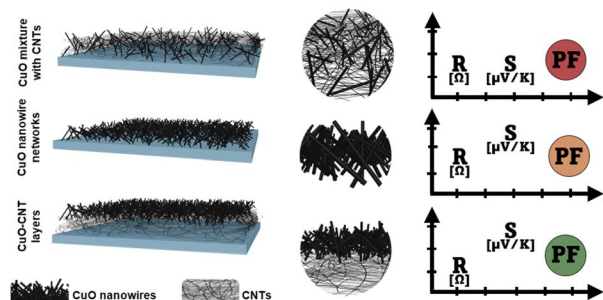
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Asymmetric edge supercurrents in MoTe_2 Josephson junctions

Pingbo Chen, Jinhua Wang, Gongqi Wang, Bicong Ye, Liang Zhou, Le Wang, Jiannong Wang, Wenqing Zhang, Weiqiang Chen, Jiawei Mei and Hongtao He*

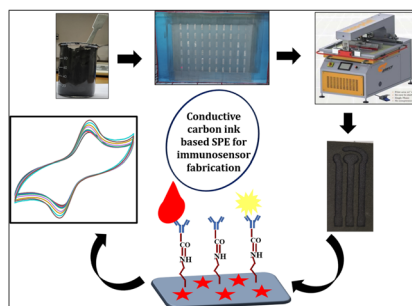
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Synthesis and enhanced room-temperature thermoelectric properties of CuO–MWCNT hybrid nanostructured composites

Raitis Sondors, Davis Gavars, Elmars Spalva, Artis Kons, Rynno Lohmus, Margarita Volkova, Raimonds Meija and Jana Andzane*

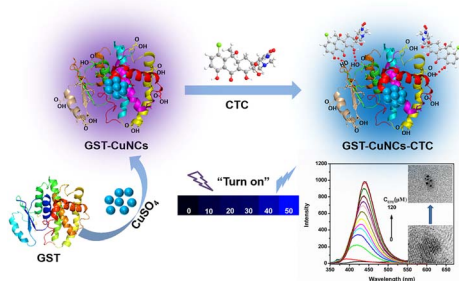
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Nano-modified screen-printed electrode-based electrochemical immunosensors for oral cancer biomarker detection in undiluted human serum and saliva samples

Payal Gulati, Avinash Kumar Singh, Amit K. Yadav, Kiran Pasbola, Perna Pandey, Rinu Sharma, Alok Thakar and Pratima R. Solanki*

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Glutathione S-transferase templated copper nanoclusters as a fluorescent probe for turn-on sensing of chlorotetracycline

Jiaxi Wang, Wenting Chen, Lei Cao, Mengyan Zhou, Yongkang Geng, Yifei Liu, Shushu Ding* and Ding-Yi Fu*



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Correction: A novel study on the preferential attachment of chromophore and auxochrome groups in azo dye adsorption on different greenly synthesized magnetite nanoparticles: investigation of the influence of the mediating plant extract's acidityKaouthar Ahmouda,^{*} Moussa Boudiaf and Boubaker Benhaoua