

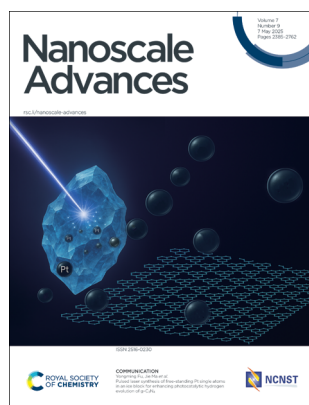
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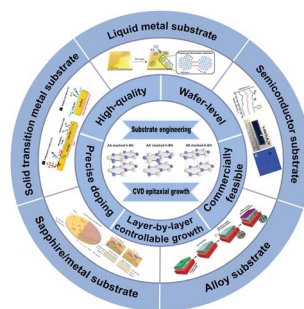
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See Yongming Fu, Jie Ma *et al.*, pp. 2474–2482. Image reproduced by permission of Yongming Fu from *Nanoscale Adv.*, 2025, 7, 2474.

REVIEWS

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Research progress on the epitaxial growth of hexagonal boron nitride on different substrates by the CVD method

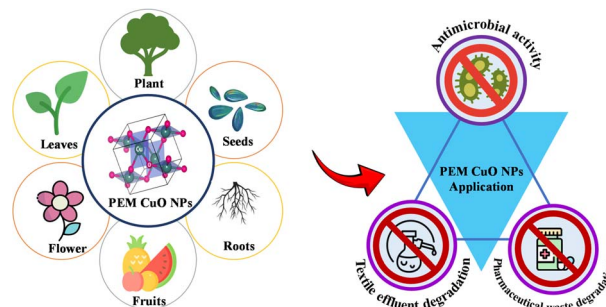
Zikang Li, Zanbo Wang, Quan Zhang, Xiaoqi Bai, Lingxiang Peng, Chuntai Liu and Zhiqiang Yao*



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Mashrafi Bin Mobarak*, MD. Foyzal Sikder, Khandakar Sidratul Muntaha, Shariful Islam, S. M. Fazle Rabbi and Fariha Chowdhury*



Environmental Science: Atmospheres

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Fundamental questions
Elemental answers

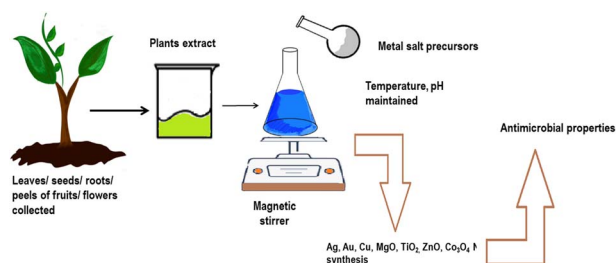


REVIEWS

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A review on the green synthesis of metal (Ag, Cu, and Au) and metal oxide (ZnO, MgO, Co₃O₄, and TiO₂) nanoparticles using plant extracts for developing antimicrobial properties

Israt Jahan Lithi, Kazi Imtiaz Ahmed Nakib, A. M. Sarwaruddin Chowdhury and Md. Sahadat Hossain*

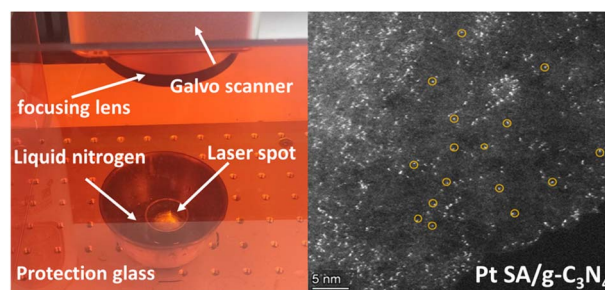


COMMUNICATION

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Pulsed laser synthesis of free-standing Pt single atoms in an ice block for enhancing photocatalytic hydrogen evolution of g-C₃N₄

Yongming Fu,* Qianyu Lu, Jianhong Wang, Na Sun, Jinjun Gao, Peng Chen, Jizhou Wu and Jie Ma*

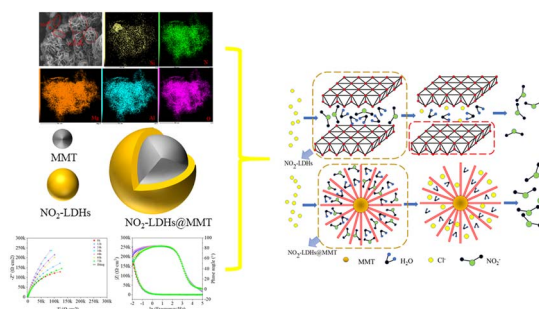


PAPERS

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High specific surface area MMT/NO₂ intercalated modified MgAl-LDH core-shell composites: effective inhibition for steel in Cl⁻ contaminated saturated Ca(OH)₂ solution

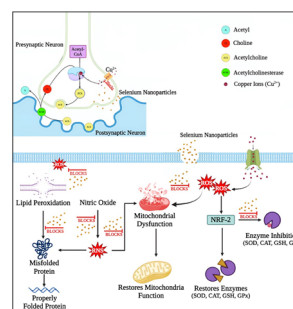
Xiaoyi Zhang,* Binxin Gan, Chen Wu,* Guoliang Lin, Shenglan Ma, Yongbin Ye, Wanxi Jiang and Wenjin Huang



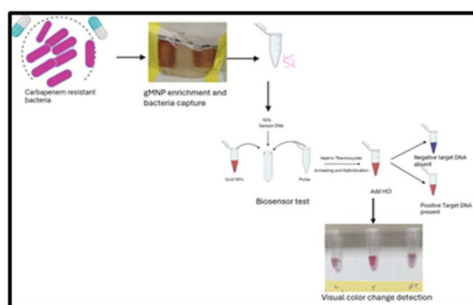
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Glucose reduced nano-Se mitigates Cu-induced ROS by upregulating antioxidant genes in zebrafish larvae

Suganiya Umapathy and Ileshita Pan*



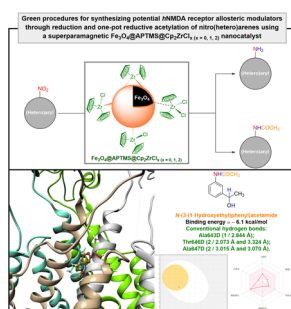
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Genomic nano-biosensor for rapid detection of the carbapenem-resistant gene *bla*_{NDM-1} in carbapenemase-producing bacteria

Regina Kemunto Mayaka and Evangelyn C. Alcocilja*

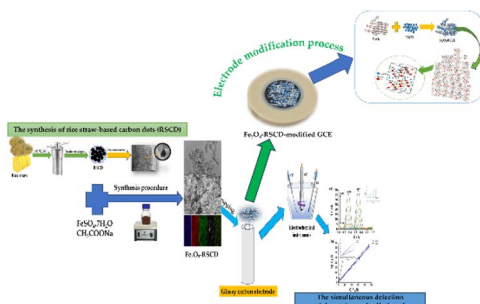
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Hossein Mousavi,* Behzad Zeynizadeh and Farhad Sepehraddin

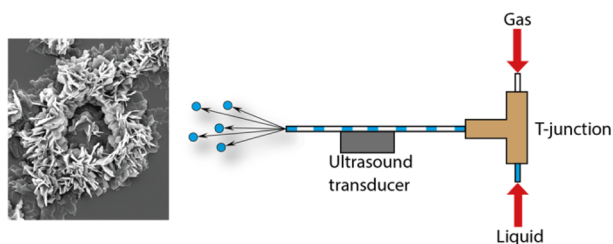
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Fe_2O_3 -rice straw carbon dot composite for simultaneous electrochemical detection of dopamine and salbutamol

Nguyen Van Hop, Nguyen Le My Linh, Vo Chau Ngoc Anh, Do Mai Nguyen* and Tran Thanh Tam Toan*

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Microfluidic generation of nanoparticles using standing wave induced ultrasonic spray drying

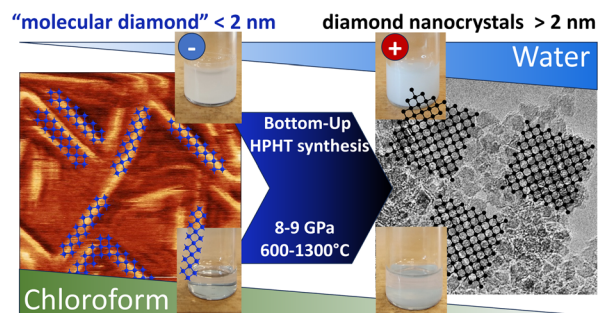
Holger Bolze, Keiran Mc Carogher and Simon Kuhn*



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Transition in morphology and properties in bottom-up HPHT nanodiamonds synthesized from chloroadamantane

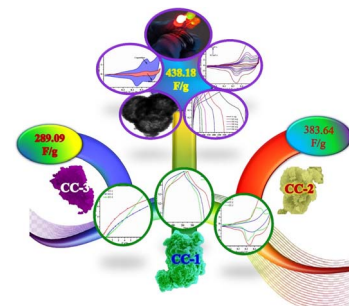
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A comparative study on the synthesis strategies and electrochemical features of bimetallic Cu/Co-MOFs

Mohan Rao Tamtam, Rui Wang, Ravindranadh Koutavarapu, Gyu Sang Choi,* Jaesool Shim,* Nguyen To Hoai* and Nam Nguyen Dang



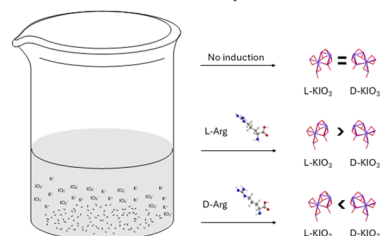
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Chiral induction in the crystallization of KIO_3 and LiIO_3 : the role of amino acids in controlling the chirality of inorganic crystals

Matan Oliel* and Yitzhak Mastai

Chiral induction

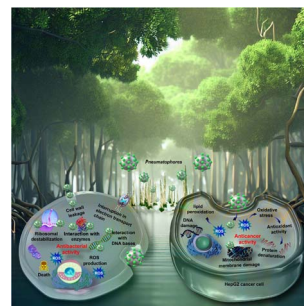
Enantioselective crystallization



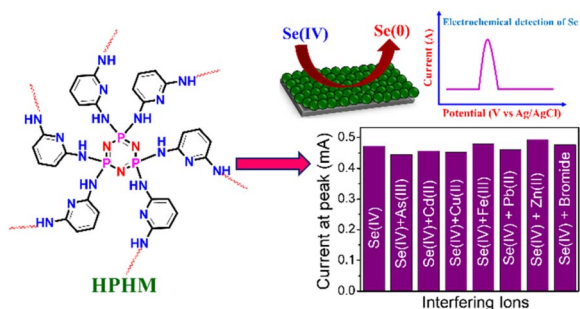
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Mangrove pneumatophores as biocatalysts for the fabrication of silver nanoparticles and their potential applications against biofilm formation and hepatic carcinoma

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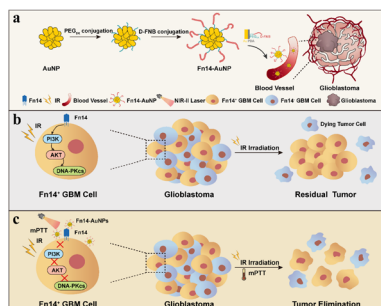
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A nitrogen and phosphorus enriched inorganic–organic hybrid material for electrochemical detection of selenium(IV) ions

Arun Kumar, Prakriti Thakur, Nisha Dhiman, Sachin Balhara and Paritosh Mohanty*

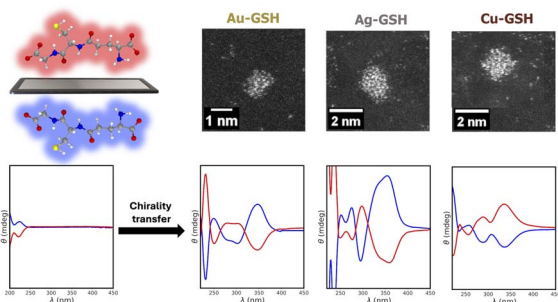
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Fn14-targeting, NIR-II responsive nanomaterials for enhanced radiotherapy against glioblastomas

Wei Fu, Qing Liang, Yuxi Ma, Shiqiong Lei, Ruiqi Li, Xin Zheng, Lian Chen, Jiayuan Chen, Xing Cai, Xiaofang Dai, Hongwei Duan, Wenshan He* and Jinghua Ren*

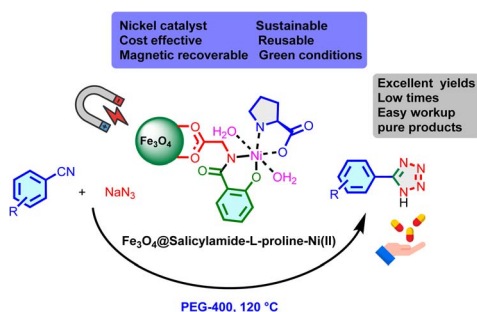
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Metal–ligand interface effect in the chirality transfer from L- and D-glutathione to gold, silver and copper nanoparticles

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Nanomagnetic nickel complex based on salicylamide and L-proline ligands as an efficient heterogeneous catalyst for synthesis of tetrazoles

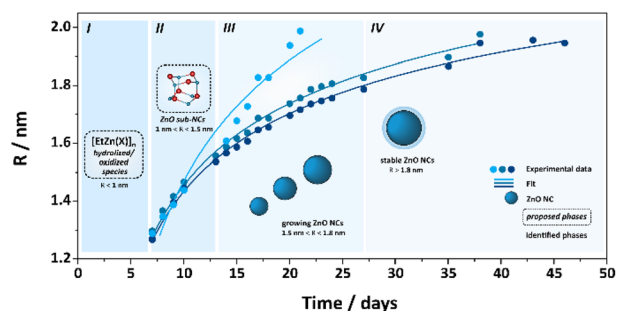
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A new insight into the fabrication of colloidal isotropic ZnO nanocrystals by an organometallic approach

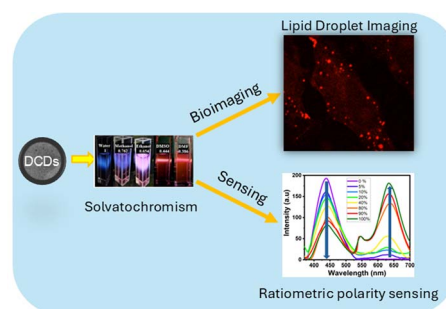
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Polarity-sensitive dual emissive fluorescent carbon dots as highly specific targeting probes for lipid droplets in live cells

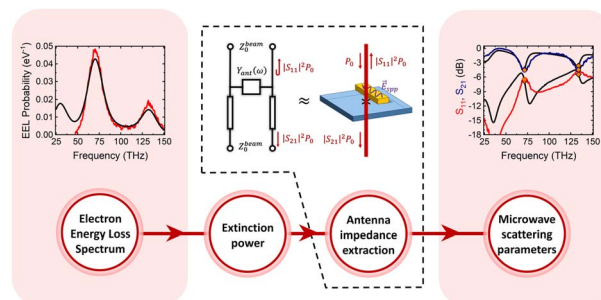
Aminakutty Neerkattil, M. M. Bijeesh, K. K. Ghosh,
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Microwave characterization of plasmonic antennas through electron energy loss spectroscopy

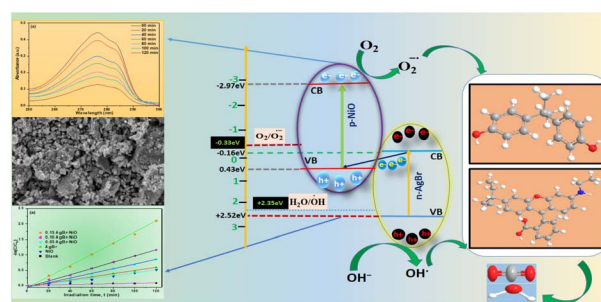
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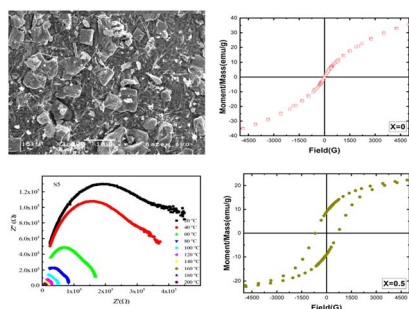
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Development of a crystalline n-AgBr/p-NiO binary heterojunction for photocatalytic degradation of organic contaminants with accompanying mineralization, adsorption, and antimicrobial studies

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Saud Athar, Mohammad Muneer,* Hatem M. Altass,
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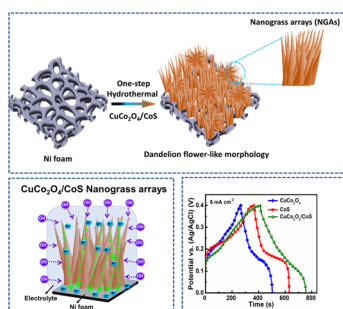
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Chemical synthesis of $\text{Nd}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$ hybrid nanoparticles for permanent magnet applications: structural, magnetic and electrical properties

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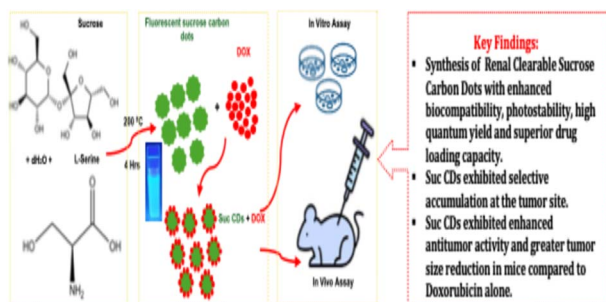
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Battery-type $\text{CuCo}_2\text{O}_4/\text{CoS}$ nanogress arrays as a binder-free advanced electrode material for high-performance supercapacitors

Chandu V. V. Muralee Gopi, Araveeti Eswar Reddy, Sunkara Srinivasa Rao, K. V. G. Raghavendra, Maduru Suneetha,* Hee-Je Kim* and R. Ramesh*

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Renal clearable sucrose carbon dots for doxorubicin delivery to treat renal carcinoma

Farhana Azmi, Xiaoxue Xu, Hien Duong, Ping Ye, Titi Chen, Hongxi Li, Jianwei Chen, Sara Madadi Ardekani, Alireza Dehghani, Guoping Zheng, David Harris, Hongxu Lu, Yiping Wang and Qi Cao

