

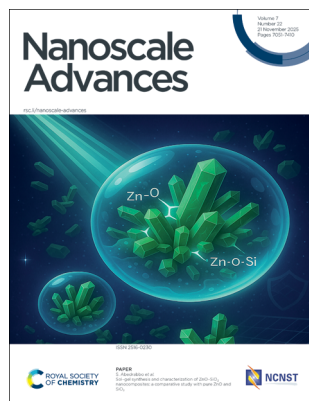
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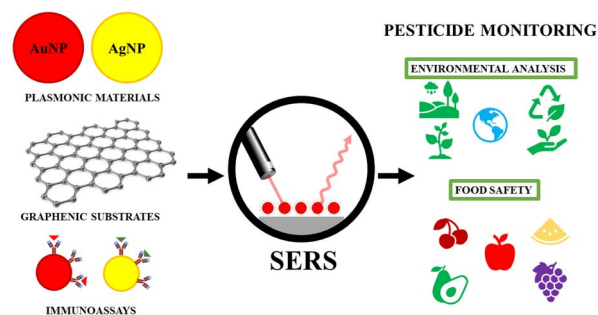
See S. Abedrabbo *et al.*, pp. 7145–7155. Image reproduced by permission of Sufian Abedrabbo & Mohammad Zeidan from *Nanoscale Adv.*, 2025, 7, 7145.

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Surface-enhanced Raman spectroscopy as a tool for food and environmental monitoring of pesticides: recent trends and perspectives

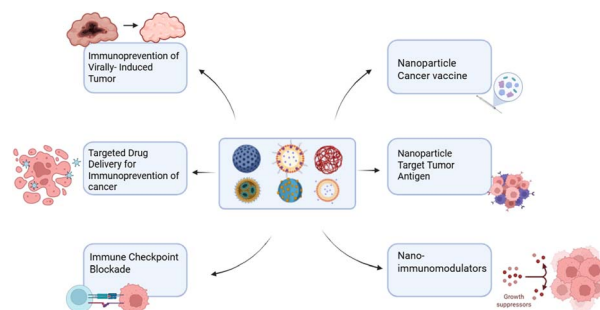
Gabriel Fernandes Souza dos Santos, Giordano Toscano Paganoto, Lucas Carreira Cosme, Adilson Ribeiro Prado, Sêrvio Túlio Alves Cassini, Marco César Cunegundes Guimarães and Jairo Pinto de Oliveira*



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Jay Bhatt, Sweny Jain, Sharad Gupta* and Dhiraj Devidas Bhatia*



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REVIEWS

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Interfacial engineering of nano-copper: mechanisms, strategies, and innovations for oxidation resistance

Bo Zhang, Ziyin Zhou,* Jing Huang, Jiani Zhan, Qiuyu Yao, Rui Lu, Ruixu Hu and Bohong Zhu

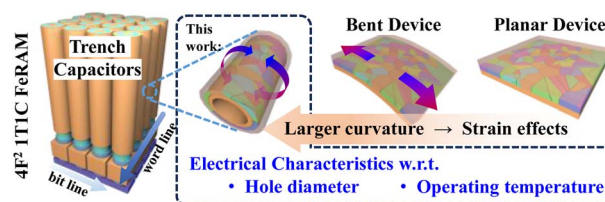


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Investigating the impact of 3D trench structures on HfO₂-based ferroelectric capacitors

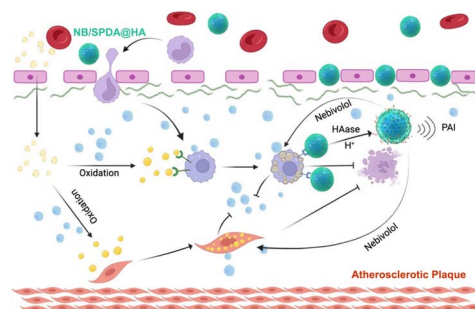
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Yuanzhe Lin, Chenyuan Huang, Xiao Hou, James Chen Yong Kah* and Jiong-Wei Wang*

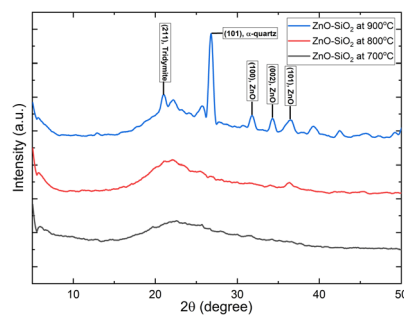


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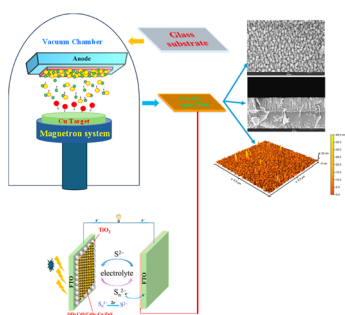
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Sol-gel synthesis and characterization of ZnO–SiO₂ nanocomposites: a comparative study with pure ZnO and SiO₂

A. Samuel, A. Abdullah, G. Xavier, S. Stephen, M. M. Zeidan, D. Choi and S. Abedrabbo*



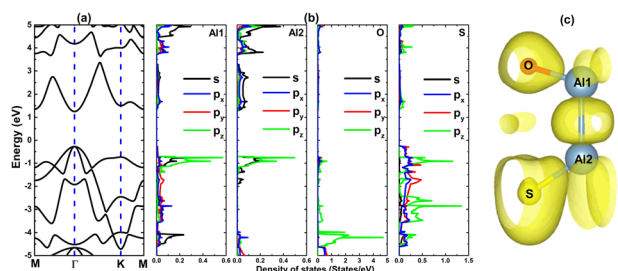
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Nitrogen-doped Cu_4O_3 thin films as high-performance counter electrodes for quantum dot-sensitized solar cells

Pham Minh Khang, Le Thanh Duy, Huu Phuc Dang and Tran Le*

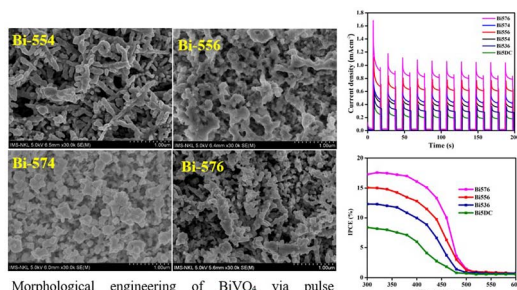
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Nguyen Thanh Tien, R. Ponce-Pérez, Armando Reyes-Serrato, J. Guerrero-Sanchez and D. M. Hoat*

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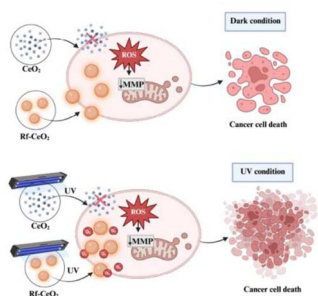


Morphological engineering of BiVO_4 via pulse electrodeposition with controlled current intensity

Structure–property–performance correlation in BiVO_4 photoanodes synthesized by intensity-tuned pulse electrodeposition

Nguyen Thi Huyen, Thi Viet Ha Luu, Tran Le and Huu Phuc Dang*

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Engineered riboflavin–cerium oxide nanoparticles for enhanced phototoxicity toward triple-negative breast cancer cells

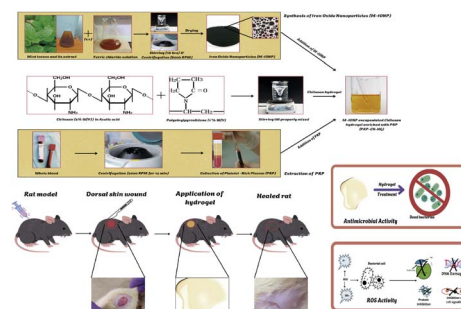
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Biosynthesized iron oxide-nanoparticle encapsulated hydrogel functionalized with platelet-rich plasma (PRP) accelerates wound healing in an animal model

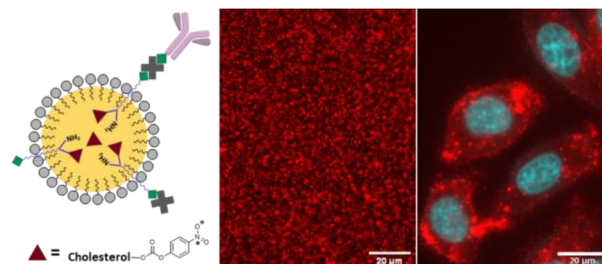
Lipsa Leena Panigrahi, Siddharth Satpathy, Pallavi Samal, Shashank Shekhar, Shakti Ketan Prusty and Manoranjan Arakha*



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Utilization of waste leather for efficient removal of Ca^{2+} and Mg^{2+} in lithium carbonate production via nano-structural adsorption

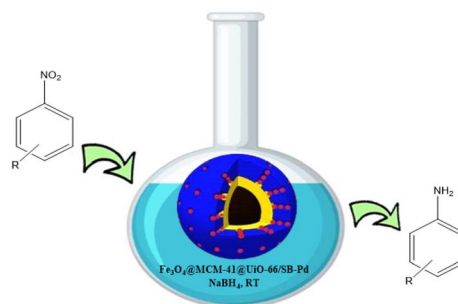
Pengxiang Zhao,* Jianyu Wei, Fumei Wang, Yang Luo and Luming Yang*



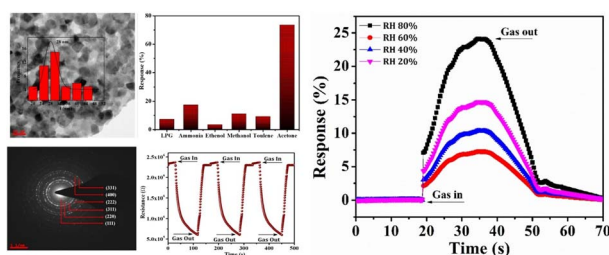
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Palladium-containing magnetic UiO-66-NH₂ as a highly powerful and recoverable nanocatalyst for the reduction of nitrobenzenes

Shiva Kargar and Dawood Elhamifar*



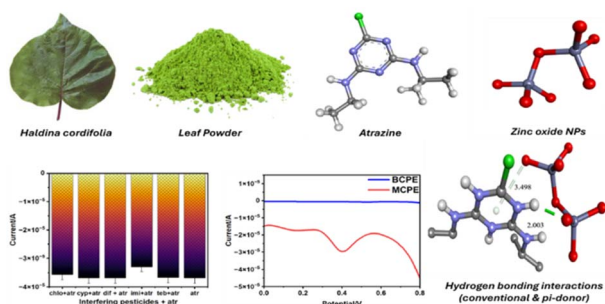
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Room-temperature acetone gas sensing using Sm-doped Co–Zn ferrite nanoparticles: role of mesoporosity and oxygen vacancies in enhancing sensor response

Anil B. Mugutkar, Shyam K. Gore, Siddheshwar D. Raut, Sunil M. Patange, Rajaram S. Mane, Shoyebmohamad F. Shaikh,* Sagar E. Shirsath* and Santosh S. Jadhav*

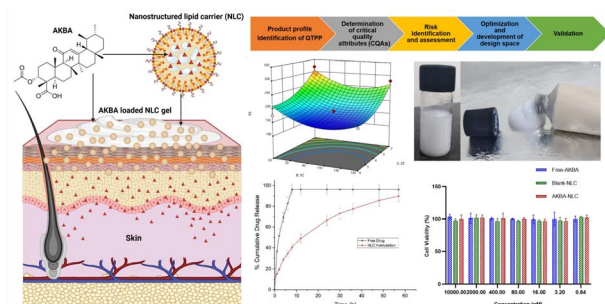
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Green-synthesized ZnO nanoparticles for efficient atrazine detection: electrochemical and computational investigations

Simranjeet Singh, Pavithra N., Radhika Varshney, Ashutosh Panchal, Nabila Shehata, Nadeem A. Khan, Joginder Singh and Praveen C. Ramamurthy*

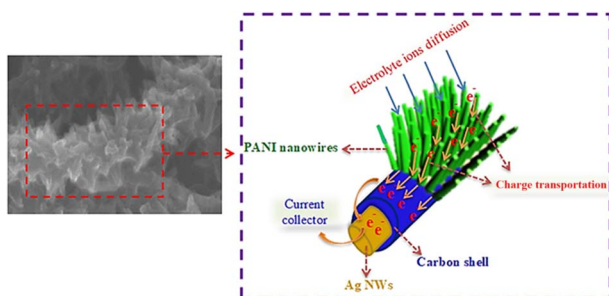
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Enhancing 3-acetyl-11-keto- β -boswellic acid skin permeation via nanostructured lipid carriers: integrating quality by design principles for risk estimation and optimization

Sakshi Priya, Vaibhavi Meghraj Desai, Hemraj Singh, Rajeev Taliyan and Gautam Singhvi*

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Carbon–polyaniline coaxial structures for enhanced charge transfer and capacitance in supercapacitors

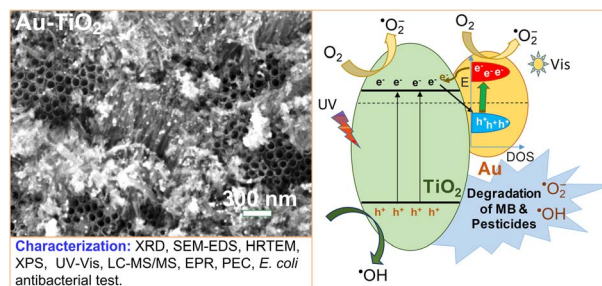
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Plasmonic Au–TiO₂ nanowire/nanotube heterostructures for multifunctional photocatalysis: dye and pesticide degradation, water splitting, and antibacterial activity

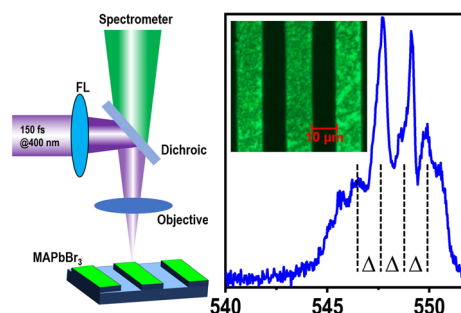
Ngo Ngoc Uyen, Nguyen Chi Toan, Nguyen Truong, Ly Anh Tu and Phuoc Huu Le*



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Phase-locked random lasing in patterned microstripes of MAPbBr₃ porously structured with nanoholes

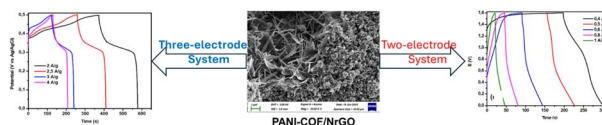
Yuxin Zhang, Qin Zhang and Xinping Zhang*



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Synergistic enhancement of supercapacitor performance using covalent organic frameworks integrated with nitrogenated-reduced graphene oxide and polyaniline

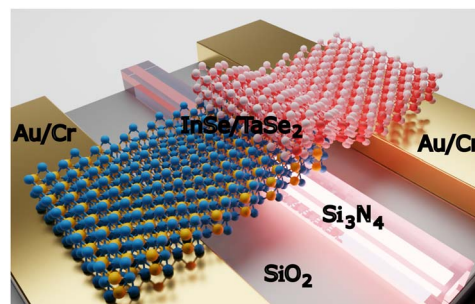
Daniel Malesela Teffu, Katlego Makgopa and Kwena Desmond Modibane*



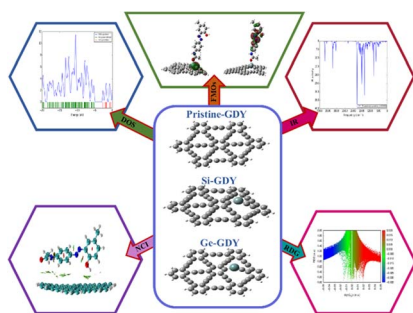
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High-responsivity InSe/TaSe₂ photodetectors integrated on low-loss silicon nitride waveguides

Maaz Ahmed Qureshi,* Fooqia Khalid, Md Gius Uddin, Abde Mayeen Shafi, Isaac Doughan, Janvit Tippinit, Faisal Ahmed, Xiaoqi Cui, Matthieu Roussey, Harri Lipsanen, Zhipei Sun and Markku Kuitinen



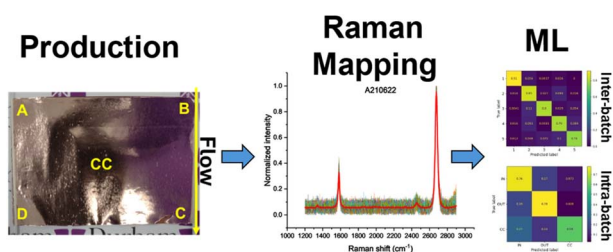
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DFT investigation of dye adsorption on pristine and doped graphdiyne: toward efficient removal of disperse yellow 3 from wastewater

Mohamed M. Aboelnga,^{*} Mariam M. Seliem, Elsayed El-Bayoumy and Mohsen El-Tahawy^{*}

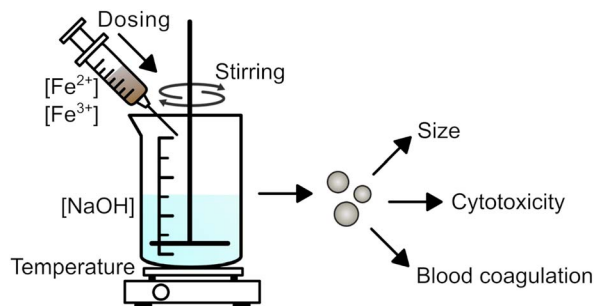
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Simple graphene film production by chemical vapour deposition and the use of AI for quality analysis

Selene Muñoz-Vargas, Marcos Fernando Perez-Pucheta and Karl S. Coleman^{*}

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Influence of coprecipitation synthesis parameters on the physicochemical properties and biological effects of iron oxide nanoparticles

Marco Reindl, Verena Zach, Gerhard Cvirn and Sebastian P. Schwaminger^{*}

