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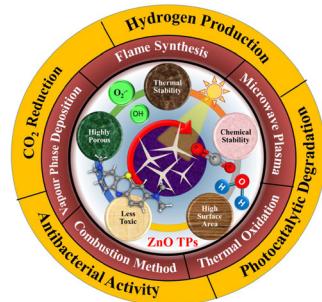
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2025, 6, 2160.

REVIEW

2123

Novel zinc oxide 3D tetrapod nano-microstructures: recent progress in synthesis, modification and tailoring of optical properties for photocatalytic applications

Astha Pujara, Rupam Sharma, Samriti, Mikhael Bechelany, Yogendra Kumar Mishra and Jai Prakash*

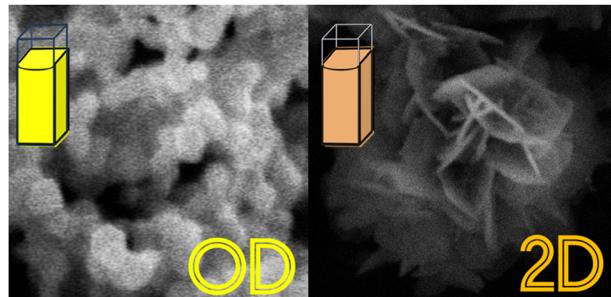


COMMUNICATION

2154

Templating effect travelling on the edge between an ionic liquid and a DES: the case of fluorescent ZnO nanostructures in choline nitrate

Lorenzo Gontrani,* Lorenzo Casoli, Olga Russina, Elvira Maria Bauer* and Marilena Carbone



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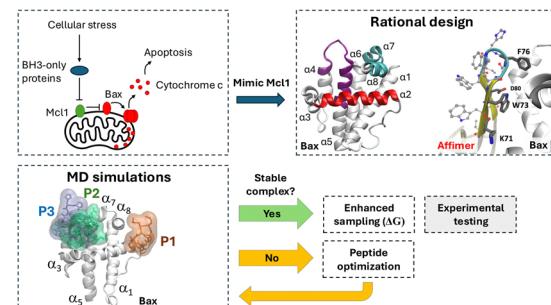
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Computational design of Bax-inhibiting peptides

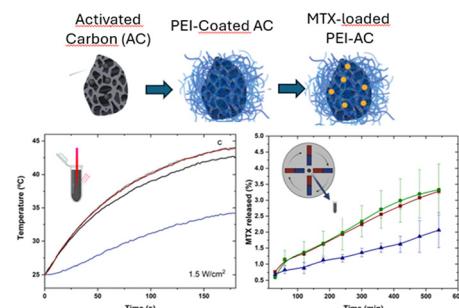
Tom Vlaar, Bernadette Mayer, Lars van der Heide and Ioana M. Ilie*



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Magnetic activated carbon particles as stimuli-responsive vehicles for methotrexate

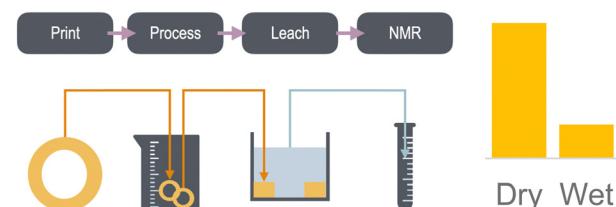
J. A. Lirio Piñar, M. Lázaro, G. R. Iglesias, Tania Romacho, A. V. Delgado, Gracia García-García* and S. Ahualli*



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Enhanced biocompatibility of 3D printed resin parts via wet autoclave postprocessing: implications for stem cell organ-on-a-chip culture

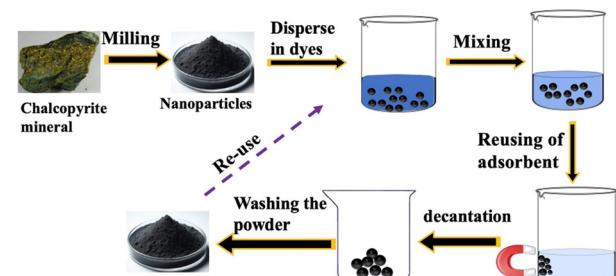
Alexander Jönsson, Antonia Iatrou, Louise Wildfang, Dana J. Neumann, Hakan Gürbüz, Carina A. A. Schoenmaker, Marlene Danner Dalgaard, Pernille Rose Jensen and Martin Dufva*



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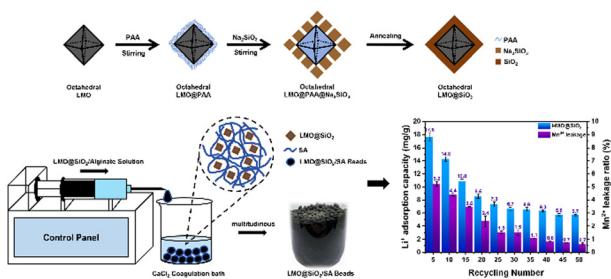
Natural-based chalcopyrite nanoparticles as high-performance mineral adsorbents for organic dye removal in water

Sameera Sh. Mohammed Ameen,* Dilsoz D. Hassan, Dlzharr S. Mohammed, Khalid M. Omer,* Dunya A. Latif and Yousif O. Mohammad



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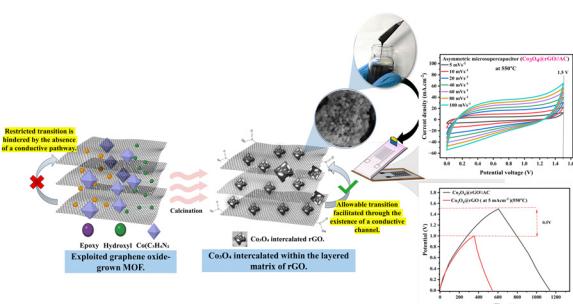
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Continuous flow extraction of lithium from brine using silica-coated LMO beads

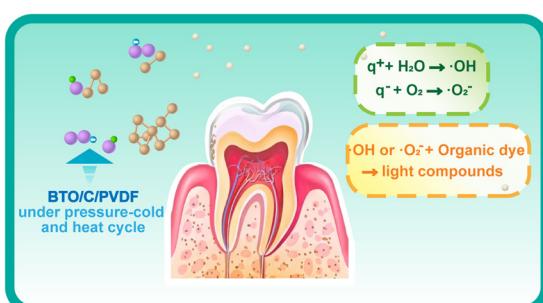
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Engineered flexible microsupercapacitors with MOF-derived Co₃O₄/rGO nanocomposite optimized via response surface methodology for enhanced energy storage

Mohammad Saquib, Shilpa Shetty, S. G. Siddanth, Nagaraja Nayak, Chandra Sekhar Rout, Ramakrishna Nayak, Ahipa T. N. and M. Selvakumar*

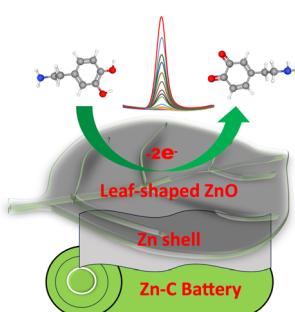
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A reusable BTO-based composite film for safe and convenient tooth whitening

Sihan Wang, Yang Zhou, Yunan Zhang, Zhongyi Yan, Liping Chen and Ling Guo*

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Dopamine detection using leaf-shaped ZnO synthesized from zinc shells of recycled batteries

Md Yeasin Pabel, Md Humayun Kabir*, Md. Sanwar Hossain, Fahima Mojumder, Sourav Datta, Muhammad Shahriar Bashar and Sabina Yasmin*

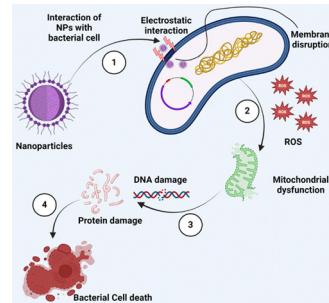


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Multifunctional oleic acid functionalized iron oxide nanoparticles for antibacterial and dye degradation applications with magnetic recycling

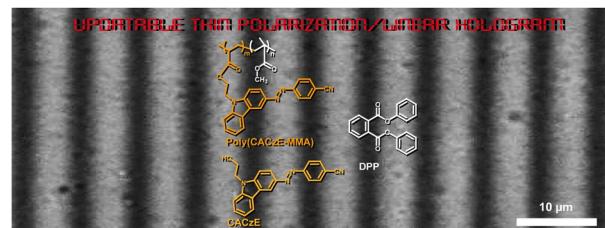
Shreya Sinha, Rahul Sharma, Mohd Rehan Ansari, Rahul Singh, Saurabh Pathak,* Noor Jahan* and Koteswara Rao Peta



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Highly efficient rewritable thin polarization holograms through paraxial recording in azo-carbazole copolymer-based composite films

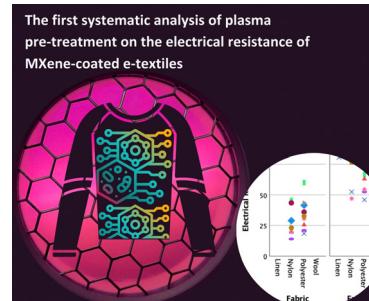
Kenji Kinashi,* Ikuma Yamazaki, Sumit Kumar Singh, Naoto Tsutsumi, Wataru Sakai and Boaz Jessie Jackin*



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The effect of plasma pre-treatment on the electrical resistance of MXene ($Ti_3C_2T_x$) coated fabrics

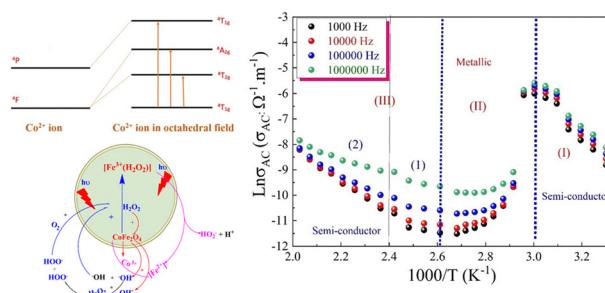
Ashleigh Naysmith,* Timothy Smith, Naeem Mian and Andrew Hewitt



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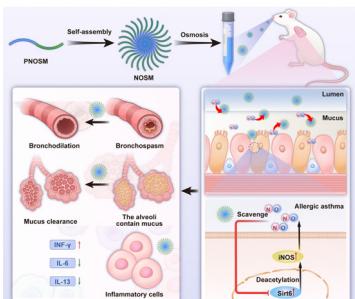
Eco-friendly $CoFe_2O_4$ ferrite nanoparticles prepared using greek yogurt solution: deep insights into optical properties and abnormal semiconductor–insulator–semiconductor transitions for optoelectronics and catalytic applications

Heba Hussein,* S. S. Ibrahim and Sherif A. Khairy



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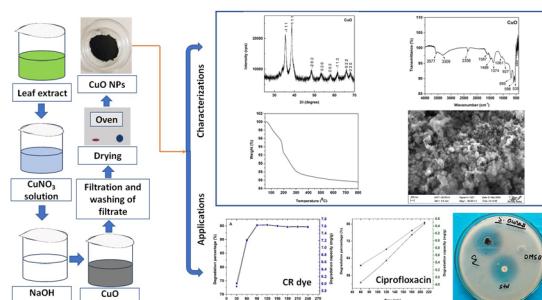
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Nitric oxide-scavenging micelles alleviate airway inflammation in asthma via Th2 cytokine modulation

Daoxiang Rong, Shanshan Fang, Shaohu Huo, Paiyu Lin, Jian Cheng,* Jingfang Hong* and Shenggang Ding*

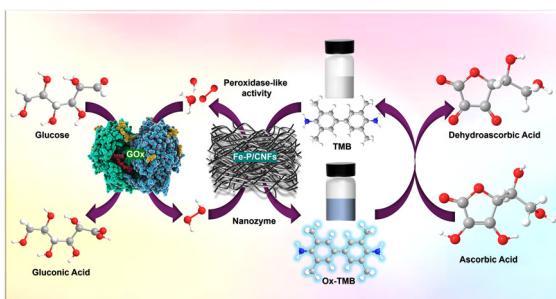
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Exploration of the antibacterial and photocatalytic properties of copper oxide (CuO) nanoparticles synthesized from *Azadirachta indica* leaf extract and electronic waste cable

Sumaya Tabassum, Md. Sahadat Hossain,* Md. Abu Saeed, Md. Najem Uddin and Samina Ahmed*

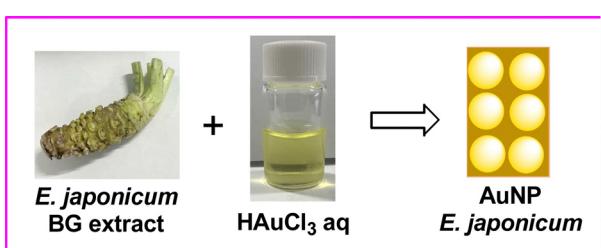
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Fe-porphyrin-derived carbon nanofiber-based nanozymes: enhanced peroxidase-like activity for ultrasensitive glucose and ascorbic acid sensing

Pradeep Singh Thakur and Muniappan Sankar*

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Synthesis of gold nanoparticles using *Eutrema japonicum* (Wasabi): antioxidant and anti-inflammatory studies

Christian Nanga Chick,* Mahiro Takano, Francois Eya'ane Meva and Toyonobu Usuki*

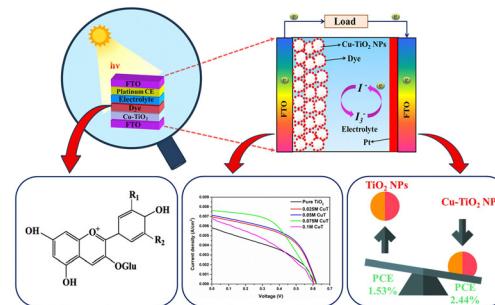


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Anthocyanin-sensitized Cu-doped TiO₂ nanoparticles for efficient and sustainable DSSCs

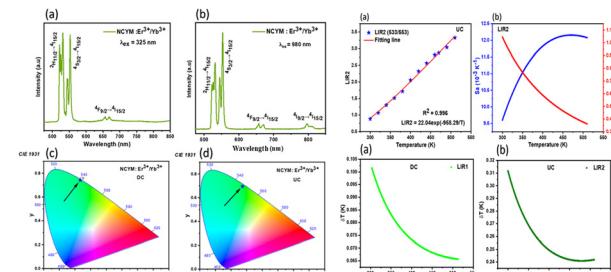
Kamal Prajapat, Ujjwal Mahajan, Mahesh Dhonde,* Kirti Sahu, P. Sakthivel, Shweta Vyas and P. M. Shirage



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Advanced dual-mode Er³⁺/Yb³⁺ phosphors for high-precision optical thermometry across broad temperature ranges

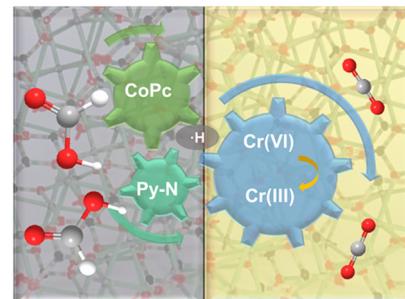
Zein El Abidine Aly Taleb, Ikhlas Kachou, Kamel Saidi, Mohamed Dammak,* Irene Mediavilla and Juan Jiménez



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Efficient advanced reduction with cobalt phthalocyanine-decorated N-doped mesoporous carbon

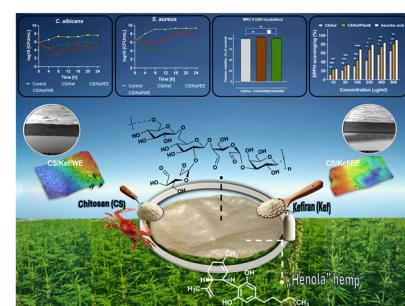
Mengjiao Xu, Kaizhi Wang, Wendi Guo, Zehui Sun, Mugeng Chen, Yongmei Liu* and Yong Cao*



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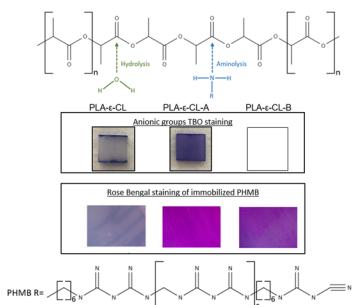
The role of dialdehyde kefiran as a crosslinking agent in chitosan/kefiran-based materials with "Henola" extracts: a biocompatible strategy in wound care

Dorota Chelminiak-Dudkiewicz,* Miloslav Machacek, Jolanta Dlugaszewska, Kinga Mylkie, Aleksander Smolarkiewicz-Wyczachowski, Magdalena Kozlikova, Sebastian Druzynski, Rafal Krygier and Marta Ziegler-Borowska



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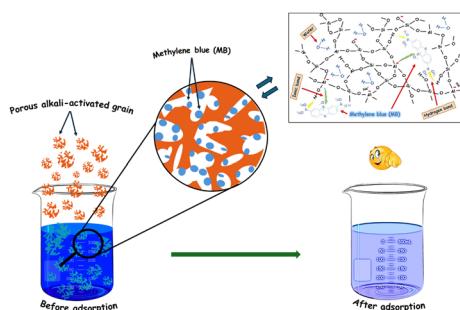
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A biocompatible polylactide- ϵ -caprolactone polymer coated with poly(hexamethylene biguanide) displays antibacterial properties against slime-producing *S. epidermidis*

Paula Zwicker,* Melanie Hornschuh, Thomas Schmidt, Jan Schäfer, Carsten Becker-Willinger, Marlon Jochum, Axel Kramer and Gerald Müller

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Optimized porous alkali-activated material for superior dye removal: synthesis and performance analysis

Youssef Ettahiri,* Abdessalam Bouddouch, Brahim Akhsassi, Anass Khali, Lahcen Bouna, Abdeljalil Benlhachemi and Luis Pérez-Villarejo*

CORRECTION

2448

Correction: Characterization and assessment of cleaning systems based on fatty acid methyl esters (FAMEs) for the removal of wax-based coatings from cultural heritage objects

Chiara Biribicchi,* Michael Doutre and Gabriele Favero

