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See Sherine O. Obare, Dennis LaJeunesse *et al.*, pp. 3063–3072. Image reproduced by permission of Abed Alqader Ibrahim and Anthony L. Dellinger from *Mater. Adv.*, 2025, 6, 3063. Image generated by Adobe Firefly (using a generative credit).



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See Tae-Hyuk Kwon, Pooi See Lee *et al.*, pp. 3073–3083. Image reproduced by permission of Noah Al-Shamery from *Mater. Adv.*, 2025, 6, 3073.

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Introduction to structure–property relationships in alloys

Xiaoxiang Wu,* Seok Su Sohn, Zhongji Sun and Qingqing Ding

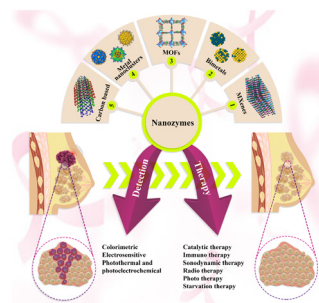


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A comprehensive review on the recent applications of nanozymes in breast cancer therapy and diagnosis

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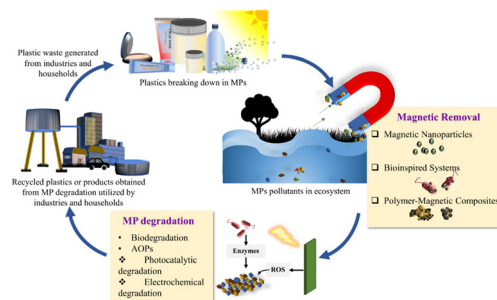
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Magnetic separation and degradation approaches for effective microplastic removal from aquatic and terrestrial environments

Akash Srivastava, G. L. Devnani and Priyanka Gupta*

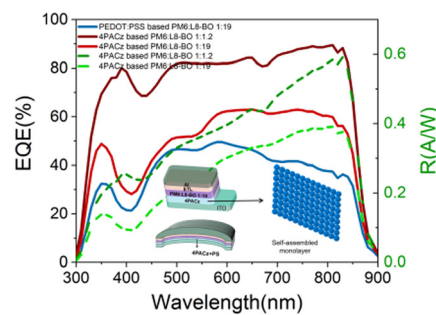


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Jiazhen Cao, Xing Guo, Haimei Wu, Jingjing Chang and Qingzhen Bian*

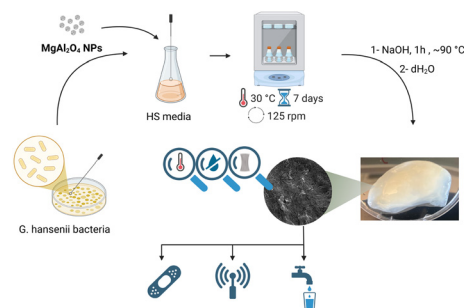


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Enhanced thermal and structural properties of bacterial cellulose with MgAl₂O₄ nanoparticles integration

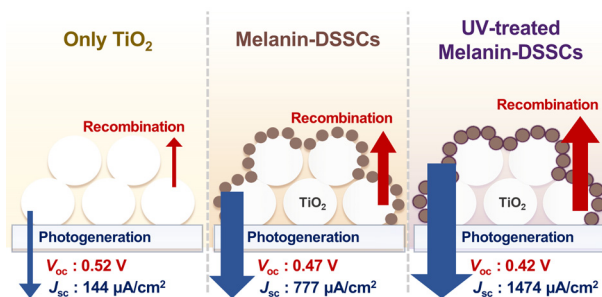
Abed Alqader Ibrahim, Anthony L. Dellinger, Jacob Coscarelly, Gayani Pathiraja, Sherine O. Obare* and Dennis LaJeunesse*



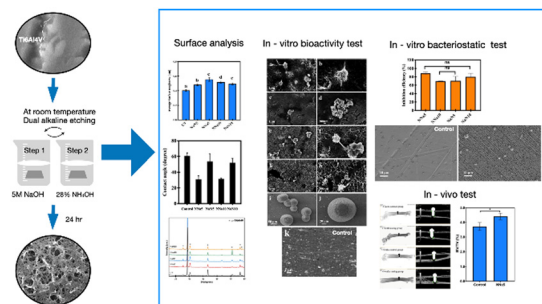
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Noah Al-Shamery, Jun-Hyeok Park, Seung Rok Kim, Florian Heppner, So Yeon Yoon, Thomas Bredow, Tae-Hyuk Kwon* and Pooi See Lee*



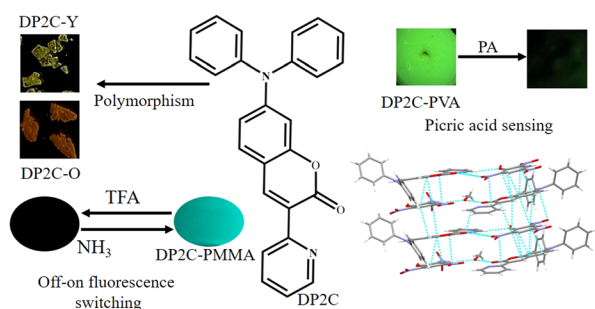
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Sushmita Chettri, Huasi Zhou, Wei Zhu, Håkan Engqvist, Deepa Seetharaman* and Wei Xia*

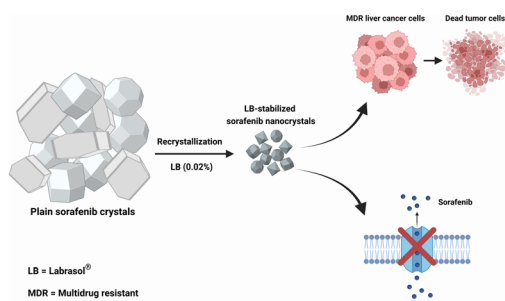
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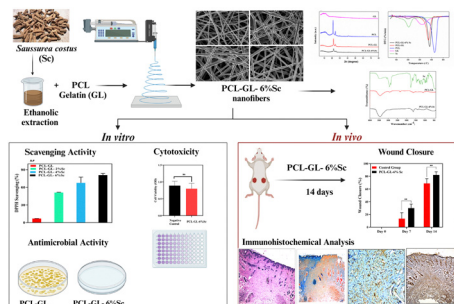
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Sorafenib nanocrystals enhance bioavailability and overcome multidrug resistance in liver cancer cells: an approach based on P-gp inhibition strategy

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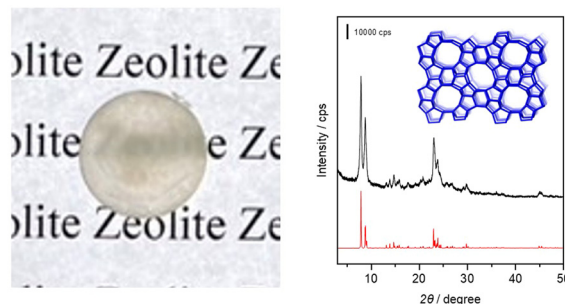
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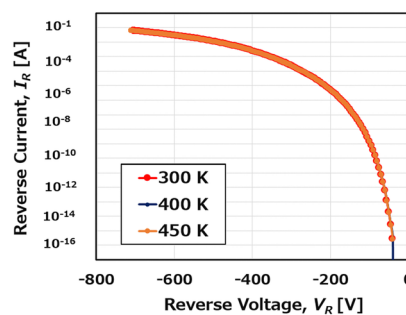
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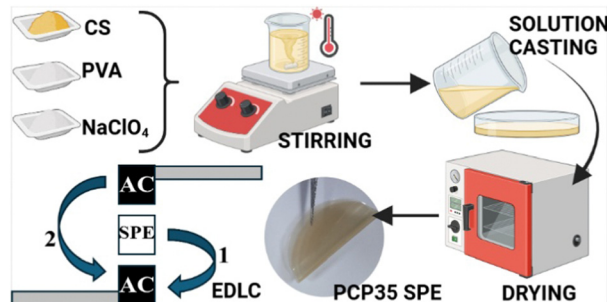
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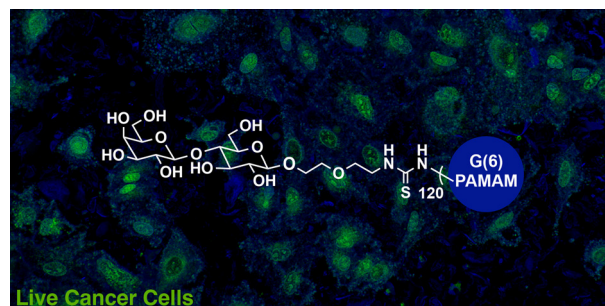
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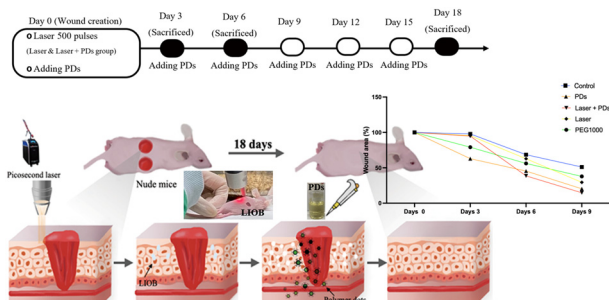
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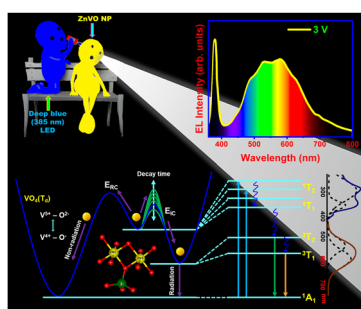
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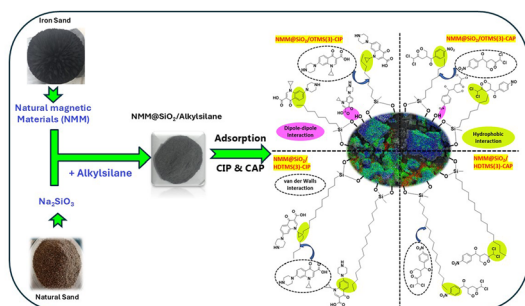
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Fabrication and characterization of rare earth-free nanophosphor based devices for solid-state lighting applications

M. Rakshita, Aachal A. Sharma, Payal P. Pradhan, K. A. K. Durga Prasad, M. Srinivas and D. Haranath*

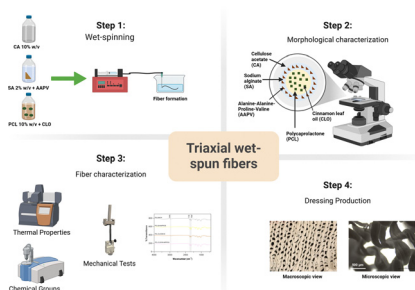
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Effectiveness comparison of octyltrimethoxysilane and hexadecyltrimethoxysilane functionalized on natural silica-coated magnetic materials for ciprofloxacin and chloramphenicol adsorption

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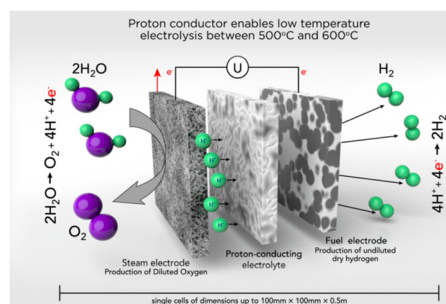
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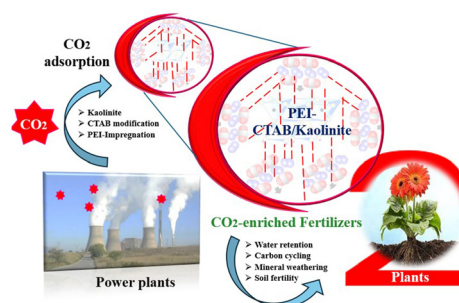
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Environmental materials: CO₂-adsorbing clays for enhancing soil fertility and agricultural sustainability

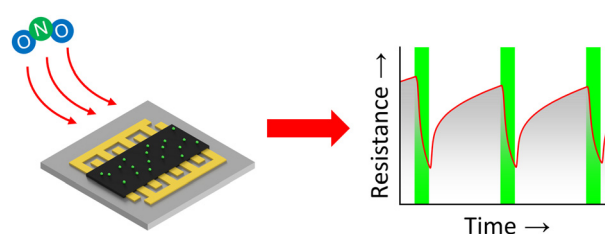
Faizah Altaf, Shakeel Ahmed, Shahid Ali, Muhammad Mansha and Safyan Akram Khan*



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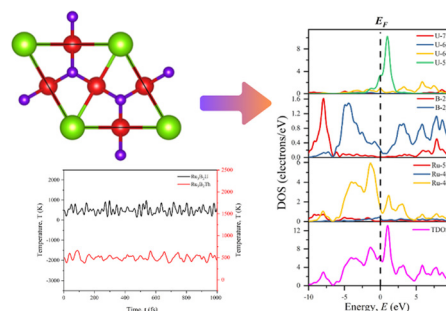
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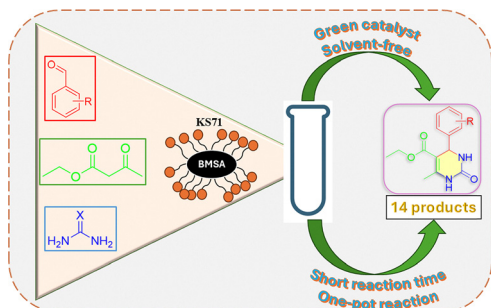
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First-principles study of the ground-state properties of ternary borides with the Ru₃B₂X (X = Th, U) type structure: a comparative analysis

Md. Raihan Islam, Prianka Mondal and Arpon Chakraborty*



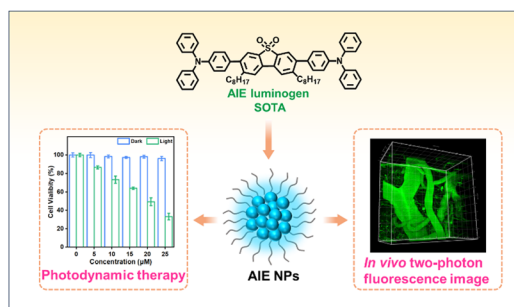
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Thai-Phien Huynh Dang, Thach Ngoc Pham, Phuong Hoang Tran and Hai Truong Nguyen*

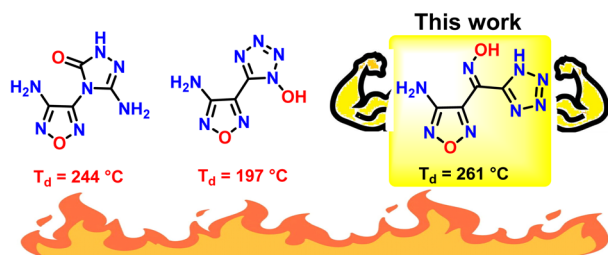
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An AIE-active fluorophore based dibenzothiophene-*S,S*-dioxide unit for highly efficient fluorescence imaging and photodynamic therapy

Liwen Hu, Tianze Hu, Ting Guo* and Chunxiao Wang*

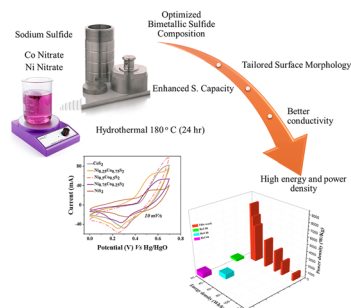
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Parul Saini, Jatinder Singh, Vikranth Thaltiri, Richard J. Staples and Jeanne M. Shreeve*

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Junaid Khan,* A. Ahmed and Abdullah A. Al-Kahtani

