

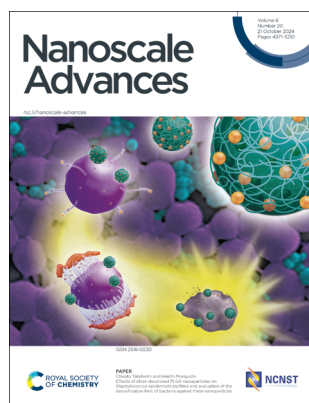
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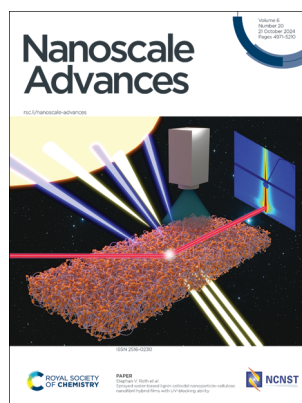
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See Chisato Takahashi and Keiichi Moriguchi, pp. 5020–5030. Image reproduced by permission of Chisato Takahashi and Keiichi Moriguchi from *Nanoscale Adv.*, 2024, 6, 5020. Image created by Yuka Naraki.



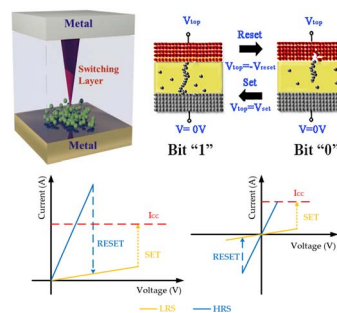
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REVIEWS

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An overview of critical applications of resistive random access memory

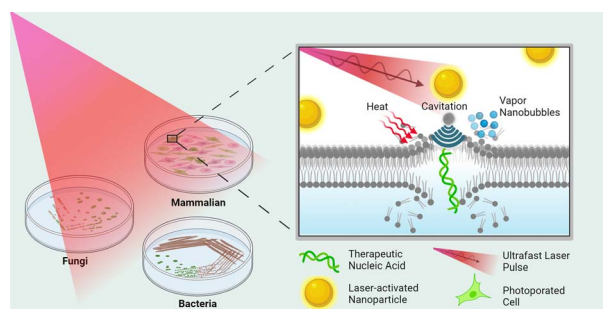
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Nanoparticle-Mediated Photoporation: Expanding Horizons in Drug Delivery

Erin McGraw, Guillaume M. Laurent and L. Adriana Avila*



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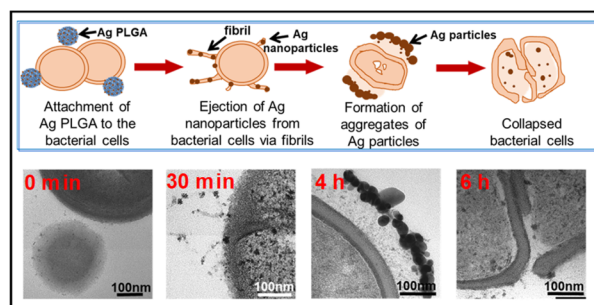
Fundamental questions
Elemental answers



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Effects of silver-decorated PLGA nanoparticles on *Staphylococcus epidermidis* biofilms and evaluation of the detoxification limit of bacteria against these nanoparticles

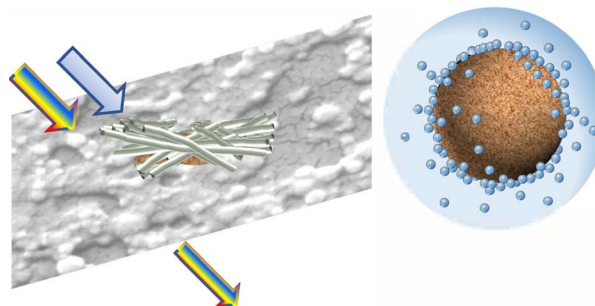
Chisato Takahashi* and Keiichi Moriguchi



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Sprayed water-based lignin colloidal nanoparticle-cellulose nanofibril hybrid films with UV-blocking ability

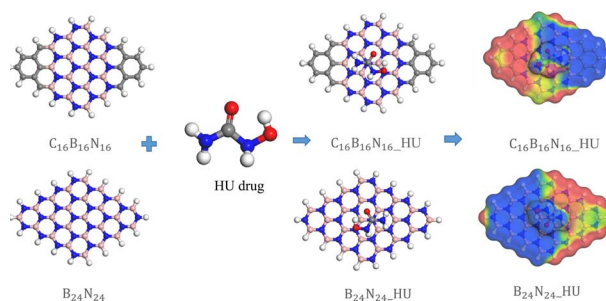
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Assessment of the drug delivery potential of graphene, boron nitride and their in-plane doped structures for hydroxyurea anti-cancer drug via DFT study

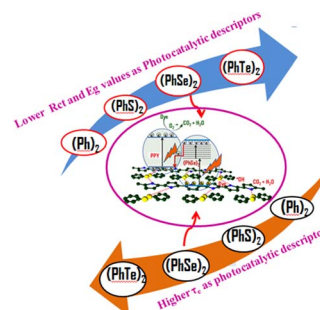
Mehedi Hasan Opi, Tanvir Ahmed, Mithila Roy Swarna, Afiya Akter Piya and Siraj Ud Daula Shamim*



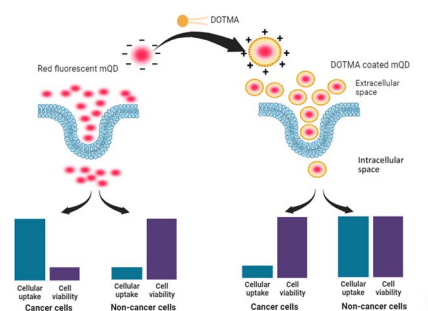
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Design and development of symmetric aromatic bischalcogenide-based photocatalysts for water treatment application: a concise study of diphenyl diselenide polypyrrole nanocatalysis

Tabee Jan, Shabnam Raheem and Masood Ahmad Rizvi*



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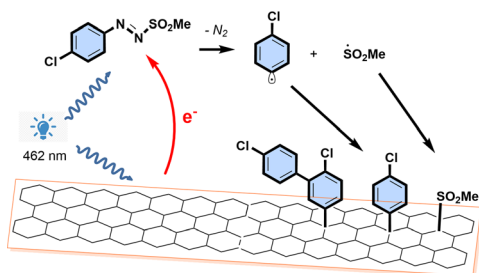


Cellular uptake and viability switching in the properties of lipid coated carbon quantum dots for potential bioimaging and therapeutics

Sweny Jain, Nidhi Sahu, Dhiraj Bhatia* and Pankaj Yadav*

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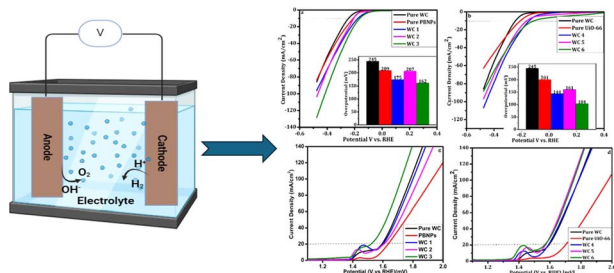
Covalent Functionalization of graphene by blue light



Covalent functionalization by using blue light activated radicals: on the reaction mechanisms of arylazo sulfone binding on graphene

Alessandro Mameli, Alessandro Kovtun,* Derek Jones, Vasiliki Benekou, Vincenzo Palermo, Marco Bandini and Manuela Melucci

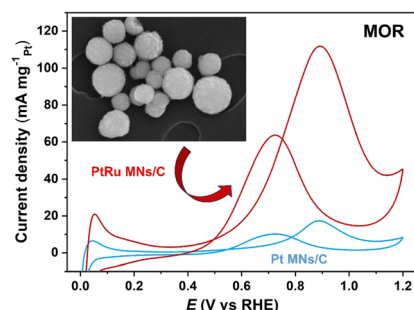
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Electrocatalytic activity of tungsten carbide hybrids with two different MOFs for water splitting: a comparative analysis

Umair Sohail, Erum Pervaiz,* Rafiq Khosa and Maryum Ali

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PtRu mesoporous nanospheres as electrocatalysts with enhanced performance for oxidation of methanol

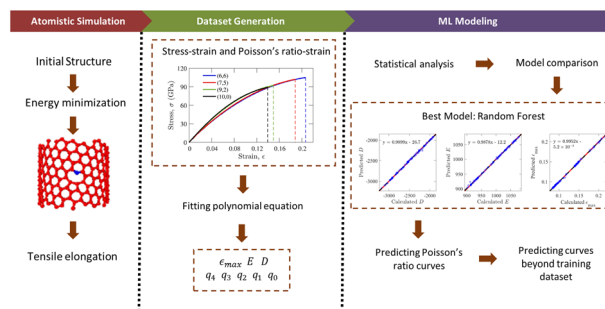
Jiangbin Guo, Qiyu Yan, Man Zhang, Jun Fang, Shuiyuan Luo and Jing Xu*



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Predicting the mechanical properties of pristine and defective carbon nanotubes using a random forest model

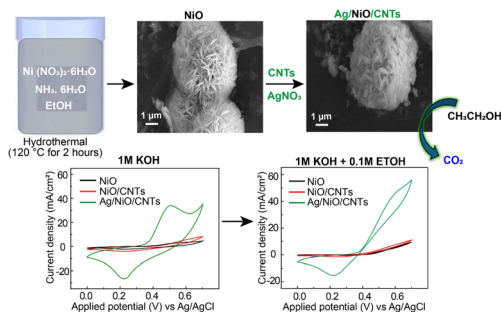
Ihtesham Ibn Malek, Koushik Sarkar and Ahmed Zubair*



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Silver decorated nickel oxide nanoflake/carbon nanotube nanocomposite as an efficient electrocatalyst for ethanol oxidation

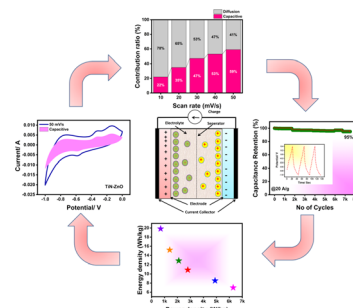
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Facile synthesis and electrochemical analysis of TiN-based ZnO nanoparticles as promising cathode materials for asymmetric supercapacitors

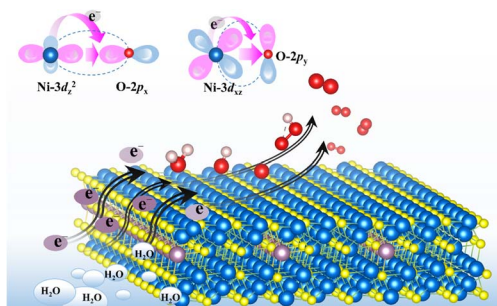
Junaid Riaz, Jianchun Cao,* Yongguo Zhang, Amina Bibi* and Xiaolong Zhou*



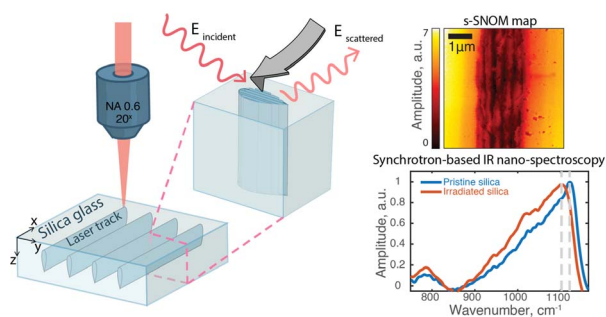
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TM-doping modulated p-d orbital coupling to enhance the oxygen evolution performance of Ni₃S₂

Qiuhong Li, Minghao Zhang, Rui Wang, Jing Pan* and Huailiang Fu*



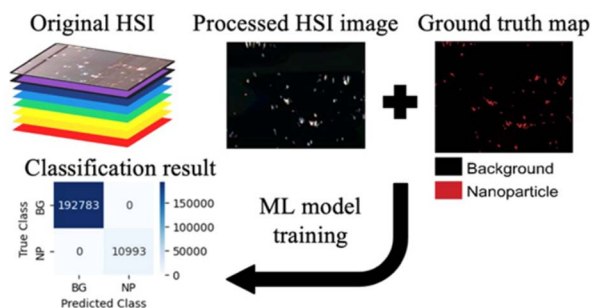
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Nano-FTIR spectroscopy reveals SiO₂ densification within fs-laser induced nanogratings

Nadezhda Shchedrina,* Gergely Nemeth,
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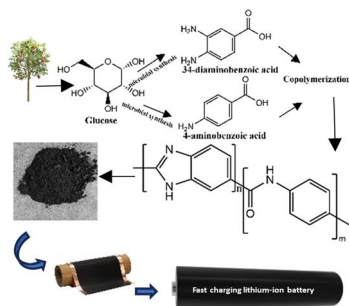
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Hyperspectral enhanced imaging analysis of nanoparticles using machine learning methods

Kaeul Lim and Arezoo Ardekani*

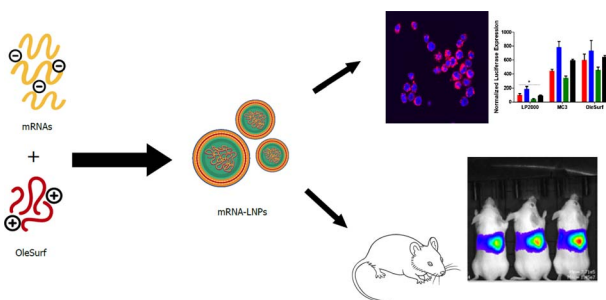
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Bio-based poly(benzimidazole-co-amide)-derived N, O co-doped carbons as fast-charging anodes for lithium-ion batteries

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Synthesis and bioactivity of a novel surfactin-based lipopeptide for mRNA delivery

Mohammed S. Alqahtani,* Rabbani Syed, Ali S. Alqahtani,
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Expression of concern: Decoration of graphene oxide nanosheets with carboxymethylcellulose hydrogel, silk fibroin and magnetic nanoparticles for biomedical and hyperthermia applications

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