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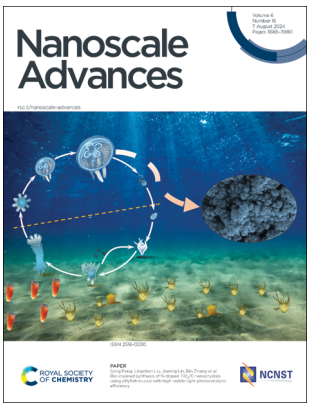
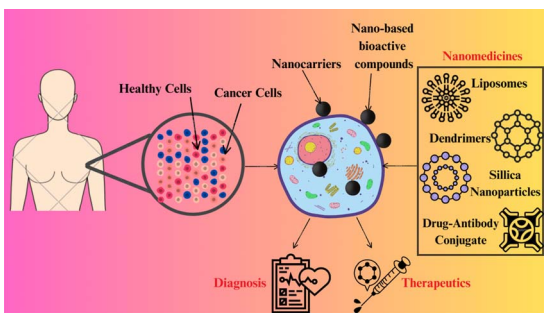


Inside cover
See Song Feng, Lingchen Liu, Jianing Lin, Bin Zhang *et al.*, pp. 3759–3774. Image reproduced by permission of Song Feng from *Nanoscale Adv.*, 2024, **6**, 3759.

EDITORIAL

REVIEWS



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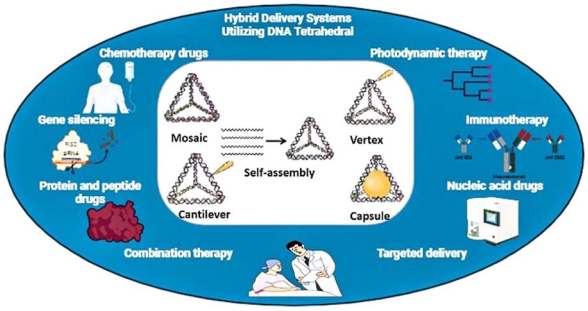

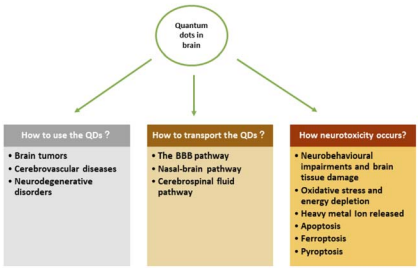

Application of Quantum Dots in Brain Diseases and Its Neurotoxic Mechanism

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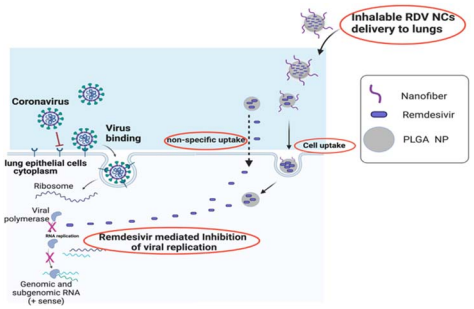

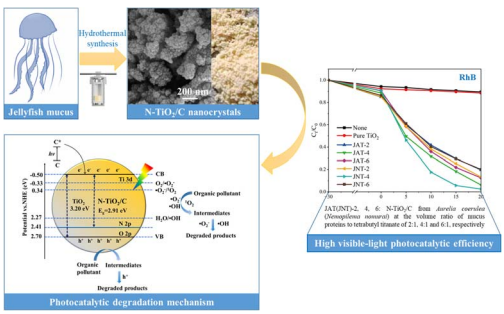

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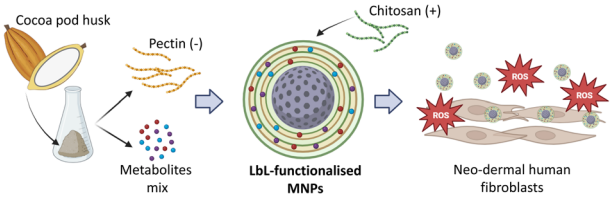

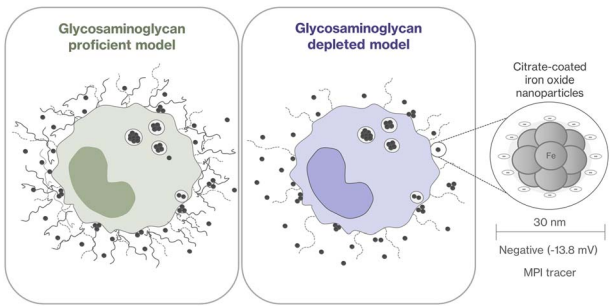

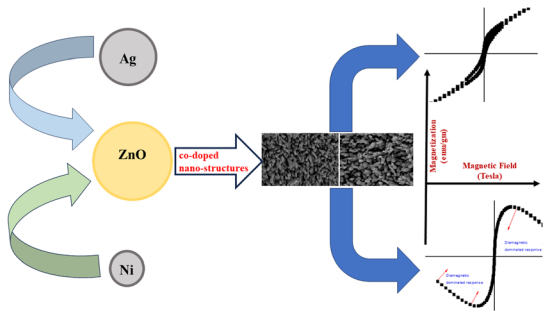

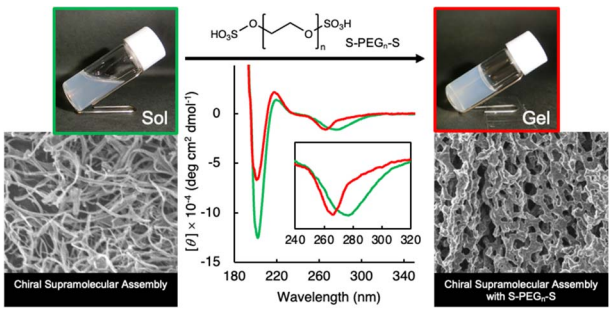

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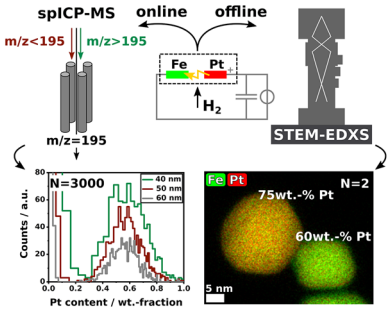

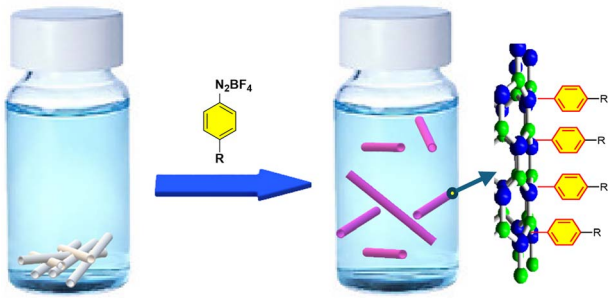

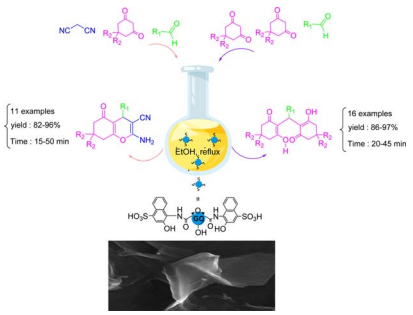

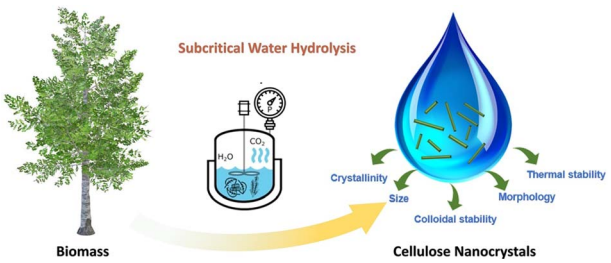

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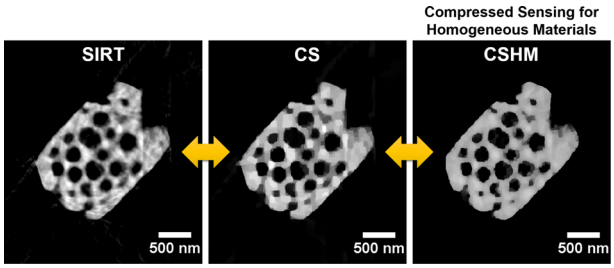
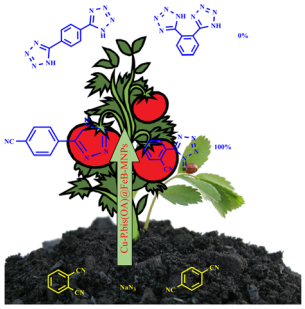


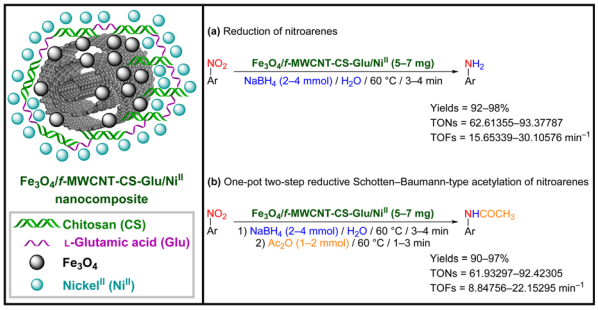
Improving reconstructions in nanotomography for homogeneous materials *via* mathematical optimization

Sebastian Kreuz, Benjamin Apeleo Zubiri,* Silvan Englisch, Moritz Buwen, Sung-Gyu Kang, Rajaprakash Ramachandramoorthy, Erdmann Spiecker, Frauke Liers and Jan Rolfes*



A multidentate copper complex on magnetic biochar nanoparticles as a practical and recoverable nanocatalyst for the selective synthesis of tetrazole derivatives

Marwan Majeed Maseer, Tavan Kikhavani* and Bahman Tahmasbi*



Ni^{II}-containing L-glutamic acid cross-linked chitosan anchored on Fe_3O_4/*f*-MWCNT: a sustainable catalyst for the green reduction and one-pot two-step reductive Schotten–Baumann-type acetylation of nitroarenes

Hossein Mousavi,* Behzad Zeynizadeh and Morteza Hasanpour Galehban