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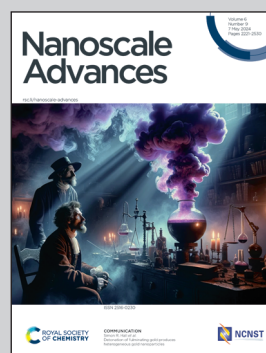


Showcasing research from Assoc. Prof. Monica Focsan's research group, Faculty of Physics, Babes Bolyai University, Cluj Napoca, Romania.

Advancing MRI with magnetic nanoparticles: a comprehensive review of translational research and clinical trials

Enter the transformative realm of contemporary medicine, where Magnetic Resonance Imaging (MRI) stands as a cornerstone, intertwining technology with healing. R. Lapusan and R. Borlan's exploration delves into the integration of Superparamagnetic Iron Oxide Nanoparticles (SPIONs) within MRI, spotlighting their adaptability and safety. From neurological disorders to tumour characterization, SPIONs offer unprecedented precision and potential. Yet, challenges persist, from biocompatibility to iron overload risks. This comprehensive review navigates SPIONs' evolution, from foundational research to cutting-edge applications, offering insights into their journey as MRI contrast agents.

As featured in:



See Monica Focsan *et al.*,  
*Nanoscale Adv.*, 2024, **6**, 2234.