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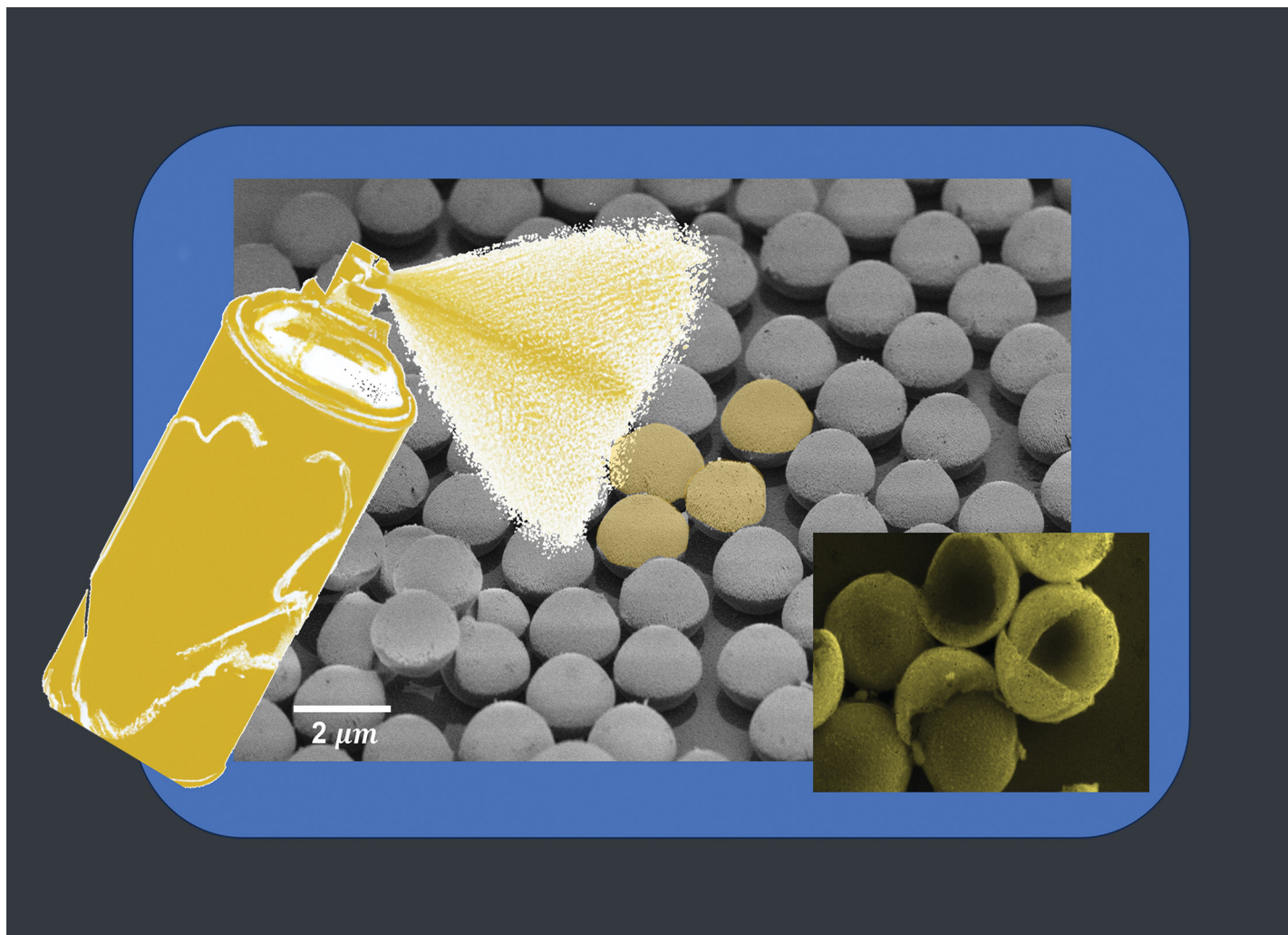


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**Showcasing research from Professor Amos Sharoni's laboratory, Dept. of Physics, Bar-Ilan University, Israel.**

Controlled synthesis of multifunctional dome-shaped micro- and nano-structures *via* a robust physical route for biological applications

Dome shaped particles are fabricated using a dense micro-sphere polystyrene template, followed by physical vapor deposition (PVD) of a thin layer atop the spheres. After removing the polystyrene, we are left with dome shaped particles, 10s of nm thick. The spheres can be of any composition that can be deposited by PVD, including metals, magnetic material, multilayered structures and so on. We show this method is efficient for preparation of bio-compatible magnetic micro-dome particles.

**As featured in:**



See Ganit Indech *et al.*,  
*J. Mater. Chem. B*, 2023, **11**, 7094.