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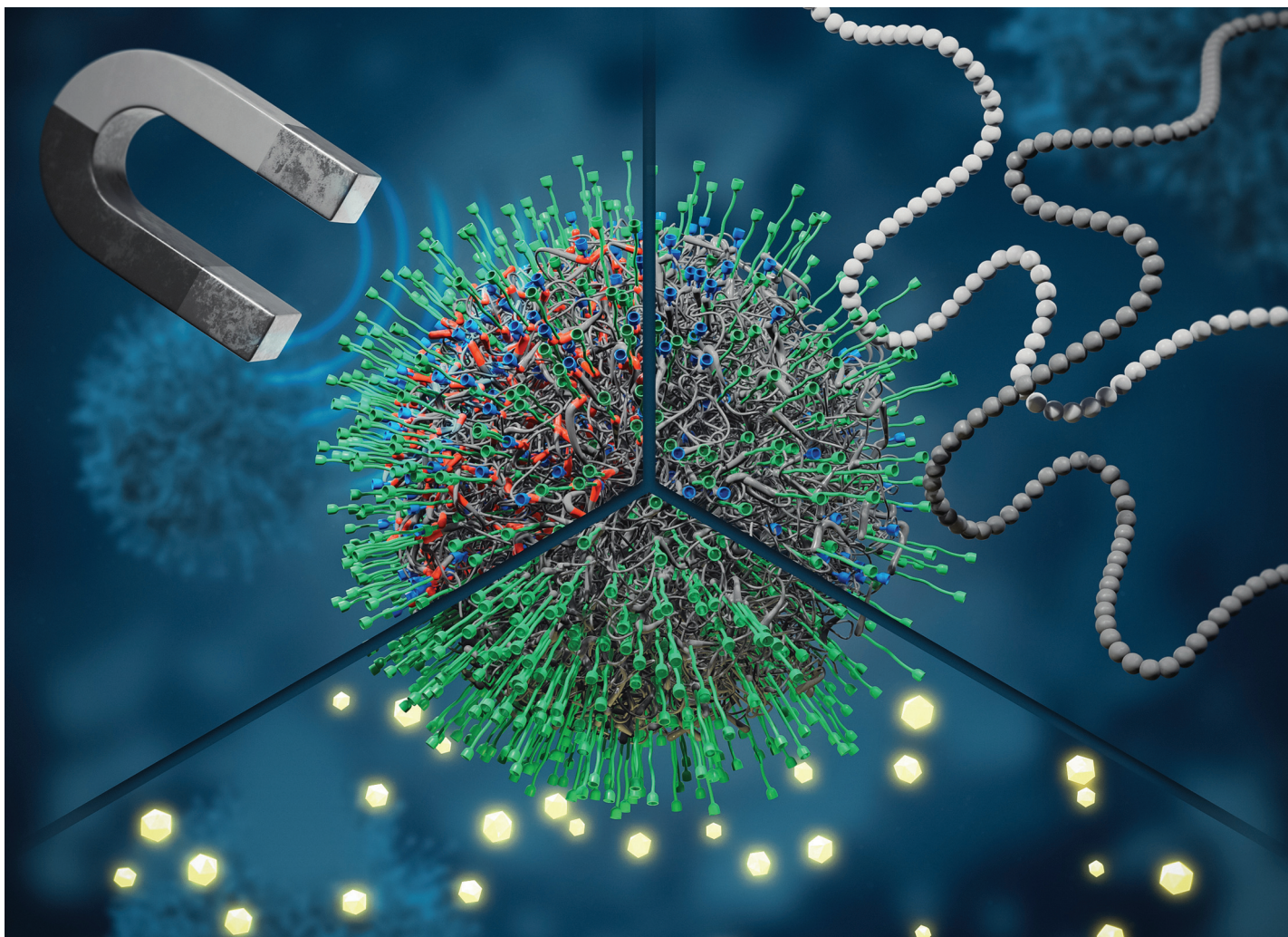
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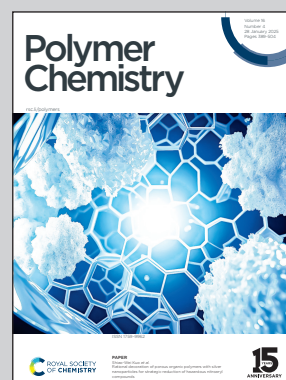
**Showcasing research from Professor Landfester's laboratory, Max Planck Institute for Polymer Research, Mainz, Germany.**

Tailoring reactive handles on the surface of nanoparticles for covalent conjugation of biomolecules

Landfester *et al.* used a series of techniques to fully quantify and distinguish functional groups within colloidal particles.  $^1\text{H-NMR}$  spectroscopy was used to obtain the total number of functional groups, particle charge detection measurements determined the number of visible functional groups on the particles surface, and lastly small dyes were used to quantify the number of accessible functional groups that can be utilized as reactive handles for further surface covalent conjugation of biomolecules.

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**As featured in:**



See Katharina Landfester *et al.*,  
*Polym. Chem.*, 2025, **16**, 433.