

# **Macromolecules, Assemblies, Particles – A Discovery Journey in Materials Synthesis**

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The power of synthesis to obtain new functional nanoparticles is demonstrated in several cases. The concepts include latex particles by oil-in-oil emulsion, shape-persistent dendrimers, surface functionalized globular proteins, graphene molecules and carbon nanoparticles. All the new particles presented herein offer a broad range of highly sophisticated applications such as gene transfection, catalysis (polyolefin synthesis, styrene synthesis and oxygen reduction), lithium storage or sensing technologies.