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Fig. 1. Applications of surface-modified nanoparticles and, more broadly, nanostructures. Functional nanoparticle-surfactant combinations are involved in medical applications, structural materials, energy conversion processes, catalysts, as well as in cleaning and purification systems. Milo Research Group | Ben-Gurion University. Our group is combining experimental, computational, and statistical strategies to identify design principles behind molecular functionality, reactivity, and selectivity. Patrick Causey, PhD, Research Scientist, Canadian Nuclear Laboratories. Dr. Causey is a Research Scientist at the Chalk River Labs of Canadian Nuclear Laboratories (CNL), working in the Radiobiology and Health Branch. Nanochemistry is the combination of chemistry and nanoscience. Nanochemistry is associated with synthesis of building blocks which are dependent on size, surface, shape and defect properties., Actinide Nanoparticle Research.

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