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New MRI contrast agent

Magnetic resonance imaging (MRI) contrast agents are chemical substances used in MRI scans. When injected in the body, the contrast agent improves the quality of the MRI images. Gadolinium contrast media has been the most predominant until the discovery and association of the metal with nephrogenic systemic fibrosis (NSF), a rare but serious side effect in patients with renal or kidney problems, and retention of very small amounts in the tissues. Due to the side effects caused by the Gadolinium contrast agent, this project is focused on synthesizing a contrast agent using a different metal. The synthesized MRI contrast agent will fulfill the same functions as the gadolinium agent but without the side effects mentioned before.