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A complex sol-gel method - CSGP (Polish Patent 172618) was used to synthesize silica glasses for immobilizing high-level radioactive waste. The role of radioactive elements was played by Cs, Sr, Co - added in the form of nitrates, while neodymium was a surrogate for actinides. As a result of hydrolysis and polycondensation reactions taking place in a solution containing tetraethoxysilane and metal nitrates, where ascorbic acid served as a catalyst, gels were obtained in the form of powders and compacts.

[Magdalena Miłkowska, W poszukiwaniu nowych rozwiązań unieszkodliwiania odpadów promieniotwórczychPobierz](#)