Synthesis and research of polyaluminosilicate chemical structure influence on properties of dielectric layers received by 3D aerosol printing

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Polyaluminosilicates with different chemical structures have been synthesized. They have been experimentally studied and a priori estimated. Dielectric ceramic layers have been obtained by means of 3D aerosol printing and studied with the use of synthesized polyaluminosilicates and highly dispersed powder of Al2O3 ceramic filler.
III stage: polycondensation with gel formation from oligosilicic acids and O3N-Al-(OH)2