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# Acid-base properties of the surface of fluorescent compounds on base of sulfides calcium and strontium

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**Abstract**

Conducted research to identify the kinetics of hydrolysis processes on the surface of the crystals of alkaline earth metal sulfides. Found influence of additives of rare earth elements on a stability Sr(Ca)S to hydrolytic processes. Proved the effect of increasing the stability of the synthesized phosphors activation recent rare earth elements, due to the formation phase of the "difficult" double sulphides of $(Sr_{0.95}Sm_{0.05})S_{0.983}$ and $EuSrS_2$.