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## Luminescence from rare-earth doped silica prepared by the sol-gel method

Silica doped with rare-earth ions was synthesized by the sol-gel method. The resulting powders were annealed at 600 and 1000°C. X-ray diffraction spectra indicated that all samples were amorphous. Samples doped with Tb<sup>3+</sup> exhibited the brightest luminescence, both when excited with UV light (photoluminescence) and with an electron beam (cathodoluminescence).

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