

Abstract

Surface-modified conversion phosphors

5 The invention relates to surface-modified phosphor particles based on
luminescent particles which comprise at least one luminescent compound,
where $(\text{Ca}, \text{Sr}, \text{Ba})_2\text{SiO}_4$ and other silicates having one or more activator
ions, such as Eu, Ce and Mn, are excluded as luminescent compounds,
and where at least one inorganic layer comprising oxides/hydroxides of Si,
10 Al, Zr, Zn, Ti and/or mixtures thereof and an organic coating of organo-
silanes or polyorganosiloxanes (silicones) and/or mixtures thereof are
applied to the luminescent particles, and to a production process.