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The invention refers to the radio electronic engineering and may be used for obtaining thin-filmed heterostructures of the $A^{II}B^{VI}$ binary compounds for photoresistors and phototransformers manufacturing.

A process for obtaining thin-filmed heterostructures on the $A^{II}B^{VI}$ binary compounds basis includes vacuum deposition on the support at presence of the temperature gradient between the evaporator and the support, of a compounds stratum with a narrow-band component by means of evaporation in the quasi-closed volume at further heat and chemical treatment and of a compounds stratum with wide-band component by means of discrete evaporation.