

a 2007 0304

The invention relates to optoelectronics, in particular to random microlasers that can be used in spectroscopy, medical diagnostics, display production etc.

The process for random microlaser obtaining includes obtaining of a composite formed of particles of metal oxide doped with rare-earth or transition metals and voids filled with air, at the same time the composite is obtained by impregnation of a porous matrix of metal oxide with a solution containing ions of rare-earth or transition metals in ethanol with a concentration of 0,1...1 g/ml with subsequent thermal annealing into a temperature interval of 700...900°C during 15...60 min.

Claims: 1

Fig.: 4