

Sensor materials for visual detection of hexogen, TATB and other low volatile polynitrocompounds

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Abstract

The growth of effectiveness has been shown in the gas phase luminicence of naproxene-containing 3-aryl-6-indolyl-1,2,4-triazine-5-(4H)-ones, as well as 1,4-disubstituted pentiptycenes at the interaction with polynitrocontaining compounds (TATB, TNT, picric acid, dinitrotoluene) through obtaining on their basis nanofibrous materials using electrospinning procedure (electromolding). We worked out the conditions for conducting electrospinning to obtain the materials with relevant properties.