a 2018 0010

The invention relates to the organic semiconductor-based bulk heterojunction production technology, in particular to a process for producing zinc phthalocyanine-based bulk heterojunction, and can be used to convert solar energy into electrical energy.

The method for producing zinc phthalocyanine-based bulk heterojunction comprises dissolution of zinc phthalocyanine in formic acid, ultrasonic treatment of the solution, separate dissolution of I_2 in formic acid, ultrasonic treatment of the solution until complete dissolution of I_2, separate dissolution of the compound N,N'-bis(3-pentyl)perylene-3,4,9,10-bis(dicarboximide) in formic acid and ultrasonic treatment of the solution until it is completely dissolved, mixing of the solutions by ultrasonic treatment, deposition of the resulting solution onto the ITO substrate, coated with PEDOT:PSS by drip deposition method on a stationary or rotating substrate, and subsequent drying of the deposited layer at room temperature.

Claims: 1
Fig.: 2