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By Karimov, Khasan

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Multi-functional Sensors | Recently organic semiconductors have obtained considerable interest in the fields of electronic and photonic devices due to a wide range of applications and low cost. This work describes fabrication and investigations of organic semiconductor devices such as humidity, light and temperature sensors based on copper phthalocyanine (CuPc). Temperature dependent properties of organic-inorganic (Ag/CuPc/GaAs/Ag) heterojunctions were investigated in a wide temperature range of 82 to 350 K. The fabricated junctions could be used as photo-electric sensors for the NIR-UV spectral region. A photoelectric displacement transducer, organic phototransistor based on CuPc, and photo capacitive sensor based on poly-N-epoxypropylcarbazole complexes were fabricated and investigated as well. The concept of multi-functional sensors using organic semiconductors is discussed. Properties of CuPc films deposited at high gravity conditions from 50g to -50g by centrifugation were investigated. | Format: Paperback | Language/Sprache: english | 190 gr | 132 pp.

Reviews

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