

organic field effect transistors pdf

An organic field-effect transistor (OFET) is a field-effect transistor using an organic semiconductor in its channel. OFETs can be prepared either by vacuum evaporation of small molecules, by solution-casting of polymers or small molecules, or by mechanical transfer of a peeled single-crystalline organic layer onto a substrate.

Organic field-effect transistor - Wikipedia

The field-effect transistor (FET) is a transistor that uses an electric field to control the electrical behaviour of the device. FETs are also known as unipolar transistors since they involve single-carrier-type operation.

Field-effect transistor - Wikipedia

A selection rule of solvent for highly aligned diketopyrrolopyrrole-based conjugated polymer film for high performance organic field-effect transistors

A selection rule of solvent for highly - ScienceDirect

Molybdenum disulfide (MoS₂) thin-film transistors were fabricated with ion gel gate dielectrics. These thin-film transistors exhibited excellent band transport with a low threshold voltage (<1 V), high mobility (12.5 cm²/(V·s)) and a high on/off current ratio (10⁵).

Highly Flexible MoS₂ Thin-Film Transistors with Ion Gel

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Science of Advanced Materials – SAM

Nanocombs have been synthesized by thermal evaporation of ZnO powder in a tube furnace . The comb-like structures grow on an alumina substrate placed downstream, and growth is only observed in the region where the temperature ranges from ¼1050–1250°C, regardless of the evaporation temperature.

ZnO – nanostructures, defects, and devices - ScienceDirect

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Study of Indium Tin Oxide (ITO) for Novel Optoelectronic

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Angewandte Chemie International Edition: Early View

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