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Marc Meunier .pdf**

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electrons are assumed to serve as the primary charge carriers,

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Cross-linked polyethylene, commonly abbreviated PEX or XLPE, is a form of polyethylene with cross-links. It is formed into tubing, and is used predominantly in

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Polyethylene (PE) is a prototype organic insulator and the material of choice for high-voltage applications. Nonetheless, our knowledge of the microscopic processes

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Seminar: characterisation of charge carrier traps

Seminar: Characterisation Of Charge Carrier Traps In Polymeric Insulators: :

Exciton self- trapping in bulk polyethylene -

We studied the behaviour of an injected electron hole pair in crystalline polyethylene theoretically. Time-dependent adiabatic evolution by ab initio molecular

E-field dependent conduction in low-density

Polyethylene Jerilyn Where electrons are the primary charge carriers, their mobility is dependent on their probability of hopping between trapping sites treated

Patent us7732806 - refractive index variable

transparent polymers such as polyethylene, Nylon, polyester, polycarbonate, polyarylate, However, the stabilization energy through electron trapping

Electron trapping in low-density polyethylene -

How to Cite. Markiewicz, A. and Fleming, R. J. (1986), Electron trapping in low-density polyethylene. J. Polym. Sci. B Polym. Phys., 24: 1713 1724. doi: 10.1002

Scanning voltage microscopy by connecting the

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Self- trapping vs. non- trapping of electrons and

We show, by electronic structure based molecular dynamics simulations, that an extra electron injected in crystalline polyethylene should fall spontaneously into

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An electron trapping model is proposed to explain the previously observed thermoluminescence output from polyethylene exposed to ultraviolet radiation. Ionization

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Electron trapping and hydrogen-atom reactions in

Abstract The absorption spectrum of electrons trapped in polyethylene during irradiation at low temperature is studied here, and an approximate G value for this of

Charge trapping in gamma irradiated low-density

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Electron transport in semiconducting polymers is usually inferior to hole transport, which is ascribed to charge trapping on defect sites. The observation of an

Thermoluminescence in polyethylene: ii. dose

Abstract. The dose dependence of thermoluminescence output from low- and high-density polyethylene is reported. Using a simple electron-ion recombination model of

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The Journal of chemical physics 123 (13), 134906-134906, 2005. 58: 2005: Models of electron trapping and transport in polyethylene: Current voltage characteristics

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Molecular modeling of electron trapping in polymer

Although our goal is to understand the role of defects at the molecular level in electron trapping and the formation of space charge in polyethylene,

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Exciton self-trapping in bulk polyethylene 4627 4. Righi M C, Tosatti E, Scandolo S, Santoro G and Serra S 2001 Electron hole trapping and selftrapping in

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Modelling self trapping and trap mutation in and modeling of high-crystalline polyethylene yielding electron microscopy study,