



DIPARTIMENTO DI SCIENZE
MATEMATICHE E INFORMATICHE,
SCIENZE FISICHE E SCIENZE DELLA TERRA
Dottorato di Ricerca in Fisica

Appunti di Fisica '22

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Sala seminari, CNR-IPCF

Dyes from the South

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Dye-sensitized solar cells (DSSCs) constitute an exciting way to profit the Sunlight. But why are they not considered a possibility, especially at the South of the Equator line? Our work explores using and applying several natural dyes as sensitizers to profit from biological waste accumulated or discarded. Some are extracted from Antarctic sources, others from native flowers or fruits. Even when conversion efficiencies are lower, DSSCs assembled from these dyes could offer an alternative for countries with low investment in Science and Technology.

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