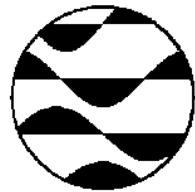


Dye Solar Cells



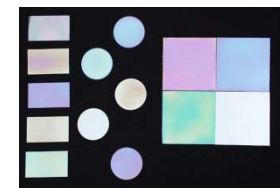
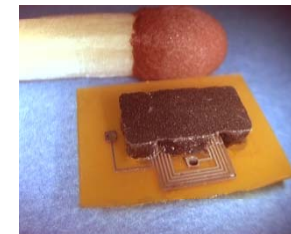
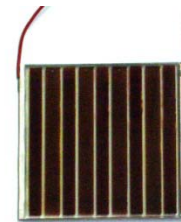
SOLARONIX SA

** 원료문의 및 견적 :
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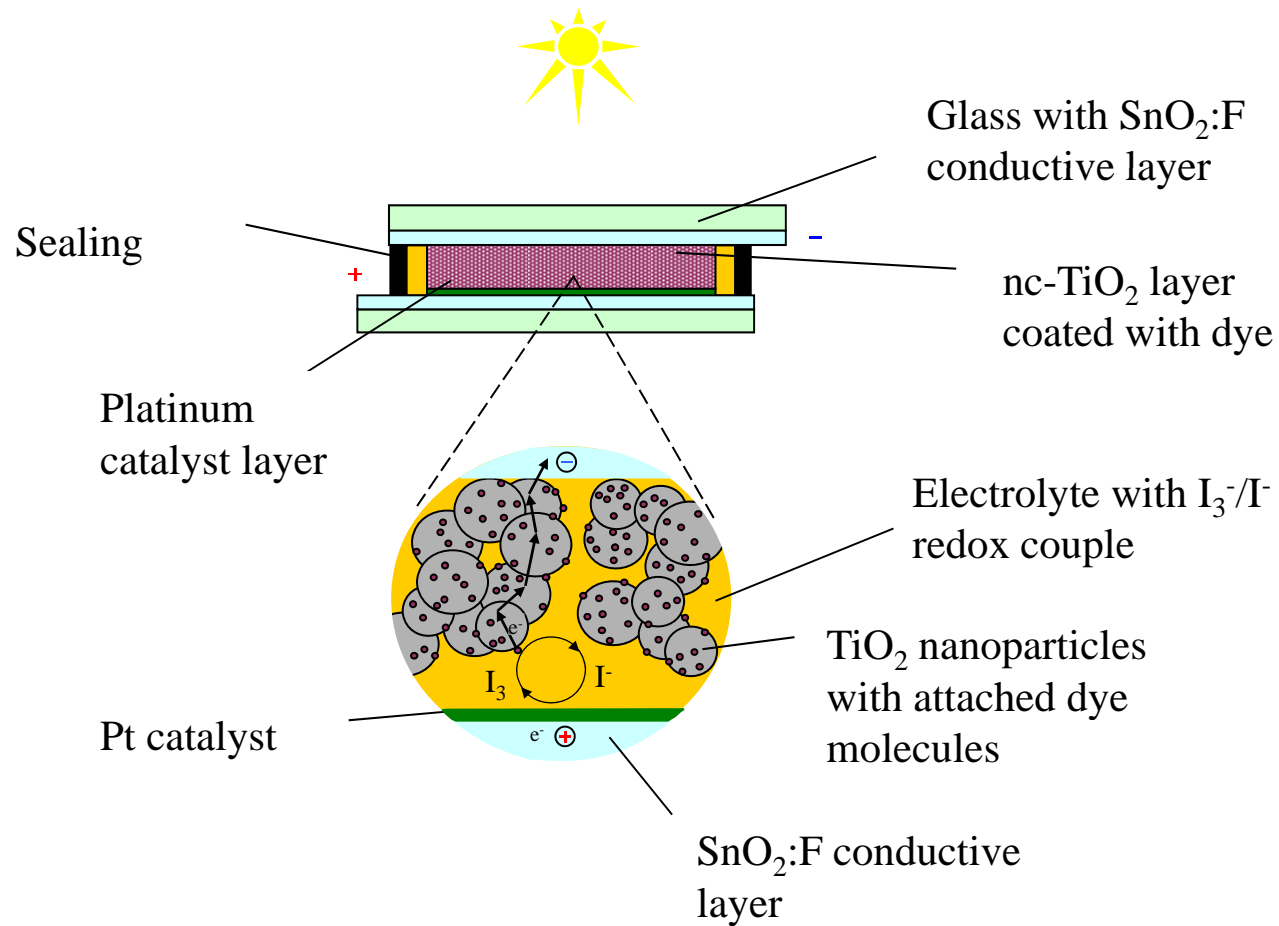
About Solaronix

Founded by Andreas & Toby Meyer in 1993
Located in Aubonne, Switzerland

- Dye solar cell developments (→ ECN)
- Solid-state DSC (2.9 % eff.) (→ EPFL)
- Specialty chemicals – Ru-dyes, nc-TiO₂
- Contract R&D + 2 Euro-Projects
- Printed CIGS absorber (6.7 % eff., Pat.)
- Conductive coatings, TPV Si-modules
- Low-light Si-cell + single cell converter
- Test equipment (SR-unit, S-lamp)



Dye Solar Cell - Schematics



Dye Solar Cell - Outlook

- Stability & durability tests (IEC 61646)
- Field testing of DSC modules
- Rooftop ~ 100 Wp Dye Solar Cell modules at Solaronix
- Improve module efficiency to ~ 8 %
- Team-up with ECN → create new company

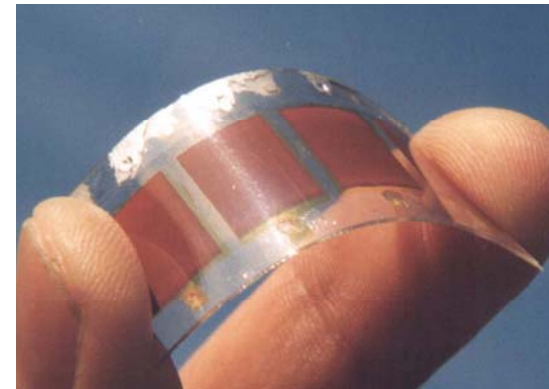
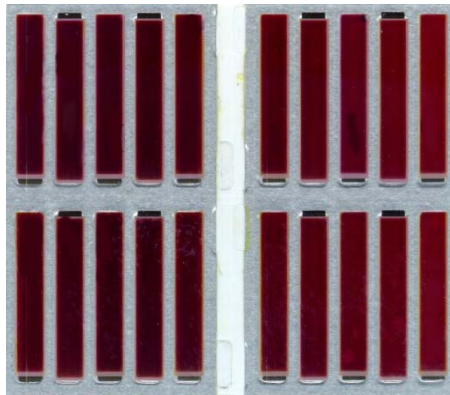
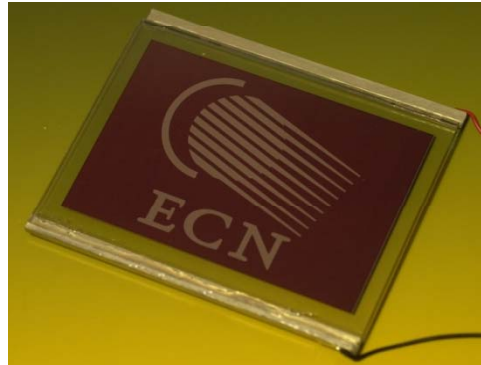
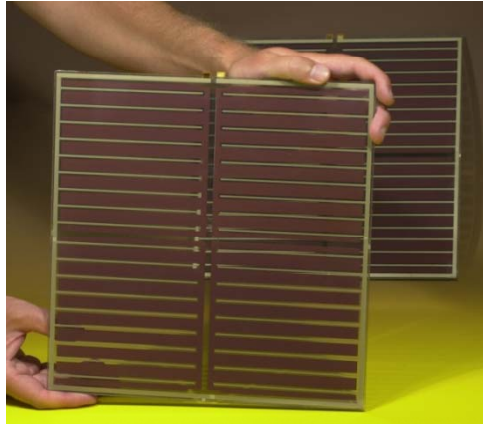


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Dye Solar Cell - Examples





Dye Solar Cell - State of the Art

- $\eta \sim 6 \%$ with industrial processes
- $\eta = 10.7 \%$ EPFL lab cells
- Thermal test 1000 hours @ 85°C < 15 % power drop
- Large area 50 x 50 cm with W-Module technology
- Low cost compatible < 1.3 €/Wp
- Choice of colors, flexible substrates, solid-state....

Thank you for the attention



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