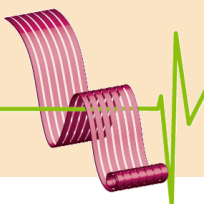


COST Action MP1307

2013 | 2018

StableNextSol



Stable Next-Generation Photovoltaics:

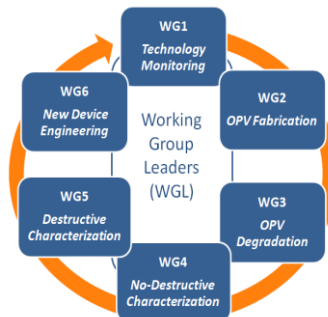
Unravelling Degradation Mechanisms of Organic Solar Cells by Complementary Characterization Techniques

Objectives

- To create an interdisciplinary network of laboratories and industry, with complementary analytical techniques to study the degradation mechanisms of state-of-the-art Organic Solar Cells to foster the Next-Generation of Organic Photovoltaics.

Working Groups

- **WG 1: Technology Monitoring** on device materials-configuration, degradation protocols, characterization methodologies, packaging technologies and PV policy
- **WG 2: OPV Fabrication** of well developed state-of-the-art OPVs and test structures
- **WG 3: OPV Degradation.** In-situ degradation of state-of-the-art OPVs following well-established ISOS degradation protocols.
- **WG 4: Non-Destructive Characterization** material degradation, physical parameter, device failure relationship.
- **WG 5: Destructive Characterization.** Detect degradation at buried interface and in the bulk using tools that sputter in parallel to the analysis.
- **WG 6: New Device Engineering.** Design of the next generation stable OPVs taking into account results from other WGs, especially WG4 and WG5.



Main Achievements

- Two main meetings on OPV stability being organized.
- Increase the Action members >100 members, 11 Industries.
- Following ISOS protocols for the degradation/stability analysis of OPVs
- Applying destructive characterization techniques to study degradation.
- Applying non-destructive characterization techniques to study degradation.

Gender Balance and Early Stage Researcher

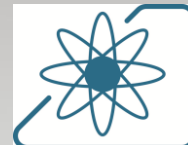
- Objectives (GE-IP): To promote a gender balance & to encourage young female scientists to pursue a scientific careers.
- Objectives (ESR-IP): Aspire ESRs to continue in research & improve their visibility and network.
- Status: **50%** of group leaders are females and **38%** are MC members. ESR are active part of every WG, **22%** as MC Members.

Dissemination

- Web page: www.StableNextSol.eu
- Newsletter.
- Target audiences: directly and indirectly related to the Action.
- Foreseen Support Measures: Internet sites such as web site, twitter, LinkedIn & Facebook.
- Publications and webinars through the SOPHIA European Research infrastructure.

www.cost.eu/mpns

Materials,
Physics &
Nanosciences
(MPNS)



Participating countries: **23**

BE, CH, CY, DE, DK, EL, ES, FI, FR, HR, HU, IE, IL, IT, LT, MT, NL, PL, PT, RS, SE, TR, UK

Internat. Collaboration: **3**

RU, US, CN

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Action Website

<http://stabilnextsol.eu/>



Image caption: StableNextSol overview.



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