LIMPID
Nanocomposite Materials for Photocatalytic Degradation of Pollutants

Collaborative Project:

NMP.2012.2.2-6 Photocatalytic materials for depollution (SICA - Specific International Co-operation Action)

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Istituto per i Processi Chimico Fisici – IPCF

LIMPID aims at developing materials and technologies based on the combination of different types of nanoparticles into a polymer host to generate innovative nanocomposites to apply for the photocatalytic degradation of pollutants and bacteria, both in air or in aqueous solution. One of the main challenges of LIMPID is the choice of the host, as photocatalysts could degrade an organic matrix. The incorporation of nanoparticles in polymers intends to merge the distinct components into an original class of catalysts and to prevent nanoparticle leaching, thus strongly limiting the potential environmental risk.

The project gathers 12 partners from 4 EU member states and 3 from non EU countries, including 2 ASEAN states, all with high level of expertise in their respective scientific and technological fields: 4 universities, 2 RTD institutions, 4 industrial partners and 1 SME

1. CONSIGLIO NAZIONALE DELLE RICERCHE - Italy
2. UNIVERSIDAD DEL PAIS VASCO - Spain
3. FRAUNHOFER INSTITUTE - Germany
4. 4 ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - Switzerland
5. UNIVERSITI TEKNOLOGI MALAYSIA UTM Malaysia
6. CHULALONGKORN UNIVERSITY CU Thailand
7. UNIVERSITY MCGILL University Canada
8. JOHNSON MATTHEY PLC. United Kingdom
9. SOLVAY SPECIALTY POLYMERS ITALY S.P.A. Italy
10. XYLEM SERVICES GMBH XYLEM SERV. Germany
11. ACCIONA INFRAESTRUCTURAS S.A. Spain
12. AQUAKIMIA SDN BHD Malaysia

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