



Winners of the ExxonMobil Chemical European Science and Engineering Award

1995 Zeolite Catalysis

Leonid KUSTOV, Russian Academy of Sciences, Moscow (Russian Federation)

Design of highly selective heterogeneous catalysts on the molecular level and the cooperative effects of active sites of different nature

Johan MARTENS, Catholic University of Leuven, Leuven (Belgium)

Molecular shape selective conversions of n-alkanes in bifunctional zeolite catalysts

1997 Polymer Synthesis

Vincenzo BUSICO, University Federico II, Naples (Italy)

Enantioselectivity and stereoselectivity in metallocene-catalyzed 1-alkene polymerizations: a modern web of Penelope

Dermot O'HARE, University of Oxford, Oxford (United Kingdom)

Stereospecific Olefin Polymerization Catalysis using Hybrid Organometallic – Inorganic Solids

1999 Carbonylation of Olefins

No award

2001 In Situ Tailoring of Olefin Based Polymers

Gregory SOLAN, University of Leicester, Leicester (United Kingdom)

Late transition metal catalysts for olefin polymerization featuring polyiminopyridine ligand supports

2003 Characterization of Petrochemical Materials

Eric GAIGNEAUX, Catholic University of Louvain, Louvain-la-neuve (Belgium)

Oxides catalyze hydrocarbon oxidation processes more efficiently when they work in a slightly reduced state : - a direct evidence of this apparent paradox, - understanding the mechanism of the phenomenon, - how to proceed practically

Christine KIRSCHHOCK, Catholic University of Leuven, Leuven (Belgium)

Discovery of the template directed mechanism of zeolite formation on the example of MFI type materials : Self-assembly of nanoscopic silicate building units and the use of these nanoslabs to design new materials

2005 High Throughput Experimentation and/or Modelling

Joeri DENAEYER, Free University Brussels, Brussels (Belgium)

High-throughput experimental methods and modeling techniques for studying adsorption and catalytic effects on microporous catalysts in the liquid phase

José SERRA ALFARO, Research Center Jülich, Jülich (Germany)

Exploration of multicomponent perovskite-based materials as improved electrocatalysts for solid oxide fuel cells, applying high-throughput experimentation and predictive modeling techniques

2007 Polymer Processing

Jan VERMANT, Catholic University of Leuven, Leuven (Belgium)

Flow induced alignment and orientation of colloidal particles in viscoelastic liquids

Martin ZATLOUKAL, Tomas Bata University, Zlin (Czech Republic)

Understanding of different types of interfacial instabilities in multi-layer polymer melt flows

2009 Sustainable Technology Developments in Relation to the Current and Future Petrochemical Industry

Ive HERMANS, Swiss Federal Institute of Technology, Zürich (Switzerland)

A holistic approach to catalytic engineering; case study on selective oxidations

2011 Structure-Property-Relationships and Applications of Olefin Based Polymers

Peter VAN PUYVELDE, Catholic University of Leuven, Leuven (Belgium)

Tailoring crystalline morphology through intelligent crystalline processing

2013 Separation Techniques and Separation Modeling in Petrochemistry

Jorge GASCON, Delft University of Technology, Delft (The Netherlands)

Engineering metal organic frameworks for gas separation

2015 Polymers and Nanotechnology

Maarten ROEFFAERS, Catholic University of Leuven, Leuven (Belgium)

Nanoscale mapping of catalyst performance

2017 Functional Nanomaterials for Energy and Sustainable (Petro)Chemistry

Camille PETIT, Imperial College London, London (United Kingdom)

Creating a multifunctional materials platform for combined CO₂ capture and conversion