Curriculum Vitae – *Dr. Archodoulaki*

Current working address and contact information

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Professional experience

2005 – now	Ao. Professor at the TU Wien, Institute of Materials Science and Technology (with 1x parental leave)
1998 – 2005	Post Doc TU Wien, Institute of Materials Science and Technology (with 1x parental leave)
1994 – 1998	Department of Agrobiotechnology, IFA-Tulln, University Lecturer at the University of Natural Resources and Applied Life Sciences Vienna
1991-1993	Lecturer at the Montanuniversität of Leoben, Department Chemistry of Polymeric Materials
10.2007-09.2008 & 06.2002-06.2004	Parental leave

Education

12.09.2005	Habilitation in „Polymer Engineering“, TU Wien
1990-1993	PhD at the Montanuniversität of Leoben. Thesis: Optimisation of the properties profile of fire protection systems based on expended graphite. (Department Chemistry of Polymeric Materials, Univ. Prof. Dr. K. Lederer)
1985-1990	Polymer Engineering degree at the Montanuniversität of Leoben. Diploma thesis: Optimisation of the Pyrolysis conditions of PMMA. (Department Chemistry of Polymeric Materials, Univ. Prof. Dr. K. Lederer).
1984-1985	Preliminary studies at the Montanuniversität of Leoben
Till 1984	Primary and secondary school in Kavala/Greece

Main areas of research and achieved results

- Degradation behaviour and Recycling

Results achieved:

- *Solutions for avoiding chain-scission or crosslinking*
- *Clarification of property changes resulting from processing, ageing and recycling in dependence of the polymer type*
- *Contribution to the understanding of the different degradation mechanisms of polymers in dependence of their molecular structure, additive package and stabilisation state*
- *Developing solutions for the enhancement of the long-time behaviour of polymers under natural ageing and accelerated ageing conditions (thermo-oxidative, chemicals)*

- Long-Chain Branching of PP via Reactive Extrusion and Compatibilization of polymers

Results achieved:

- *Upcycling of Polypropylene-Waste*
- *Improvements to the recycling strategies of Blends and multilayer Films*

- Structure property correlations of polymers

Results achieved:

- *Development of High-Performance Glass Fibre-Polypropylene Composite Laminates*
- *Investigations on the fatigue behaviour of different polymers*
- *Failure analysis of implants*

- Tribology of polymers

Results achieved:

- *Clarifying of the wear behaviour of polymers under different load collective*

Awards& Memberships

2020 Best Teacher Award Faculty of Mechanical and Industrial Engineering
2019 Best Lecture Award Faculty of Mechanical and Industrial Engineering
2018 Energy Globe Award _AUSTRIA _2018- Category: Sustainable Plastics
2018 Best Teacher Award Faculty of Mechanical and Industrial Engineering
2009 MiA Award 2009, “Wissenschaft und Forschung”
1991 Voest-Alpine-Stahl Award as excellent Diploma thesis

2017 - now	Member of the Senate TU Wien; Co-speaker of the staff group Z2
2017- now	Faculty council (vice chair) Member TU Wien