

PANAYOTA TSOTRA

WORKING EXPERIENCE

2019 – present

KATZ, Head of Applied Research and Development

2013 – 2019

University of Applied Science and Arts FHNW, Windisch, Switzerland

School of Engineering, Institute of Polymer Engineering / Project manager (Composite Materials)

2006 – 2011

Huntsman Advanced Materials, Basel, Switzerland

Technical Support Group Leader (Composites, Tooling and Adhesives)

2004 - 2006

University of Patras, Greece, Applied Mechanical Laboratory / Postdoc Researcher

2000 - 2004

University of Kaiserslautern, Germany

Institute for Composite Materials / Research Assistant

EDUCATION:

2000 - 2004

PhD in Mechanical Engineering at Institut für Verbundwerkstoffe GmbH, Kaiserslautern, Germany.

Title of thesis: „*Electrically Conductive Epoxy Matrix Composites*“

1993 - 1999

Degree in Mechanical Engineering (Dip. Eng.),

Department of Mechanical Engineering and Aeronautics University of Patras, Greece.

PARTICIPATION IN RESEARCH PROJECTS (SELECTION)

2017 - 2019 CTI-Project: “Verankerte Kunststoffstützwand (KSW) zur Sicherung von Böschungen und Geländesprüngen“

2017 - 2018 Swiss Federal Office of Energy SFOE Project: “Advanced polymer composites for thin bipolar plates for proton exchange membrane fuel cells (CompBiPol)”

2017 - 2018 Gerbert RUF Stiftung Project: “Design of Bio-inspired textile products with natural fibres (DesNat)”

2013 - 2014 CTI Project / “Fast Curing Compression Moulding (FastCRTM) “

2009 - 2011 Level 1 EU Project FP7: “Innovative Repair of Aerospace Structures with Curing Optimization & Life Cycle Monitoring Abilities (IAPETUS) ”

2007 - 2009 CTI-Project: “Vanishing Textile binder structure for the stabilisation of dry carbon fibre preforms in the Resin Transfer Moulding process (VANTEX)”

2005 - 2006 STREP Project FP6: “Aerospace Nanotube Hybrid Composite Structures with Sensing and Actuating Capabilities (STREP)”

2000 - 2005 DFG Project: “Composite Materials with Graded Electrical Conductivity”

PUBLICATIONS (SELECTION)

- Pascual, A., Toma, M., **Tsotra, P.**, Grob, A.C. On the stability of PEEK for short processing cycles at high temperatures and oxygen-containing atmosphere, *Polymer Degradation and Stability*, 165, (2019), pp. 161 - 169
- Karapappas, P., **Tsotra, P.**, Scobbie, K. Epoxy gelcoats with enhanced mechanical and thermal properties by the inclusion of nanofillers. *Express Polymer Letters*, 5/3 (2011) pp. 218–227.
- Kostopoulos, V., Vavouliotis, A., Karapappas, **P., Tsotra, P.**, Paipetis, A. Damage Monitoring of Carbon Fiber Reinforced Laminates Using Resistance Measurements. Improving Sensitivity Using Carbon Nanotube Doped Epoxy Matrix System. *Journal of Intelligent Material Systems and Structures*, 20/9 (2009) pp. 1025- 1034.
- Tsantzalis, S., Karapappas, P., Vavouliotis, A., **Tsotra, P.**, Kostopoulos, V., Friedrich, K.: Enhancement of the mechanical performance of an epoxy resin and fiber reinforced epoxy resin composites by the introduction of CNF and PZT particles at the microscale. *Composites Part A* 38 (2007) pp.1076-1081.
- **Tsotra, P.**, Friedrich, K.: Electrical and Dielectric Properties of Epoxy Resin/ Polyaniline-DBSA Blend. *Journal of Materials Science Letters* 40 (2005) pp. 4415-4417.

- **Tsotra, P.**, Friedrich, K.: Short Carbon Fibers Reinforced Epoxy Resin/Polyaniline Blends: Their Electrical and Mechanical Properties. *Composites Science and Technology* 64 (2004)
- **Tsotra, P.**, Friedrich, K.: Electrical and mechanical properties of functionally graded epoxy-resin/carbon fibre composites. *Composites Part A* 34 (2003), pp. 75-82.

— More than 40 articles in international scientific journals & conferences

Total citations: 845, 407 since 2014, h-index: 13, i10 index: 15 ([GoogleSchoar](#))

— 1 chapter in the scientific book «Carbon Nanotube Enhanced Aerospace Composite Materials» from Springer