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Professeur

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MATEIS UMR 5510

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Research activities / interests

Keywords

Microstructure – mechanical properties relationships, elastomers, linear and non-linear viscoelasticity, strain induced crystallization, degradation, modeling, nanocomposites

Ongoing projects

- SIC in natural rubber : in situ experiments in dynamic conditions, modeling by phase field approach
- Relaxations in amorphous polymer, especially in rubber
- Degradation by irradiation of filled EPDM
- silicone membrane architected by differential crosslinking for Bio-applications
- Microstructure and properties of membranes for Li Battery
- Microstructure and properties of HDL filled nanocomposites
- Microstructure and properties of nanostructure auto-associative polymer for Adhesives

Institutions as staff member

- Professor INSA de Lyon (from 2011)
- CNRS scientist in MATEIS (1999-2011)
- Postdoctorate at CCMS Rensselaer Polytechnic Institute (1998-1999)

Institutions as student

- Ph-D Joseph Fourier University/ INPG (1998)
- Master in Material Science and Physics Engineer of INPG – ENSPG (1995)

Teaching activities

- Physics for undergraduate
- Polymer science for Master students

Administrative responsibilities

- Head of the Polymer group (PVMH) of MATEIS laboratory
- Member of the council of the INSA undergraduate department of INSA
- Experts for the 28th section for INSA
- Member of the SIMI 9 ANR committee