

Antoine JURY - List of Publications

Article:

- [1] **A. Jury**, X. Balandraud, L. Heller, P. Sittner, M. Karlík, “Reconstruction of heat sources induced in superelastically loaded Ni-Ti wire by localized deformation processes”, *Experimental Mechanics* 61, 349-366, 2021, <https://doi.org/10.1007/s11340-020-00648-8>
- [2] M. Frost, **A. Jury**, L. Heller, P. Sedlak, “Experimentally validated constitutive model for NiTi-based shape memory alloys featuring intermediate R-phase transformation: A case study of Ni₄₈Ti₄₉Fe₃”, *Materials & Design* 203, 109593, 2021
<https://doi.org/10.1016/j.matdes.2021.109593>

Conference proceedings:

- [3] **A. Jury**, X. Balandraud, L. Heller, E. Alarcon, M. Karlík, “One-dimensional heat source reconstruction applied to phase transforming superelastic Ni-Ti wire”, in: A. Baldi (ed.) *Residual Stress, Thermomechanics & Infrared Imaging and Inverse Problems*, Volume 6, Chapter 7, Conference Proceedings of the Society for Experimental Mechanics Series, Reno, USA, 3-6 June 2019, Springer, Cham, 2020. https://doi.org/10.1007/978-3-030-30098-2_7

Presentations at international conference:

- [4] **A. Jury**, L. Heller, E. Alarcon, P. Šittner, R. Stalmans, C.F. Promper, “Thermomechanical characterization of NiTiFe for pipe coupling application”, *ESOMAT (European Symposium on Martensitic Transformations)*, Metz, France, 27-31 August 2018.
- [5] L. Heller, P. Šittner, L. Kadeřávek, O. Tyc, E. Alarcon, **A. Jury**, X. Balandraud, “Transformation-plasticity coupling in superelastic NiTi characterized by in-situ DIC, resistometry, IR thermography and DMA”, *IUTAM'19 Phase Transformations in Shape Memory Materials: Modeling and Applications*, The University of Texas at Austin, USA, April 28 – May 2, 2019
- [6] E. Alarcon, L. Heller, **A. Jury**, P. Šittner, X. Balandraud, “Heat dissipated at moving austenite-martensite interfaces in superelastic NiTi wires”, *IUTAM'19 Phase Transformations in Shape Memory Materials: Modeling and Applications*, The University of Texas at Austin, USA, April 28 – May 2, 2019