

2015

Structural behavior and magnetic properties of a Ni-Mn-Ga single crystal across the martensite/austenite two-phase region

E. Pagounis, A. Laptev, M. J. Szczerba, R. Chulist und M. Laufenberg
Acta Mater. 89, 32-40 (2015)

[Zum Dokument](#) 

MSM-Greifer mit stationärer Aktivierung

A. Kazi, M. Raab, B. Ernst, T. Schiepp und M. Laufenberg
VDI-Mechatronik-Tagung 2015, Dortmund, Germany Text

[Zum Dokument](#) 

2014

Over 7% magnetic field-induced strain in a Ni-Mn-Ga five-layered martensite

E. Pagounis, R. Chulist, M. J. Szczerba und M. Laufenberg
Appl. Phys. Lett. 105, 052405 (2014)

[Zum Dokument](#) 

Magnetomechanical properties of a high-temperature Ni-Mn-Ga magnetic shape memory actuator material

E. Pagounis, A. Laptev, J. Jungwirth, M. Laufenberg und M. Fonin
Scripta Mater. 88, 17-20 (2014)

[Zum Dokument](#) 

High-temperature magnetic shape memory actuation in a Ni-Mn-Ga single crystal

E. Pagounis, R. Chulist, M.J. Szczerba und M. Laufenberg
Scripta Mater. 83, 29-32 (2014)

[Zum Dokument](#) 

FEM-Simulation of Magnetic Shape Memory Actuators

T. Schiepp, M. Maier, E. Pagounis, A. Schlüter und M. Laufenberg
IEEE Trans. Magn. 50, 7024504 (2014)

[Zum Dokument](#) 

Recent developments in magnetic shape memory actuation

E. Pagounis und P. Müllner
14th International Conference on New Actuators and Drives ACTUATOR, Bremen,
Germany, S. 86 (2014)

[Zum Dokument](#) 

A modular energy efficient actuator based on magnetic shape memory alloys

L. Riccardi, T. Schiepp, B. Holz, M. Maier, H. Janocha und M. Laufenberg
14th International Conference on New Actuators and Drives ACTUATOR, Bremen,
Germany, S. 112 (2014)

[Zum Dokument](#) 

Magnetic Shape Memory Actuators for Fluidic Applications

T. Schiepp, E. Pagounis und M. Laufenberg
9th International Fluid Power Conference IFK, Aachen, Germany (2014)

[Zum Dokument](#) 

2013

Structural modification and twinning stress reduction in a high-temperature Ni-Mn-Ga magnetic shape memory alloy

E. Pagounis, R. Chulist, T. Lippmann, M. Laufenberg und W. Skrotzki
Appl. Phys. Lett. 103, 111911 (2013)

[Zum Dokument](#) 

Failure mechanisms and high-cycle fatigue of MSM actuators

T. Schiepp, V. Detkov, M. Maier, E. Pagounis und M. Laufenberg
4th International Conference on Ferromagnetic Shape Memory Alloys ICFSMA 2013,
Boise, Idaho, USA.

[Zum Dokument](#) 

2012

Progress in developing smart magnetic materials for advanced actuator solutions

E. Pagounis und H. Schmidt
13th International Conference on New Actuators and Drives ACTUATOR, Bremen,
Germany, S. 317 (2012)

[Zum Dokument](#) 

2011

A Novel Concept for Strain Sensing based on the Ferromagnetic Shape Memory Alloy NiMnGa

J. Stephan, E. Pagounis, M. Laufenberg, O. Paul und P. Ruther
IEEE Sensors J. 11, 2683-2689 (2011)

[Zum Dokument](#) 

Effects of film thickness and composition on the structure and martensitic transition of epitaxial off-stoichiometric Ni-Mn-Ga magnetic shape memory films

Y. Luo, P. Leicht, A. Laptev, M. Fonin, U. Rüdiger, M. Laufenberg und K. Samwer
New J. Phys. 13, 013042 (2011)

[Zum Dokument](#) 

2010

Production and characterization of large single crystals made of ferromagnetic shape memory alloys Ni-Mn-Ga

L. Sturz, A. Drevermann, U. Hecht, E. Pagounis und M. Laufenberg
Phys. Proc. 10, 81-86 (2010)

[Zum Dokument](#) 