Curriculum Vitae

Name Surname : Gursev Pirge

Date of Birth : December 6th, 1969

Citizenship : Turkish

Title : Associate Professor

Education:

Degree	Field	University	Year
Bachelor of Science	Mechanical Engineering	Bogazici University	1991
Master of Science	Mechanical Engineering	Middle East Technical University	1997
Ph.D.	Mechanical Engineering	Bogazici University	2005

Theses

M.S. Thesis: ‘’Computer-Aided Materials Selection for High Temperature Applications”,
Advisors: Prof. Dr. Hakkı Eskicioğlu, Assoc.Prof.Dr. Bilal Doğan.

PhD Thesis: "Characterization of NiMnGa Magnetic Shape Memory Alloys ",
Advisor: Prof.Dr. Sabri Altıntaş.

Professional Background

Title	Institution	Year
Manufacturing Engineer	Air Supply & Maintenance Center (TuAF)	1991 - 1994
Teaching Assistant	Turkish Air Force Academy	1997 - 2001, 2002 - 2007
Research Fellow	Defence Research and Development Canada, Atlantic (DRDC Atlantic), Dartmouth, NS, Canada	2001 - 2002
Assistant Professor	Turkish Air Force Academy	2007 - 2009
Airworthiness and Flight Safety Officer	Joint Strike Fighter Project Office	2009 - 2012
Assistant Professor	Turkish Air Force Academy	2012 - 2014
Associate Professor	Turkish Air Force Academy	2014 - 2017
Head of Aeronautical and Space Engineering Dept.	Turkish Air Force Academy	2016 - 2017
Head of Mechanical Engineering Dept.	Altinbas University	2017 -

Publications

A. International Journal Papers

A1. J.C. Bennett, C.V. Hyatt, M.A. Gharghouri, S. Farrell, M. Robertson, J. Chen, G. Pirge, "In situ transmission electron microscopy studies of directionally solidified Ni–Mn–Ga ferromagnetic shape memory alloys", Materials Science and Engineering A (ISI) , 409-414 pp., 2004 , DOI: 10.1016/j.msea.2003.11.078

A2. J.C. Bennett, C.V. Hyatt, M.A. Gharghouri, S. Farrell, M. Robertson, G. Pirge , J. Chen, ''Transmission Electron Microscopy of Martensitic Phase Transformations inNi Mn Ga Ferromagnetic Shape Memory Alloys'', Microscopy and Microanalysis (ISI), 2003, DOI:10.1017/S1431927603442918

A3. G. Pirge, C.V. Hyatt, S. Altıntaş, "Characterization of NiMnGa magnetic shape memory alloys", Journal of Materials Processing Technology (ISI) , 1266-1272 pp., 2004 , DOI: 10.1016/j.jmatprotec.2004.04.225

A4. Gursev Pirge, Abdurrahman Hacioglu, Murat Ermis, Sabri Altintas, "Determination of the compositions of NiMnGa magnetic shape memory alloys", Computational Materials Science (ISI) , 189-193 pp., 2009 , DOI: 10.1016/j.commatsci.2008.03.055

A5. Gursev Pirge, "Characterization of thermal barrier coated various aerospace alloys", Aircraft Engineering and Aerospace Technology: An International Journal (ISI) , 359-364 pp., 2008 , DOI: 10.1108/00022660810882719

A6. Mediha Kök, Gursev Pirge, Yıldırım Aydoğdu, ''Isothermal oxidation study on NiMnGa ferromagnetic shape memory alloy at 600–1000 ◦C'', Applied Surface Science (ISI), 136-140 pp., 2013, DOI: 10.1016/j.apsusc.2012.12.033

A7. B. Kılıç, H. Telli, S. Tüzemen, A. Başaran, G. Pirge, ''Design of hybrid nanoheterostructure systems for enhanced quantum and solar conversion efficiencies in dye sensitized solar cells'', Journal of Applied Physics, 2015, DOI:10.1063/1.4916783

B. International Papers (Printed in Conference Proceedings)

B1. G. Pirge, A. Başaran, Z. Cömert, P. Topuz, S. Altıntaş, "Characterization of Thermal Barrier Coatings", 10th International Conference and Exhibition of the European Ceramic Society, 17-21 June 2007, Berlin, Germany.

B2. G. Pirge, "Effect of Base Metal on the Performance of Thermal Barrier Coatings", 10th International Conference and Exhibition of the European Ceramic Society, 17-21 June 2007, Berlin, Germany.

B3. G. Pirge, İ. Koç, A. Başaran, Z. Cömert ve S. Altıntaş, "Possible Applications of Thermal Barrier Coatings in Space Practices", Recent Advances in Space Technologies (RAST 2007), 14-16 June 2007, Istanbul, Turkey.

B4. A. Başaran, R. Varol, G. Pirge, S. Baştürk, H. Varol, "Investigation of the Effects of Shot Peening and Elevated Temperatures on the Fatigue Strength of Copper Added P/M Steels", 8. Uluslar Arası Kırılma Konferansı (International Fracture Conference), 7-9 November 2007, Istanbul, Turkey.

B5. G. Pirge, N. Kılıç, O. N. Uçan ve S. Altıntaş, “Evaluation of NiMnGa Magnetic Shape Memory Alloys Using Cellular Neural Networks”, III European Conference on Computational Mechanics, June 5-8, 2006, Lisbon, Portugal.

B6. G. Pirge ve S. Altıntaş, “Microstructure of NiMnGa Magnetic Shape Memory Alloys in the Austenite Phase”, European Materials Research Society (E-MRS) 2005 Fall Meeting, September 5-9, 2005, Warsaw, Poland.

B7. G. Pirge, M. Ermiş ve S. Altıntaş, “Prediction of the Martensite Transformation Temperatures of NiMnGa Magnetic Shape Memory Alloys Using Artificial Neural Networks”, European Materials Research Society (E-MRS) 2005 Fall Meeting, September 5-9, 2005, Warsaw, Poland.

B8. G. Pirge, C. V. Hyatt, S. Altıntaş, "Characterization of NiMnGa Magnetic Shape Memory Alloys", Proceedings of the International Conference on Advanced Materials & Processing Technologies, July 8-11, 2003, Dublin, Ireland.

B9. J. Chen, G. Pirge, M. A. Gharghouri, C. V. Hyatt, "Solidification behavior of NiMnGa magnetic shape memory alloys", Proceedings, 2nd Cansmart Workshop on Smart Materials and Structures, October 10-11, 2002, Montreal, Quebec, Canada..

C. Technical Reports

C1. “NiMnGa Magnetic Shape Memory Alloys: A Review”; Defence Research & Development Canada (Atlantic) project report.

Offered Courses

Materials Science & Engineering

Mechanical Properties of Materials

Aerospace Materials

Physical Metallurgy

Microstructure and Mechanical Properties of Materials

Deformation of Engineering Materials

Manufacturing Processes

Statics

Research Interest

Materials Characterization

Microstructural Analysis

Mechanical Analysis of Materials

Advanced Manufacturing and Processing of Alloys

Shape Memory Alloys and Magnetic Shape Memory Effect

Smart Materials

Oxidation Behavior of Ni-Based Superalloys and High Temperature Alloys

Awards & Decorations

Academic Excellence **Award** by the Turkish Air Force Command for my outstanding academic performance in the Aeronautical Engineering Department between 2003-2004.

Superior Service **Award** by the Turkish Air Force Academy Command for my superior service performance in the Academy between 2014-2015.

Administrative Excellence **Award** by the Turkish Air Force Command for my outstanding performance as the Head of the Planning and Improvement Department between 2015-2016.

Meritorious Service **Medal** (United States Navy, 2013) for my performance in the Joint Strike Fighter Project Office.