

Prof. MEHMET ALİ SAHİR ARIKAN

Personal Information

Email: a06492@metu.edu.tr

Advising Theses

ARIKAN M. A. S. , YILDIRIM E., Numerical and experimental investigation of ultrasonic embossing technique for fabrication of thermoplastic microfluidic devices, Doctorate, F.ÇOĞUN(Student), 2018

ARIKAN M. A. S. , Dynamic modelling and analysis of gun turret elevation drive system, Post Graduate, Ç.ÇİLOĞLU(Student), 2016

ARIKAN M. A. S. , AKIN T., Development of new, simple, and robust wafer level hermetic packaging methods for MEMS sensors, Doctorate, M.MERT(Student), 2015

ARIKAN M. A. S. , AKIN T., A THREE AXIS CAPACITIVE MEMS ACCELEROMETER ON A MULTI-STACK SUBSTRATE, Doctorate, S.TEZ(Student), 2014

ARIKAN M. A. S. , Machining of polycarbonate for optical applications, Post Graduate, M.BOLAT(Student), 2013

ARIKAN M. A. S. , AKIN T., Wafer level vacuum packaging of MEMS sensors and resonators, Post Graduate, M.MERT(Student), 2011

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Investigation of process-affected zone in ultrasonic embossing of microchannels on thermoplastic substrates**
Suclearli F., ARIKAN M. A. S. , YILDIRIM E.
JOURNAL OF MANUFACTURING PROCESSES, vol.50, pp.394-402, 2020 (Journal Indexed in SCI)
- **Investigation on replication of microfluidic channels by hot embossing**
Cogun F., Yildirim E., Arıkan M. A. S.
MATERIALS AND MANUFACTURING PROCESSES, vol.32, pp.1838-1844, 2017 (Journal Indexed in SCI)
- **Modeling of paint flow rate flux for elliptical paint sprays by using experimental paint thickness distributions**
Arikan M., Balkan T.
INDUSTRIAL ROBOT-AN INTERNATIONAL JOURNAL, vol.33, pp.60-66, 2006 (Journal Indexed in SCI)
- **Direct calculation of AGMA geometry factor J by making use of polynomial equations**
Arikan M.
MECHANICS RESEARCH COMMUNICATIONS, vol.29, pp.257-268, 2002 (Journal Indexed in SCI)
- **A kinematic structure-based classification and compact kinematic equations for six-dof industrial robotic manipulators**
Balkan T., Ozgoren M., Arikan M., Baykurt H.
MECHANISM AND MACHINE THEORY, vol.36, pp.817-832, 2001 (Journal Indexed in SCI)
- **Process simulation and paint thickness measurement for robotic spray painting**
Arikan M., Balkan T.
CIRP ANNALS-MANUFACTURING TECHNOLOGY, vol.50, pp.291-294, 2001 (Journal Indexed in SCI)
- **Process modeling, simulation, and paint thickness measurement for robotic spray painting**
Arikan M., Balkan T.
JOURNAL OF ROBOTIC SYSTEMS, vol.17, pp.479-494, 2000 (Journal Indexed in SCI)
- **A method of inverse kinematics solution including singular and multiple configurations for a class of**

robotic manipulators

Balkan T., Ozgoren M., Arıkan M., Baykurt H.

MECHANISM AND MACHINE THEORY, vol.35, pp.1221-1237, 2000 (Journal Indexed in SCI)

● **Modeling of paint flow rate flux for circular paint sprays by using experimental paint thickness distribution**

Balkan T., Arıkan M.

MECHANICS RESEARCH COMMUNICATIONS, vol.26, pp.609-617, 1999 (Journal Indexed in SCI)

● **PROWELD: an off-line welding robot programming package with an interactive graphical interface**

Balkan T., Arıkan M., Bulut M.

INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.12, pp.364-372, 1997 (Journal Indexed in SCI)

● **CONTACT STRESS AND SURFACE FATIGUE FAILURE ANALYSIS FOR COMBINED NORMAL AND TANGENTIAL LOADING**

ARIKAN M.

TRANSACTIONS OF THE CANADIAN SOCIETY FOR MECHANICAL ENGINEERING, vol.18, pp.249-267, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

● **MEMS Malzeme Karakterizasyonu için Bütünselik bir Elektrostatik Mikro Bükülme Test Yapısı Tasarımı ve Gerçekleştirilmesi**

YILDIRIM E., AKIN T., ARIKAN M. A. S.

Cankaya University Journal of Science and Engineering, vol.9, pp.9-23, 2012 (Other Refereed National Journals)

● **MEMS Malzeme Karakterizasyonu için Bütünselik bir Elektrostatik Mikro Bükülme Test Yapısı Tasarımı ve Gerçekleştirilmesi**

YILDIRIM E., ARIKAN M. A. S., AKIN T.

Çankaya Üniversitesi Journal of Science and Engineering, vol.9, pp.9-23, 2012 (National Non-Refereed Journal)

Refereed Congress / Symposium Publications in Proceedings

● **CHARACTERIZATION OF EMBEDDED MICROCHANNELS FABRICATED BY SLA**

Yıldırım E., Yaman U., Arıkan M. A. S.

4th INTERNATIONAL CONGRESS ON 3D PRINTING (ADDITIVE MANUFACTURING) TECHNOLOGIES AND DIGITAL INDUSTRY, Antalya, Turkey, 11 - 14 April 2019

● **Cam Geometry Generation and Optimization for Torsion Bar Systems**

Kurtulmus E., ARIKAN M. A. S.

33rd IMAC Conference and Exposition on Structural Dynamics, Florida, United States Of America, 2 - 05 February 2015, pp.459-471

● **An electrostatically actuated parylene microvalve for lab on a chip applications**

YILDIRIM E., ARIKAN M. A. S., KÜLAH H.

16. International Conference on Solid State Sensors, Actuators and Micro Systems, 5 - 09 July 2011

● **Parylene Tabanlı Çip-Üstü-Laboratuvar Sistemleri için bir Mikro Kapak Tasarımı ve Sızdırma Özelliklerinin Tespiti**

YILDIRIM E., ARIKAN M. A. S., KÜLAH H.

4. Mühendislik ve Teknoloji Sempozyumu, Turkey, 28 - 29 April 2011

Citations

Total Citations (WOS):117

h-index (WOS):6