

Prof. MEHMET ALİ SAHİR ARIKAN

Personal Information

Email: a06492@metu.edu.tr

Web: <https://avesis.metu.edu.tr/a06492>

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, Postgraduate, 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, Postgraduate, M.BOLAT(Student), 2013

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

ARIKAN M. A. S. , Rough cutting of germanium with polycrystalline diamond tools, Postgraduate, Ç.Yergök(Student), 2010

ARIKAN M. A. S. , A Feature Based Design Software for Parts To Be Machined in a Four-Axis CNC Lathe, Postgraduate, D.Hatipoğlu(Student), 2005

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

- I. **Investigation of process-affected zone in ultrasonic embossing of microchannels on thermoplastic substrates**
Sucularli F., ARIKAN M. A. S. , YILDIRIM E.
JOURNAL OF MANUFACTURING PROCESSES, vol.50, pp.394-402, 2020 (Journal Indexed in SCI)
- II. **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)
- III. **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, no.1, pp.60-66, 2006 (Journal Indexed in SCI)
- IV. **Direct calculation of AGMA geometry factor J by making use of polynomial equations**
Arikan M.
MECHANICS RESEARCH COMMUNICATIONS, vol.29, no.4, pp.257-268, 2002 (Journal Indexed in SCI)
- V. **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, no.7, pp.817-832, 2001 (Journal Indexed in SCI)
- VI. **Process simulation and paint thickness measurement for robotic spray painting**
Arikan M., Balkan T.

- CIRP ANNALS-MANUFACTURING TECHNOLOGY, vol.50, no.1, pp.291-294, 2001 (Journal Indexed in SCI)
- VII. **Process modeling, simulation, and paint thickness measurement for robotic spray painting**
Arikan M., Balkan T.
JOURNAL OF ROBOTIC SYSTEMS, vol.17, no.9, pp.479-494, 2000 (Journal Indexed in SCI)
- VIII. **A method of inverse kinematics solution including singular and multiple configurations for a class of robotic manipulators**
Balkan T., Ozgoren M., Arikan M., Baykurt H.
MECHANISM AND MACHINE THEORY, vol.35, no.9, pp.1221-1237, 2000 (Journal Indexed in SCI)
- IX. **Modeling of paint flow rate flux for circular paint sprays by using experimental paint thickness distribution**
Balkan T., Arikan M.
MECHANICS RESEARCH COMMUNICATIONS, vol.26, no.5, pp.609-617, 1999 (Journal Indexed in SCI)
- X. **PROWELD: an off-line welding robot programming package with an interactive graphical interface**
Balkan T., Arikan M., Bulut M.
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.12, pp.364-372, 1997 (Journal Indexed in SCI)
- XI. **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, no.3, pp.249-267, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **MEMS Malzeme Karakterizasyonu için Bütünleşik 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)
- II. **MEMS Malzeme Karakterizasyonu için Bütünleşik bir Elektrostatik Mikro Bükülme Test Yapısı Tasarımı ve Gerçekleştirilmesi**
YILDIRIM E., ARIKAN M. A. S. , AKIN T.
Cankaya Üniversitesi Journal of Science and Engineering, vol.9, pp.9-23, 2012 (National Non-Refereed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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
- IV. **Design and Leakage Characterization of a Microvalve for Parylene Based Lab-on-a-Chip Systems**
Yıldırım E., Arıkan M. A. S. , Külah H.
4. Mühendislik ve Teknoloji Sempozyumu, Ankara, Turkey, 28 - 29 April 2011

Citations

Total Citations (WOS):130

h-index (WOS):6