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Publons / Web Of Science ResearcherID: AAZ-6632-2021

ScopusID: 7004588941

Yoksis Researcher ID: 163987

## **Advising Theses**

ARIKAN M. A. S., Investigation of Damage in GFRP Tapered Composite Laminates, Doctorate, S.HOSSEINPOUR(Student), 2021

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

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

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

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

## **Published journal articles indexed by SCI, SSCI, and AHCI**

### **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 (SCI-Expanded)

### **II. Investigation on replication of microfluidic channels by hot embossing**

Cogun F., Yıldırım E., Arıkan M. A. S.

MATERIALS AND MANUFACTURING PROCESSES, vol.32, pp.1838-1844, 2017 (SCI-Expanded)

### **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 (SCI-Expanded)

### **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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)

## Articles Published in Other Journals

- I. MEMS Malzeme Karakterizasyonu için Bütünlesik 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 (Peer-Reviewed Journal)
- II. MEMS Malzeme Karakterizasyonu için Bütünleşik 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 (Non Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. An ultrasonic assisted method for fabricating metal layers on thermoplastic substrates for lab-on-a-chip  
FARAHANI S., GÜMÜŞTAŞ A., ÜLKÜ M. K., TAMER U., ARIKAN M. A. S., YILDIRIM E.  
Microfluidics 2022, Heidelberg, Germany, 11 July 2022, pp.58
- II. 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

**III. 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

**IV. 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

**V. 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

## Metrics

Publication: 19

Citation (WoS): 159

Citation (Scopus): 195

H-Index (WoS): 7

H-Index (Scopus): 8

## Non Academic Experience

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