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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. **Utilization of cross-correlation function for assessment of replication quality in ultrasonic embossing of microchannels on polymethyl methacrylate**
Yildirim E., Ulku M. K., Arıkan M. A. S.
Polymer Engineering and Science, 2024 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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)

- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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 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 (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: 20

Citation (WoS): 159

Citation (Scopus): 195

H-Index (WoS): 7

H-Index (Scopus): 8

Non Academic Experience

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