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Publons / Web Of Science ResearcherID: AAI-8193-2021

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Research Areas

Engineering and Technology

Advising Theses

KARADERE G., Investigation of catalytic converter reaction processes in the exhaust system in hybrid automobiles, Postgraduate, M.Nergiz(Student), 2020

KARADERE G., Theoretical investigation of elastohydrodynamic film thickness in cylindrical roller bearings, Postgraduate, H.Aksu(Student), 2019

KARADERE G., Adaptive robotic arc welding methods in manufacturing industry: Experimental studies on robotic seam detection and tracking, Postgraduate, M.YUVALAKLIOĞLU(Student), 2018

KARADERE G., Investigation of the effect of profile shifting in helical gear mechanisms with analytical and numerical methods, Postgraduate, İ.YILMAZ(Student), 2013

KARADERE G., The effects of designing parameters on performance in helical gearwheel mechanisms, Postgraduate, F.S. (Student), 2010

KARADERE G., Formability of automotive body parts with light metal alloys, Postgraduate, E.AYBARAZ(Student), 2010

KARADERE G., Comparison of tribological properties of deep groove ball bearings which has rolling pairs made of different materials, Postgraduate, N.ENES(Student), 2005

KARADERE G., Investigation of stress distribution in a axially loaded plate including a hole with corrugation, Postgraduate, S.AYZİT(Student), 2003

KARADERE G., The tribological characteristics of the bearings, Postgraduate, C.TOSUN(Student), 2002

KARADERE G., Endurance strength diagrams, Postgraduate, E.AKAR(Student), 2002

KARADERE G., Effects of surface roughness on lubrication, Postgraduate, O.Sevimli(Student), 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Numerical Analysis of Hybrid Spur Gears with Asymmetric Teeth: Stress and Dynamic Behavior**
YILMAZ T. G., KARADERE G., KARPAT F.
MACHINES, vol.10, no.11, 2022 (SCI-Expanded)
- II. **Light-weight design of automobile suspension components using topology and shape optimization techniques**
KARADERE G., Duzcan Y., YILDIZ A. R.
MATERIALS TESTING, vol.62, no.5, pp.454-458, 2020 (SCI-Expanded)

- III. **Transient phenomena during engagement phase of a clutch**
KARADERE G., KOPMAZ O., GULLU E.
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.39, pp.225-239, 2010 (SCI-Expanded)
- IV. **A new approach to the kinematical analysis of universal joints**
KARADERE G., KOPMAZ O., GULLU E.
INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, vol.39, pp.317-329, 2010 (SCI-Expanded)
- V. **The effects of the total bearing deformation on the performance of hydrodynamic thrust bearings**
Karadere G.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.62, no.4, pp.207-213, 2010 (SCI-Expanded)
- VI. **Analytical solution of direct dynamics problem in cylindrical coordinates**
Pala Y., Guney I., Karadere G.
JOURNAL OF ENGINEERING MECHANICS-ASCE, vol.130, no.9, pp.1115-1117, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Dengeli Gerilmeye Sahip Dişli Çark Çiftleri Üzerine Nümerik bir Araştırma**
YILMAZ T. G., KARADERE G., KARPAT F.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.28, no.1, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Hibrit Dişlilerde Süren Taraf Kavrama açısının Tek Diş Rijitliğine Etkilerinin İncelenmesi**
YILMAZ T. G., KARADERE G., KARPAT F.
2nd International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 15 October 2022
- II. **Süren taraf kavrama açısının hibrit dişlilerin oluşan gerilmelere etkileri**
YILMAZ T. G., KARADERE G., KARPAT F.
International Conference on Global Practice of Multidisciplinary Scientific Studies, TİFLİS, Georgia, 24 June 2022

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H-Index (Scopus): 2