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International Researcher IDs

ORCID: 0000-0001-6665-4507

Publons / Web Of Science ResearcherID: W-5683-2018

ScopusID: 8611251700

Yoksis Researcher ID: 112492

Education Information

Doctorate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü,
Turkey 1999 - 2008

Postgraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği
Bölümü, Turkey 1996 - 1998

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği
Bölümü, Turkey 1992 - 1996

Biography

Experienced Lecturer and researcher with a demonstrated history of working in the higher education. Skilled in simulation of combustion and emissions of ICE and experienced in ICE research, design of engine test room, data acquisition from single cylinder research engine, emission measurement, engine tests and automotive type approval tests. Research, development and lecture on Internal Combustion Engines (ICE), Combustion, Combustion Modeling, Alternative Fuels for ICE, Computer Aided Simulation in Automotive Engineering and Solar Vehicles.

Foreign Languages

English

Dissertations

Doctorate, CFD modeling of emissions formation and reduction in heavy duty diesel engines, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2008

Postgraduate, Deney motoru veri toplama ve analiz sistemi tasarımı, Istanbul Technical University, Fen Bilimleri Enstitüsü, 1999

Research Areas

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Solar energy, Machine Theory and Dynamics, Vehicle Systems Dynamics, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Computational fluid dynamics, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Prediction of oil dilution formation rate due to post injections in diesel engines by using Gaussian process**
Gonul M., Kutlar O. A., Çalık A. T., Parlak F. O.
FUEL, vol.305, 2021 (SCI-Expanded)
- II. **Comparison of flow field and combustion in single and double side ported rotary engine**
Taskiran O. O., Çalık A. T., Kutlar O. A.
FUEL, vol.254, 2019 (SCI-Expanded)
- III. **Numerical investigation of twin swirl application in diesel engine combustion**
Çalık A. T., Taskiran O. O., Mehdiyev R.
FUEL, vol.224, pp.101-110, 2018 (SCI-Expanded)
- IV. **Numerical investigations on feasibility of Quasi "MR-Process" for 2-valve diesel engines**
Çalık A. T., Taskiran O. O., Mehdiyev R.
FUEL, vol.221, pp.425-439, 2018 (SCI-Expanded)
- V. **Skip cycle system for spark ignition engines: An experimental investigation of a new type working strategy**
Kutlar O. A., ARSLAN H., CALIK A. T.
ENERGY CONVERSION AND MANAGEMENT, vol.48, no.2, pp.370-379, 2007 (SCI-Expanded)
- VI. **Methods to improve efficiency of four stroke, spark ignition engines at part load**
Kutlar O. A., Arslan H., CALIK A. T.
ENERGY CONVERSION AND MANAGEMENT, vol.46, no.20, pp.3202-3220, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Motorlu Taşıtlardan Kaynaklanan Hava Kirliliği**
KUTLAR O. A., ARSLAN H., ÇALIK A. T.
Meteoroloji Mühendisliği, no.1, pp.19-25, 2000 (Peer-Reviewed Journal)
- II. **Benzin Otto Motorunda Kısmi Yükte Yakıt Tüketimini Azaltmaya Yönelik Bir Yöntem Fakir Karışımli Kademeli Dolgulu Motor**
KUTLAR O. A., ARSLAN H., ÇALIK A. T.
Mühendis ve Makina, vol.41, no.483, pp.46-51, 2000 (Peer-Reviewed Journal)

Supported Projects

Çalık A. T., Project Supported by Higher Education Institutions, Investigation Of The Effect Of Boost Pressure And Exhaust Gas Recirculation Rate On Nitrogen Oxide And Particulate Matter Emissions And Engines, 2013 - 2018

Metrics

Publication: 32
Citation (WoS): 80
Citation (Scopus): 140
H-Index (WoS): 3
H-Index (Scopus): 4

Non Academic Experience

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