

Res. Asst. SERDAR HALİS

Personal Information

Office Phone: [+90 312 202 8645](tel:+903122028645)

Email: serdarhalis@gazi.edu.tr

Other Email: serdarhalis@hotmail.com

Web: <https://avesis.gazi.edu.tr/serdarhalis>

International Researcher IDs

ScholarID: WuwYNNkAAAAJ

ORCID: 0000-0002-6099-7223

ScopusID: 57193699005

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Automotive Engineering, Turkey 2016 - Continues

Postgraduate, Pamukkale University, Institute Of Science, Automotive Engineering, Turkey 2014 - 2016

Undergraduate, Ege University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 2010 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, BİR MOTORUN RCCI YANMA MODUNDA ÇALIŞTIRILMASI VE İŞLETME PARAMETRELERİNİN BELİRLENMESİ, Gazi University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği , 2021

Research Areas

Fuels and Combustion, Internal Combustion Engines, Computational fluid dynamics

Academic Titles / Tasks

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği , 2016 - Continues

Research Assistant, Pamukkale University, Faculty Of Technology, Department Of Automotive Engineering, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Predictive modelling and optimization of performance and emissions of an auto-ignited heavy naphtha/n-heptane fueled HCCI engine using RSM**
Kocakulak T., HALİS S., Ardebili S. M. S., Babagiray M., Haşimoğlu C., Rabeti M., CALAM A.

- FUEL, vol.333, 2023 (SCI-Expanded)
- II. **Testing sodium borohydride as a fuel additive in internal combustion gasoline engine**
Yakın A., BEHÇET R., SOLMAZ H., HALİS S.
ENERGY, vol.254, 2022 (SCI-Expanded)
 - III. **Operating range, combustion, performance and emissions of an HCCI engine fueled with naphtha**
Celebi S., Hasimoglu C., Uyumaz A., HALİS S., CALAM A., SOLMAZ H., Yilmaz E.
FUEL, vol.283, 2021 (SCI-Expanded)
 - IV. **The comparison of combustion, engine performance and emission characteristics of ethanol, methanol, fusel oil, butanol, isopropanol and naphtha with n-heptane blends on HCCI engine**
CALAM A., AYDOĞAN B., HALİS S.
FUEL, vol.266, 2020 (SCI-Expanded)
 - V. **Thermodynamic, dynamic and flow friction analysis of a Stirling engine with Scotch yoke piston driving mechanism**
KARABULUT H., OKUR M., HALİS S., ALTIN M.
ENERGY, vol.168, pp.169-181, 2019 (SCI-Expanded)
 - VI. **Thermodynamic and dynamic analysis of an alpha type Stirling engine with Scotch Yoke mechanism**
ALTIN M., OKUR M., İPCİ D., HALİS S., KARABULUT H.
ENERGY, vol.148, pp.855-865, 2018 (SCI-Expanded)
 - VII. **INVESTIGATION OF THE EFFECTS OF OCTANE NUMBER ON COMBUSTION CHARACTERISTICS AND ENGINE PERFORMANCE IN A HCCI ENGINE**
HALİS S., NACAĞ Ç., SOLMAZ H., YILMAZ E., YÜCESU H. S.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.99-110, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Etil Alkol Yakıtlı HCCI Motorun Performans, Yanma ve Emisyon Özelliklerinin Deneysel Olarak İncelenmesi**
CALAM A., HALİS S.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.221-234, 2020 (Peer-Reviewed Journal)
- II. **Investigation of the effect of corrugated structure on crashing performance in thin-walled circular tubes**
ALTIN M., HALİS S., YÜCESU H. S.
International Journal of Automotive Science and Technology, vol.1, no.2, pp.1-7, 2017 (Peer-Reviewed Journal)
- III. **Investigation of mechanical properties of paper processing residue filled high density polyethylene (hdpe) composites**
Kucukdogan N., HALİS S., SÜTÇÜ M., SARIKANAT M., SEKİ Y., SEVER K.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.23, no.8, pp.949-953, 2017 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Elektronik Enjeksiyonlu Tek Silindirli Bir Dizel Motorun Performans ve Emisyon Karakteristiklerinin İncelenmesi**
Balaban F., YILDIRIM E., HALİS S., SOLMAZ H., ŞAHİN F., ALTIN M., YÜCESU H. S.
International Symposium on Automotive Science and Technology, Ankara, Turkey, 08 September 2021
- II. **Dizel Yakıt Basıncı Kontrolü için PID ve Bulanık Mantık Denetleyici Tasarımı**
YILDIRIM E., ŞAHİN F., HALİS S., BALABAN F., ALTIN M., SOLMAZ H., YÜCESU H. S.
International Symposium on Automotive Science and Technology, Ankara, Turkey, 08 September 2021

Supported Projects

Yücesu H. S., Altın M., Şahin F., TÜBİTAK Project, Sıkıştırma ile ateşlemeli bir motorun reaktif kontrollü sıkıştırma ile ateşlemeli (RCCI) motora dönüştürülmesi ve RCCI yanmasının optimizasyonu, 2019 - 2022

Metrics

Publication: 12

Citation (WoS): 173

Citation (Scopus): 221

H-Index (WoS): 6

H-Index (Scopus): 7

Scholarships

TÜBİTAK 1001-Doktora Bursu, TÜBİTAK, 2020 - Continues

TÜBİTAK 2211-Yurtiçi Doktora Burs Programı, TÜBİTAK, 2016 - 2019