

## Res. Asst. SERDAR HALİS

### Personal Information

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### 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

- I. **Testing sodium borohydride as a fuel additive in internal combustion gasoline engine**  
Yakın A., BEHÇET R., SOLMAZ H., HALİS S.  
ENERGY, vol.254, 2022 (Journal Indexed in SCI)
- II. **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., Yılmaz E.  
FUEL, vol.283, 2021 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)

**IV. 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 (Journal Indexed in SCI)

**V. 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 (Journal Indexed in SCI)

**VI. 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

(Journal Indexed in SCI)

## 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 (Refereed Journals of Other Institutions)

**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 (Refereed Journals of Other Institutions)

**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 (Journal Indexed in 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., TUBİTAK Project, Sıkıştırma ile ateşlemeli bir motorun reaktif kontrollü sıkıştırma ile ateşlemeli (RCCI) motora dönüştürülmesi ve RCCI yanmasının optimizasyonu, 2019 - 2022

## **Citations**

Total Citations (WOS):105

h-index (WOS):5

## **Scholarships**

TÜBİTAK 1001-Doktora Bursu, TÜBİTAK, 2020 - Continues

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