



Personal Information

Office Phone: [+90 262 303 2324](tel:+902623032324)

Email: volkan.aygul@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/volkan.aygul>

Education Information

Doctorate, Kocaeli University, Teknoloji Fakültesi, Otomotiv Mühendisliği Bölümü, Turkey 2014 - Continues

Postgraduate, Kocaeli University, Teknoloji Fakültesi, Otomotiv Mühendisliği Bölümü, Turkey 2012 - Continues

Postgraduate, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, Turkey 2011 - Continues

Dissertations

Postgraduate, TEK SİLİNDİRLİ İÇTEN YANMALI BİR MOTORDA ELEKTROMEKANİK SUPAP KONTROL MEKANİZMASININ TASARLANMASI, Kocaeli Üniversitesi, Teknoloji Fakültesi, Otomotiv Mühendisliği Bölümü, 2014

Research Areas

Electrical and Electronics Engineering, Mechanical Engineering

Academic Titles / Tasks

Research Assistant, Kocaeli University, Teknoloji Fakültesi, Otomotiv Mühendisliği, 2012 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Modelling and analysis of spring return electromagnetic valve actuator for SI engine**
AYGÜL V., AYAZ M., ÖZSEZEN A. N.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.81, pp.1-18, 2019 (SCI-Expanded)
- II. **Comprehensive study on automation of toxic gas measurement**
AYAZ M., Tasdemirci E., YUKSEL H., AYGÜL V.
ARABIAN JOURNAL OF GEOSCIENCES, vol.11, no.22, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Digital transformation for improved energy and product efficiency in tire production: a case study**
Temel A., Ayaz M., Aygül V.
Engineering Research Express, vol.5, no.4, pp.1-15, 2023 (ESCI)
- II. **Buji Ateşlemeli Tek Silindirli Motorda Elektromekanik Supap Mekanizmasının Kullanılmasının Hava**

Akış Parametrelerine Etkisinin HAD Yöntemi İle İncelenmesi

Demir Ü., Coşkun G., Soyhan H. S., Aygül V., Türkcan A., Alptekin E., Çanakçı M.

Mühendislikte Yakıtlar, Yangın ve Yanma Dergisi, vol.8, pp.20-27, 2020 (Peer-Reviewed Journal)

III. Comparative Study on Control Methods for Air Conditioning of Industrial Paint Booths

Ayaz M., Aygül V., Düzenli F., Taşdemirci E.

Advanced Science, Engineering and Medicine, vol.11, no.11, pp.1053-1059, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Modeling of An Electromagnetic Valve Actuator for Gasoline Engines Based on FEM Analysis**
AYGÜL V., AYAZ M., ÖZSEZEN A. N.
4. International Congress on Mathematics, Engineering, Natural and Health Sciences (EJONS, 2018), KIEV, Ukraine, 11 - 13 August 2018, pp.227-234
- II. The Effect of Electromechanical Valve System on the Volumetric Efficiency of a Single Cylinder Gasoline Engine**
AYGÜL V., ÖZSEZEN A. N., ALPTEKİN E., TÜRKCAN A., ÇANAKCI M.
6th European Conference on Renewable Energy Systems (ECRES 18), İstanbul, Turkey, 25 - 27 June 2018, vol.1, pp.344-350
- III. Examining of the Relationship Between Cylinder Pressure and Block Vibration in a Diesel Engine with Fuelled Alternative Fuels**
YILDIRIM H., ÇINAR A., ÖZSEZEN A. N., AYGÜL V.
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 22 October 2017, pp.3310-3317
- IV. Design and Implementation of an Electromagnetic Valve Actuator for IC Engines**
AYGÜL V., AYAZ M., ÖZSEZEN A. N.
2nd International Conference on Computer Science, Engineering and Applied Science (ICCSEAS 2017), Paris, France, 28 - 29 November 2017
- V. Modelling of the Effect of Electromechanic Valve Mechanism on Air Flow Parameters in a Spark Ignition Engine**
DEMİR U., AYGÜL V., COŞKUN G., SOYHAN H. S., TÜRKCAN A., ALPTEKİN E., ÇANAKCI M.
International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 21 October 2017, vol.1, pp.3452
- VI. Experimental Investigation of Valve Control in a Spark Ignition Engine with Electromechanical Valve Mechanism Technique**
AYGÜL V., ÖZSEZEN A. N., TÜRKCAN A., ALPTEKİN E.
8th International Advanced Technologies Symposium, IATS17, 19 - 22 October 2017, vol.1, pp.189-196
- VII. Comparative Study on Control Methods for Air Conditioning of Industrial Paint Booths**
AYAZ M., AYGÜL V., DÜZENLİ F., TAŞDEMİRCİ E.
International Conference on Computational and Experimental Science and Engineering (ICCESSEN 2017), 4 - 08 October 2017, vol.1, pp.460
- VIII. Comprehensive Study on Automation of Toxic Gas Measurement**
Ayaz M., Taşdemirci E., Yüksel H., Aygül V.
International Conference on Computational and Experimental Science and Engineering (ICCESSEN 2017), Antalya, Turkey, 4 - 08 October 2017, vol.1, pp.461
- IX. Tek Silindirli Buji Ateşlemeli Bir Motor İçin Hava Akış Parametrelerinin İncelenmesi**
DEMİR U., AYGÜL V., COŞKUN G., SOYHAN H. S., TÜRKCAN A., ALPTEKİN E., ÇANAKCI M.
5th International Symposium on Innovative Technologies in Engineering and Science (ISITES 2017), Baku, Azerbaijan, 29 - 30 September 2017, vol.1, pp.1520-1529
- X. Tek Silindirli Buji Ateşlemeli Bir İçten Yanmalı Motorda Elektromekanik Supap Mekanizması ile Emme Supabı Açılma Zamanının Denetlenmesi**
AYGÜL V., ÖZSEZEN A. N., TÜRKCAN A.
Ulusal Otomatik Kontrol Konferansı (TOK 2014), Turkey, 11 - 13 September 2014, vol.1, pp.350-354

Supported Projects

ÖZSEZEN A. N., AYGÜL V., Project Supported by Higher Education Institutions, BUJİ ATEŞLEMELİ BİR MOTORDA ELEKTROMEKANİK SUPAP KONTROLÜ İLE SAĞLANAN MİLLER ÇEVİRİMİNİN YANMA PARAMETRELERİ ÜZERİNE ETKİSİNİN İNCELENMESİ, 2018 - Continues

ALPTEKİN E., TÜRKCAN A., TUBITAK Project, Tek Silindirli Buji Ateşlemeli Bir Motorda Elektromekanik Değişken Supap Zamanlamasının Hava Akış Parametrelerine Etkisinin Deneysel Ve Teorik Olarak İncelenmesi, 2014 - Continues

ÇANAKCI M., SOYHAN H. S., ALPTEKİN E., TÜRKCAN A., TUBITAK Project, Buji Ateşlemeli Tek Silindirli Bir Motorda Elektromekanik Değişken Supap Zamanlamasının Hava Akış Parametrelerine Etkisinin Deneysel ve Teorik Olarak İncelenmesi, 2014 - 2018

Metrics

Publication: 15

Citation (WoS): 3

Citation (Scopus): 5

H-Index (WoS): 1

H-Index (Scopus): 2