

## Assoc. Prof. Levent YÜKSEK

### Personal Information

Office Phone: [+90 212 383 2899](tel:+902123832899)

Web: <https://avesis.yildiz.edu.tr/lyukse>



### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey 2007 - 2013

Post Graduate, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği, Turkey 2005 - 2007

Under Graduate, Pamukkale Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1999 - 2005

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Mechanical Engineering, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü, 2014 - 2018

Research Assistant PhD, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü, 2013 - 2014

Research Assistant, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü, 2005 - 2013

### Courses

Spark Ignition Engines, Under Graduate, 2015 - 2016

### Advising Theses

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Quantitative comparison of tribological performance of chromium- and zinc-phosphate-coated piston rings in tribotest rig**  
Ozkan D., Kaleli H., Yuksek L.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.231, pp.75-92, 2017 (Journal Indexed in SCI)
- II. **MODELLING ANALYSIS OF MULTIPLE DIESEL INJECTION STRATEGIES WITH ONE-DIMENSIONAL SIMULATION COUPLED WITH ARTIFICIAL NEURAL NETWORKS**  
ÖZENER O., ÖZKAN M., YÜKSEK L.  
THERMAL SCIENCE, vol.21, pp.413-425, 2017 (Journal Indexed in SCI)
- III. **Effect of hydrogen-diesel dual-fuel usage on performance, emissions and diesel combustion in diesel engines**  
Karagoz Y., SANDALCI T., YÜKSEK L., DALKILIÇ A. S. , WONGWISES S.  
ADVANCES IN MECHANICAL ENGINEERING, vol.8, 2016 (Journal Indexed in SCI)
- IV. **Effects of hydrogen and methane addition on combustion characteristics, emissions, and performance of a CI engine**  
Karagoz Y., GULER I., SANDALCI T., YÜKSEK L., DALKILIÇ A. S. , WONGWISES S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, pp.1313-1325, 2016 (Journal Indexed in SCI)
- V. **Effect of hydrogen enrichment on combustion characteristics, emissions and performance of a diesel engine**  
Karagoz Y., GÜLER I., SANDALCI T., YÜKSEK L., DALKILIÇ A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, pp.656-665, 2016 (Journal Indexed in SCI)
- VI. **Optimization of the oil drain interval of non-phosphorus and non-ash engine oil**  
YÜKSEK L.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.68, pp.497-507, 2016 (Journal Indexed in SCI)
- VII. **Engine performance and emission effects of diesel burns enriched by hydrogen on different engine loads**  
Karagoz Y., SANDALCI T., YÜKSEK L., DALKILIÇ A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, pp.6702-6713, 2015 (Journal Indexed in SCI)
- VIII. **EFFECT OF HYDROGEN ADDITION ON EXHAUST EMISSIONS AND PERFORMANCE OF A SPARK IGNITION ENGINE**  
Karagoz Y., Orak E., YÜKSEK L., SANDALCI T.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.14, pp.665-672, 2015 (Journal Indexed in SCI)
- IX. **An experimental investigation on the performance characteristics of a hydroxygen enriched gasoline engine with water injection**  
Karagoz Y., YÜKSEK L., SANDALCI T., DALKILIÇ A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, pp.692-702, 2015 (Journal Indexed in SCI)
- X. **Surface and wear mechanisms analysis of phosphorous-free and conventional engine lubricants on cylinder liner and piston rings surfaces**  
OZKAN D., Kaleli H., BERTHIER Y., YÜKSEK L.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.67, pp.441-448, 2015 (Journal Indexed in SCI)
- XI. **MODELLING THE EFFECT OF INJECTION PRESSURE ON HEAT RELEASE PARAMETERS AND NITROGEN OXIDES IN DIRECT INJECTION DIESEL ENGINES**  
YÜKSEK L., SANDALCI T., ÖZENER O., ERGENÇ A. T.  
THERMAL SCIENCE, vol.18, pp.155-168, 2014 (Journal Indexed in SCI)

- XII. **ANALYSIS OF THE SURFACE LAYER FORMATION OF SINGLE-CYLINDER ENGINE COMBUSTION CHAMBER WITH PHOSPHOROUS-FREE AND CONVENTIONAL ENGINE LUBRICANTS**  
YÜKSEK L., Kaleli H., ÖZKAN D. B.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.20, pp.116-123, 2014 (Journal Indexed in SCI)
- XIII. **Effects of soybean biodiesel on a DI diesel engine performance, emission and combustion characteristics**  
Özener O., Yüksek L., Ergenç A. T., Özkan M.  
FUEL, vol.115, pp.875-883, 2014 (Journal Indexed in SCI)
- XIV. **An Experimental Investigation of Ethanol-Diesel Blends on Performance and Exhaust Emissions of Diesel Engines**  
SANDALCI T., Karagoz Y., Orak E., YÜKSEK L.  
ADVANCES IN MECHANICAL ENGINEERING, 2014 (Journal Indexed in SCI)
- XV. **ARTIFICIAL NEURAL NETWORK APPROACH TO PREDICTING ENGINE-OUT EMISSIONS AND PERFORMANCE PARAMETERS OF A TURBO CHARGED DIESEL ENGINE**  
ÖZENER O., YÜKSEK L., ÖZKAN M.  
THERMAL SCIENCE, vol.17, pp.153-166, 2013 (Journal Indexed in SCI)
- XVI. **Cycle-skipping strategies for pumping loss reduction in spark ignition engines: An experimental approach**  
YÜKSEK L., ÖZENER O., SANDALCI T.  
ENERGY CONVERSION AND MANAGEMENT, vol.64, pp.320-327, 2012 (Journal Indexed in SCI)
- XVII. **CONDITION OF MONITORING PHOSPHOROUS-CONTAINING AND NPNA ENGINE OILS AND THEIR EFFECT ON THREE-WAY CATALYST**  
Kaleli H., YÜKSEK L., HACIKADIROGLU H.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.18, pp.474-484, 2012 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Atık yağ biyodizelinin farklı sıkıştırma oranlarındaki dizel motorlarda kullanımının uygunluğunun araştırılması.**  
Yüksek L., Özener O., Kızılkcan V., Arslan H. E.  
DÜMF Mühendislik Dergisi, vol.9, pp.765-774, 2018 (Refereed Journals of Other Institutions)
- II. **COMPUTATIONAL FLUID DYNAMICS ANALYSIS OF FLOW AND COMBUSTION OF A DIESEL ENGINE**  
ABAY K., Çolak Ü., YÜKSEK L.  
JOURNAL OF THERMAL ENGINEERING, vol.4, pp.1879-1895, 2018 (Journal Indexed in ESCI)
- III. **An Experimental NO<sub>x</sub> Reduction Potential Investigation Of The Partial HCCI Application, On A High Pressure Fuel Injection Equipped Diesel Engine By Implementing Fumigation Of Gasoline Port Injection**  
Ergenç A. T., Yüksek L., Özener O., Işın Ö.  
International Journal of Fuels, Fire and Combustion in Engineering (FCE), vol.1, pp.12-15, 2016 (International Refereed University Journal)
- IV. **Determination of Optimum Compression Ratio: A Tribological Aspect**  
YÜKSEK L., ÖZENER O., KALELİ H.  
Tribology in Industry, vol.35, pp.270-275, 2013 (Refereed Journals of Other Institutions)
- V. **Performance, emission, and heat release analyses of a direct injection diesel engine running on diesel and soybean ester blends**  
ERGENÇ A. T., YÜKSEK L., ÖZENER O.  
Turkish Journal of Engineering and Environmental Sciences, vol.37, pp.23-32, 2013 (Refereed Journals of Other Institutions)
- VI. **EMISSION AND PERFORMANCE INVESTIGATION of RAPESEED METHYL ESTER AND DIESEL FUEL**  
ERGENÇ A. T., ÖZENER O., YÜKSEK L., ONUR A.

International Virtual Journal for Science, Technics Inovations for The Indusrty Machines Technologies Materials, pp.22-25, 2010 (Refereed Journals of Other Institutions)

- VII. **The Effect and Comparison of Biodiesel Diesel Fuel on Crankcase Oil Diesel Engine Performance**  
Yüksek L., Özener O., Berk Ö., Kaleli E. H.  
FME TRANSACTIONS, vol.37, pp.91-97, 2009 (Refereed Journals of Other Institutions)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **VEHICLE INTERIOR TRIM NVH PART WEIGHT OPTIMIZATION WITH ALTERNATIVE MATERIAL**  
Gedik O., YÜKSEK L., Avşar İ., Özdemir Ö.  
FIFTH INTERNATIONAL CONFERENCE ON ADVANCES INMECHANICAL ENGINEERING: ICAME 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.1774-1782
- II. **Tek Silindirli Dizel Motorun Yağ Değişim Periyodunun Analizi**  
BAYKO Ö., KÜÇÜKYILDIRIM B. O. , YÜKSEK L.  
Ereğli International Science and Academic Congress (insac Ereğli), 9 - 10 March 2019, pp.169-176
- III. **The friction and wear characteristics of graphene coating by the CVD process on piston rings under tribo and engine testing conditions.**  
KALELİ E. H. , YÜKSEK L., Çıtak E.  
The 6th World Tribology Congress, Pekin, China, 17 September 2017, pp.1
- IV. **MODELING AND ANALYZING OF DIESEL ENGINE USING COMPUTATIONAL FLUID DYNAMICS**  
ABAY K., ÇOLAK Ü., YÜKSEK L., KARAGÖZ Y.  
1th INTERNATIONAL CONFERENCE ON ADVANCES INAUTOMOTIVE TECHNOLOGIES, İstanbul, Turkey, 11 - 14 October 2016, vol.1, pp.300-313
- V. **Tribological Behaviorof Uncoated and Graphene Graphite Coated Piston Rings atNano and Macro Scale**  
ÖZKAN D., KALELİ E. H. , YÜKSEK L., YAĞCI M. B. , Özgür B.  
WE-Heraeus-Seminer on Mechanisms of Tribology, Bonn, Germany, 29 March - 01 April 2016
- VI. **EFFECT OF FUEL TEMPERATURE ON PERFORMANCE AND EMISSIONS OF ACOMPRESSION IGNITIONENGINE**  
Karagöz Y., Guler İ., Duymaz G., Yüksek L., Sandalcı T., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL, İstanbul, Turkey, 23 - 25 December 2015, pp.1-15
- VII. **TRIBOLOGICAL BEHAVIOUR OF CHROMIUM COATED AND UNCOATED PISTON RINGS SLIDING AGAINST CYLINDER LINERS**  
Sellami A., Kchaou M., Trabelsi M., Riadh R., Özkan D., KALELİ E. H. , YÜKSEK L., Yağcı M. B.  
ICAMEM 2015 Sixth International Conference on Advances in Mechanical Engineering and Mechanics, 20 - 22 December 2015
- VIII. **SURFACE ANALYSIS OF ZINC PHOSPHATE COATING AND ZNDTP CONTAINING COMMERCIAL LUBRICANT ON ENGINE OIL RING AND CYLINDER LINER**  
KALELİ E. H. , YÜKSEK L., ÖZKAN D.  
International Conference BULTRIB 2013 & CEEPUS Workshop 2013., 1 - 03 September 2013
- IX. **SURFACE ANALYSIS OF ZINC-PHOSPHATE COATING WITH ZNDTP CONTAINING COMMERCIAL LUBRICANT ON ENGINE OIL RING AND CYLINDER LINER**  
YÜKSEK L., ÖZKAN D.  
International Conference BULTRIB 2013 & CEEPUS Workshop 2013, 01 September 2013
- X. **Comparison of Adhesive Force of Additive's Layer on The Rubbed Surface Using Microscopic Methods**  
BERTHIER Y., ÖZKAN D., YÜKSEK L., SFARGHIU A. M.  
40th Leeds-Lyon Symposium on Tribology & Tribochemistry Forum 2013, 01 September 2013
- XI. **Analysis of the additive layer formation and evaluation of wear mechanisms of phosphorous-free**

**and conventional engine lubricants on the surface of cylinder liner and piston rings**

Kaleli H., Berthier Y., ÖZKAN D. B. , YÜKSEK L.

5th World Tribology Congress, WTC 2013, Torino, Italy, 8 - 13 September 2013, vol.4, pp.2780-2783

- XII. **CONDITION MONITORING OF PHOSPHORUS CONTAINING AND NPNA (NON-PHOSPHORUS & NON-ASH) ENGINE OILS AND THEIR EFFECT ON THREE-WAY CATALYST FOR TWO COMMERCIAL VEHICLES DURING OIL DRAIN PERIOD**  
YÜKSEK L., HACIKADİROĞLU H.  
DIAGNOSIS AND PREDICTION IN MECHANICAL ENGINEERING SYSTEMS DIPRE'12, 01 June 2012
- XIII. **Effects of soybean biodiesel on a diesel engine performance and combustion characteristics**  
ÖZENER O., YÜKSEK L., ERGENÇ A. T. , ÖZKAN M.  
12th International Combustion Symposium, Kocaeli, Turkey, 24 - 26 May 2012, pp.158-165
- XIV. **Injection Strategy Optimization with AVL Boost coupled with Artificial Neural Networks**  
ÖZENER O., ÖZKAN M., YÜKSEK L., YILMAZ H.  
01 May 2012, vol.1, pp.30-37
- XV. **AN EXPERIMENTAL NOX REDUCTION POTENTIAL INVESTIGATION OF THE PARTIAL HCCI APPLICATION ON A HIGH PRESSURE FUEL INJECTION EQUIPPED DIESEL ENGINE BY IMPLEMENTING FUMIGATION OF GASOLINE PORT INJECTION**  
ERGENÇ A. T. , YÜKSEK L., ÖZENER O.  
FUELS AND COMBUSTION IN ENGINES, 31 March 2008 - 01 April 2012
- XVI. **Comparison of Fuel Consumption and Emissions of an Urban Bus Fuelled with Diesel and Biodiesel**  
**Environmental Engineering and Management**  
ÖZKAN M., ÖZENER O., Özoğuz B., YÜKSEK L.  
ATINER 2009, 1 - 03 May 2009
- XVII. **Effect of Gasoline Toluene Blends On Engine Performance and Exhaust Emission**  
IŞIN Ö., ERGENÇ A. T. , YÜKSEK L.  
4. Otomotiv Teknolojileri Kongresi konferansı-OTEKON'08, Bursa, Turkey, 1 - 03 June 2008, pp.305-309
- XVIII. **Comparison of Fuel Consumption and Emissions of an Urban Bus Fuelled with Diesel and Biodiesel**  
ÖZKAN M., Özener O., Özoğuz B., Yüksek L.  
3rd International Symposium on Environment, 01 May 2008, vol.1, pp.49-67
- XIX. **An experimental performance and exhaust emission investigation of biodiesel on compression ignition engines with different compression ratios**  
YÜKSEK L., ÖZENER O., ARSLAN H. E. , KIZILKAN V.  
INTERNATIONAL CONFERENCE FUELS AND COMBUSTION IN ENGINES-FCE'07, 01 April 2008

## **Supported Projects**

YÜKSEK L., Project Supported by Higher Education Institutions, Biyodizel kullanımının dizel motorların ömrüne etkisinin deneysel araştırması, 2013 - 2019

YÜKSEK L., KALELİ E. H. , TUBITAK Project, İçten yanmalı motorlarda aşınma ve sürtünmenin azaltılması için segmanların yeni geliştirilmiş grafen kaplama yöntemi ile incelenmesi, 2015 - 2017

## **Scientific Refereeing**

Advances in Mechanical Engineering, SCI Journal, December 2017

Journal of Thermal Engineering, Other Indexed Journal, November 2017

Thermal Science, SCI Journal, September 2017

Applied Thermal Engineering, SCI Journal, August 2017

## Citations

Total Citations (WOS):460

h-index (WOS):8