

## Assoc. Prof. Levent YÜKSEK

### Personal Information

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### Education Information

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

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

Undergraduate, 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

Associate Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - Continues

Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - Continues

Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2014 - 2018

Research Assistant PhD, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2013 - 2014

Research Assistant, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2005 - 2013

### Courses

Spark Ignition Engines, Undergraduate, 2015 - 2016

### Advising Theses

YÜKSEK L., TAŞIT VİTES KUTULARINDAKİ ISI TRANSFERİNİN MATEMATİKSEL MODELLENMESİ, Postgraduate,

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

- I. **Numerical and experimental investigation of fuel consumption and CO<sub>2</sub> emission performance for a parallel hybrid vehicle**  
Balci Ö., Karagoz Y., Gezer O., Kale S., Koten H., Pusat S., Yuksek L.  
ALEXANDRIA ENGINEERING JOURNAL, vol.60, no.4, pp.3649-3667, 2021 (Journal Indexed in SCI)
- II. **Review of tribological behavior of graphene coatings on piston rings in engines**  
Karagoz Z. B. A. , Demirtaş S., Kaleli H., Yüksek L., Citak E.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.72, no.2, pp.243-254, 2020 (Journal Indexed in SCI)
- III. **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)
- IV. **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, no.1, pp.413-425, 2017 (Journal Indexed in SCI)
- V. **Effect of hydrogen-diesel dual-fuel usage on performance, emissions and diesel combustion in diesel engines**  
Karagoz Y., Sandalci T., Yüksek L., Dalkılıç A. S. , Wongwises S.  
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.8, 2016 (Journal Indexed in SCI)
- VI. **Effects of hydrogen and methane addition on combustion characteristics, emissions, and performance of a CI engine**  
Karagoz Y., Guler I., Sandalci T., Yüksek L., Dalkılıç A. S. , Wongwises S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.2, pp.1313-1325, 2016 (Journal Indexed in SCI)
- VII. **Effect of hydrogen enrichment on combustion characteristics, emissions and performance of a diesel engine**  
Karagoz Y., Güler I., Sandalci T., Yüksek L., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.1, pp.656-665, 2016 (Journal Indexed in SCI)
- VIII. **Optimization of the oil drain interval of non-phosphorus and non-ash engine oil**  
Yüksek L.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.68, no.4, pp.497-507, 2016 (Journal Indexed in SCI)
- IX. **Engine performance and emission effects of diesel burns enriched by hydrogen on different engine loads**  
Karagoz Y., Sandalci T., Yüksek L., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.20, pp.6702-6713, 2015 (Journal Indexed in SCI)
- X. **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, no.3, pp.665-672, 2015 (Journal Indexed in SCI)
- XI. **An experimental investigation on the performance characteristics of a hydroxygen enriched gasoline engine with water injection**  
Karagoz Y., Yüksek L., Sandalci T., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.1, pp.692-702, 2015 (Journal Indexed in SCI)
- XII. **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, no.5, pp.441-448, 2015 (Journal Indexed in SCI)
- XIII. **MODELLING THE EFFECT OF INJECTION PRESSURE ON HEAT RELEASE PARAMETERS AND NITROGEN OXIDES IN DIRECT INJECTION DIESEL ENGINES**  
Yüksek L., Sandalcı T., Özener O., Ergenç A. T.  
THERMAL SCIENCE, vol.18, no.1, pp.155-168, 2014 (Journal Indexed in SCI)
- XIV. **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.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.20, no.1, pp.116-123, 2014 (Journal Indexed in SCI)
- XV. **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)
- XVI. **An Experimental Investigation of Ethanol-Diesel Blends on Performance and Exhaust Emissions of Diesel Engines**  
Sandalcı T., Karagoz Y., Orak E., Yüksek L.  
ADVANCES IN MECHANICAL ENGINEERING, 2014 (Journal Indexed in SCI)
- XVII. **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, no.1, pp.153-166, 2013 (Journal Indexed in SCI)
- XVIII. **Cycle-skipping strategies for pumping loss reduction in spark ignition engines: An experimental approach**  
Yüksek L., Özener O., Sandalcı T.  
ENERGY CONVERSION AND MANAGEMENT, vol.64, pp.320-327, 2012 (Journal Indexed in SCI)
- XIX. **CONDITION OF MONITORING PHOSPHOROUS-CONTAINING AND NPNA ENGINE OILS AND THEIR EFFECT ON THREE-WAY CATALYST**  
Kaleli H., Yüksek L., Hacıkadıroglu H.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.18, no.3, 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., Kızılkın V., Arslan H. E.  
DÜMF Mühendislik Dergisi, vol.9, no.2, pp.765-774, 2018 (International Refereed University Journal)
- 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, no.2, 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, no.2, pp.12-15, 2016 (Refereed Journals of Other Institutions)
- IV. **Determination of Optimum Compression Ratio: A Tribological Aspect**  
Yüksek L., Özener O., Kaleli H.  
Tribology in Industry, vol.35, no.4, 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, no.1, 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, vol.10, 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, no.2, 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):507

h-index (WOS):8