

## Prof. Emrullah Hakan KALELİ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-7586-918X

Yoksis Researcher ID: 12198



### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Makine, Turkey 1989 - 1995

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Makine, Turkey 1987 - 1989

### Foreign Languages

English, C2 Mastery

### Research Areas

Mechanical Engineering, Metallurgical and Materials Engineering, Material science and engineering, Material Characterization, Nanomaterials, Engineering and Technology

### Courses

Diesel Motor Teknolojisi, Undergraduate, 2021 - 2022

Tribolojinin Prensipleri Ve Uygulamaları, Undergraduate, 2020 - 2021

İÇTEN YANMALI MOTORLARDA AŞINMA, YAĞLAMA VE YAĞ ANALİZ TEKNİKLERİ, Doctorate, 2019 - 2020

Otto Motor Teknolojisi, Undergraduate, 2019 - 2020

Motorlarda Aşınma, Yağlama Ve Soğutma, Undergraduate, 2019 - 2020

Triboloji, Postgraduate, 2007 - 2008

### Published journal articles indexed by SCI, SSCI, and AHCI

1. Investigation of the influence of Fe<sub>2</sub>B layer thickness on the enhancement of tribological behavior of borided EN-GJL-250 cast iron: a comprehensive investigation under optimized lubrication  
Charmati D., Tili S., Touhami M., Bourebia M., KALELİ E. H.  
International Journal of Advanced Manufacturing Technology, vol.129, no.9-10, pp.4605-4615, 2023 (SCI-Expanded)

- II. **Mechanical properties and bio-tribological performance of PVD (Ta/ ZrN)<sub>n</sub> multilayer coatings on UHMWPE in bovine serum lubrication**  
Ramoul C. E., Nouveau C., Beliardouh N. E., Kaleli E. H., Ali Ourdjini A., Ghelloudj O., Demirtaş S., Gharbı A., Bouzid K.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.1, no.22, pp.1-12, 2022 (SCI-Expanded)
- III. **Synthesis and Tribocorrosion Performances of Multilayer (Ta/ZrN)<sub>n</sub> Coatings**  
Beliardouh N. E., Ramoul C. E., Nouveau C., Kaleli E. H., Montagne A.  
Thin Solid Films, vol.0040609022001043, no.22, pp.1-36, 2022 (SCI-Expanded)
- IV. **Tribological and Antibacterial Properties of Polyetheretherketone Composites with Black Phosphorus Nanosheets**  
Xuhui S., Chengcheng Y., Lin Z., Jingcao C., Kaleli E. H., Guoxin X.  
Polymers, vol.14, no.1242, pp.1-13, 2022 (SCI-Expanded)
- V. **Tribological Performance Investigation of a Commercial Engine Oil Incorporating Reduced Graphene Oxide as Additive**  
Kaleli H., DEMİRTAŞ S., Uysal V., Karnis I., Stylianakis M. M., Anastasiadis S. H., Kim D.  
NANOMATERIALS, vol.11, no.2, 2021 (SCI-Expanded)
- VI. **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 (SCI-Expanded)
- VII. **Modeling and theoretical analysis of a novel ratcheting-type cam-based infinitely variable transmission system**  
Al-Hamood A., Jamalia H., Imran A., Abdullah O., Senatore A., Kaleli H.  
COMPOTES RENDUS MECANIQUE, vol.347, no.12, pp.891-902, 2019 (SCI-Expanded)
- VIII. **Characterization of the friction and wear effects of graphene nanoparticles in oil on the ring/cylinder liner of internal combustion engine**  
DEMİRTAŞ S., Kaleli H., Khadem M., Kim D.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.71, no.5, pp.642-652, 2019 (SCI-Expanded)
- IX. **Tribotest of engine piston ring/cylinder liner pairs with different nanoparticles added into engine oil**  
DEMİRTAŞ S., KALELİ E. H., Khadem M., Kim D.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.72, no.2, pp.217-231, 2018 (SCI-Expanded)
- X. **Thermal stress analysis of dry friction clutches**  
Abdullah O. I., Schlattmann J., Jobair H., Beliardouh N. E., Kaleli H.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.72, no.2, pp.189-194, 2018 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **HISTORY OF OIL ADDITIVES FROM MACRO TO NANO SURFACE TRIBOLOGY IN TRIBOTEST RIGS AND INTERNAL COMBUSTION ENGINES**  
KALELİ E. H.  
Journal of the Balkan Tribological Association, vol.21, no.3, 2015 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)
- XIV. **Surface and Wear Analysis of Zinc Phosphate Coated Engine Oil Ring and Cylinder Liner Tested with Commercial Lubricant**  
Özkan D., Kaleli H.  
ADVANCES IN MECHANICAL ENGINEERING, 2014 (SCI-Expanded)

- XV. **WEAR PERFORMANCE OF DUPLEX TREATED LOW ALLOYED STEEL AGAINST WOOD (BEECH) AS STATIC PARTNER**  
Beliardouh N. E., nouveau c., KALELİ E. H.  
Journal Of The Balkan Tribological Association, vol.20, no.1, pp.84-82, 2014 (SCI-Expanded)
- XVI. **EFFECT OF LOAD, ROTATION SPEED AND SLIP RATIO ON THE WEAR BEHAVIOUR OF PVD-COATED HOTVAR STEEL UNDER LUBRICATING CONDITIONS**  
GERÇEKÇİOĞLU E., Dagasan E., Kaleli H., Tugral F. A.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.18, no.1, pp.69-79, 2012 (SCI-Expanded)
- XVII. **CONDITION OF MONITORING PHOSPHOROUS-CONTAINING AND NPNA ENGINE OILS AND THEIR EFFECT ON THREE-WAY CATALYST**  
Kaleli H., Yüksek L., Hacıkadıroğlu H.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.18, no.3, pp.474-484, 2012 (SCI-Expanded)
- XVIII. **EFFECT OF ADDITIVE LEVEL ON THE SURFACE OF DIESEL ENGINE CYLINDER LINER**  
KALELİ E. H., Bektas D.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.17, no.1, pp.139-150, 2011 (SCI-Expanded)
- XIX. **COMPARISON OF ADDITIVE PROTECTIVE LAYER ON THE CYLINDER LINER SURFACE USING DIESEL ENGINE AND PIN-ON-PLATE TEST RIGS**  
Bektas D., Kaleli H.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.17, no.3, pp.411-425, 2011 (SCI-Expanded)
- XX. **DETERMINATION OF OIL DRAIN PERIOD IN NAVAL SHIP DIESEL ENGINE**  
KALELİ E. H., Yildirim E.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.15, no.4, pp.585-598, 2009 (SCI-Expanded)
- XXI. **Evaluation of Additive's Layer Formation in Engine Crankcase Oil Using Two Different Types of Tribological Test Rigs**  
Kaleli E. H.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.56, no.3, pp.158-170, 2004 (SCI-Expanded)
- XXII. **Measurement of friction force and effects of oil fortifier in engine journal bearings under dynamic loading conditions**  
Durak E., Kurbanoglu C., Biyiklioglu A., Kaleli H.  
TRIBOLOGY INTERNATIONAL, vol.36, pp.599-607, 2003 (SCI-Expanded)
- XXIII. **Engine emissions and poisoning effect of additives in synthetic oils on catalytic converter using an engine dynamometer**  
KALELİ E. H.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.55, no.4, pp.162-177, 2003 (SCI-Expanded)
- XXIV. **Effects of boron oil fortifier on friction and pressure distribution in engine journal bearings**  
KALELİ E. H., Durak E.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.55, pp.121-127, 2003 (SCI-Expanded)
- XXV. **Engine emissions and poisoning effect of synthetic oil's additives on catalytic converter using an engine dynamometer**  
Kaleli H.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.55, no.4, pp.162-177, 2003 (SCI-Expanded)
- XXVI. **The impact of crankcase oil containing phosphorus on catalytic converters and engine exhaust emissions**  
KALELİ E. H.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.53, no.6, pp.237-255, 2001 (SCI-Expanded)
- XXVII. **Protective effect of commercial oil fortifier in fully-formulated crankcase oils**  
KALELİ E. H.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.53, no.1, pp.10-21, 2001 (SCI-Expanded)
- XXVIII. **Emission of phosphorus-containing and phosphorus-free fully formulated crankcase oil using an engine dynamometer**  
Kaleli H., Khorramian B.

INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.24, pp.137-156, 2000 (SCI-Expanded)

- XXIX. **Effect of lubricant additives on the transition pressure from mild to severe wear for grey cast iron sliding pairs**

Kaleli H., Eyre T., Ghasripor F.

Wear, vol.208, pp.1-10, 1997 (SCI-Expanded)

- XXX. **Oil ageing - Drain period in a petrol engine**

Kaleli H., Yavasliol I.

INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.49, no.3, pp.120-127, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Tribological Investigation of The Effect of Aluminum Alloy in Accordance with Cast Iron Liner on Engine Wear**  
Kaleli E. H., Ocak B.  
TRIBOLOGY IN INDUSTRY, vol.45, no.2, pp.285-293, 2023 (Scopus)
- II. **Experimental investigation of the effect of tribological performance of reduced graphene oxide additive added into engine oil on gasoline engine wear**  
Kaleli E. H., Demirtaş S.  
LUBRICATION SCIENCE, vol.1627, pp.1-26, 2022 (Scopus)
- III. **Numerical analysis of cam and follower based on the interactive design approach**  
Al-Hamood A., Jamali H. U., Abdullah O. I., Senatore A., Kaleli H.  
INTERNATIONAL JOURNAL OF INTERACTIVE DESIGN AND MANUFACTURING - IJIDEM, vol.13, pp.841-849, 2019 (Peer-Reviewed Journal)
- IV. **Application of Suspended Nanoboric Acid as an Efficient Lubrication Additive in Engine Oil**  
KALELİ E. H., DEMİRTAŞ S., Uysal V., TANRISEVEN Z., ZHAO J.  
Key Engineering Materials, vol.823, pp.53-60, 2019 (Scopus)
- V. **Tribological Properties of New Developed Nano Boric Acid Suspended as Additive in Engine Oil**  
Kaleli E. H., Demirtaş S., Uysal V., Tanriseven Z.  
Key Engineering Materials, no.823, pp.41-52, 2019 (Scopus)
- VI. **Thermal treatment effect on tribological and corrosion performances of 13cr5ni2mo super-martensitic stainless steel**  
Tlili S., Beliardouh N. E., Ramoul C., Bahi R., Abdullah O., Kaleli H., Samad M.  
Tribology in Industry, vol.40, no.3, pp.433-439, 2018 (Scopus)
- VII. **New Universal Tribometer as Pin or Ball on Disc and Reciprocating Pin on Plate Types**  
KALELİ E. H.  
Tribology in Industry, vol.38, no.2, pp.235-240, 2016 (Scopus)
- VIII. **DESIGN OF MODERN UNIVERSAL TRIBOMETER WITH ROTATING AND RECIPROCATING MOVEMENT**  
KALELİ E. H.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.33, no.1, pp.78-84, 2015 (ESCI)
- IX. **The Effect and Comparison of Biodiesel-Diesel Fuel on Crankcase Oil, Diesel Engine Performance and Emissions**  
Yüksek L., Kaleli E. H., Özener O., Berk Ö.  
FME TRANSACTIONS, vol.37, no.2, pp.91-97, 2009 (ESCI)
- X. **The Effect and Comparison of Biodiesel-Diesel Fuel on Crankcase Oil, Diesel Engine Performance and Emissions**  
YÜKSEK L., KALELİ E. H., ÖZENER O., Özoğuz B.  
FME TRANSACTIONS, vol.37, no.2, pp.91-97, 2009 (ESCI)
- XI. **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 (ESCI)

**XII. Used Oil Analysis and Study of Oil Drain Period in Gasoline Engine**

KALELİ E. H.

Society Automotive Engineers, vol.981448, pp.91-104, 1998 (Peer-Reviewed Journal)

**Refereed Congress / Symposium Publications in Proceedings**

- I. **Nano Tribology of Nano Particles added in Engine Oil and Nano Coatings of Piston Rings-Cylinder Liners in Internal Combustion Engines**  
KALELİ E. H.  
6th International Conference and Exhibition on Automobile Mechanical Engineering, Zürich, Switzerland, 8 - 09 July 2019
- II. **3D Digital Microscopic Examination of Graphene Coated Engine Cylinder Liner Surface**  
Ağaçdelen Z., KALELİ E. H., Uysal V., Çıtak e.  
Automobile 2019 6th International Conference and Exhibition on Automobile Mechanical Engineering, Zürich, Switzerland, 8 - 09 July 2019
- III. **Effects of NBA nanoparticle as lubricant additives on friction and wear behaviour in Diesel Engine at Macro and Nanoscale**  
KALELİ E. H., DEMİRTAŞ S., Uysal V., TANRISEVEN Z.  
APM 2019 International Conference on Advancements in Polymeric Materials Innovations in Polymeric Product Development and Manufacturing, Chennai, India, 22 - 24 January 2019
- IV. **Is the Coating of Graphene Oxide Effective to Protect Cylinder Liner Surface?**  
Uysal V., KALELİ E. H., ÖKTEM A. S., Topaç E.  
APM 2019 International Conference on Advancements in Polymeric Materials Innovations in Polymeric Product Development and Manufacturing Central, Chennai, India, 22 - 24 January 2019
- V. **Application of Suspended Nanoboric Acid as an Efficient Lubrication Additive in Engine Oil**  
KALELİ E. H., DEMİRTAŞ S., TANRISEVEN Z., ZHAO J.  
International Conference on Engineering Tribology and Applied Technology" (ICETAT 2018), Taipei, Taiwan, 16 - 18 November 2018
- VI. **Tribological Properties of New Developed Nano boric Acid Suspended as Additive in Engine Oil**  
KALELİ E. H., DEMİRTAŞ S., TANRISEVEN Z.  
International Conference on Engineering Tribology and Applied Technology" (ICETAT 2018), Taipei, Taiwan, 16 - 18 November 2018
- VII. **Metrological Characterisation of Metallic Implant Surfaces Coated by Electron Beam Deposition of Bioglass**  
SAĞBAŞ B., KALELİ E. H., YÜCEL S.  
2nd International Conference on Tribology, Turkeytrib'18, İstanbul, Turkey, 18 - 20 April 2018
- VIII. **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
- IX. **Characterization of Graphene Nanoplates in the Oil in terms of Friction and Wear for Internal Combustion Engine's Piston Ring/Cylinder Liner**  
KALELİ E. H., SANER OKAN B.  
ITS-IFTToMM 2017, Jeju-Si, South Korea, 19 - 22 March 2017, pp.11-12
- X. **Surface Coating of Monolayer Graphene on Piston Ring for Internal Combustion Engines**  
Çıtak E., KALELİ E. H., KARAMAN M., ERSÖZ M.  
Automobile 2016, Valencia, Spain, 1 - 02 December 2016
- XI. **Characterization Of Wear Mechanisms Occurring On Piston Ring And Cylinder Bore Of The Internal Combustion Engine**

DEMİRTAŞ S., KALELİ E. H.

2nd International Conference and Exhibition on Automobile Engineering, Valencia, Spain, 01 December 2016, pp.53

- XII. **Layer Protection of Oil Additives Lubrication Friction Wear within Surface Coatings of Piston Rings against Cylinder Liner in Internal Combustion Engines**  
KALELİ E. H.  
Automobile 2016, Valencia, Spain, 1 - 02 December 2016
- XIII. **Tribological Characterization of Engine Oil Additives with Nitrated Coated Piston Rings under Tribology and Engine Testing Conditions**  
KALELİ E. H., Kchaou M.  
International Conference on Engineering Tribology and Applied Technology" (ICETAT 2016), Taipei, Taiwan, 4 - 06 November 2016
- XIV. **Is Abrasive Wear Common Mechanism of Piston Ring and Cylinder Liner Rubbed Surfaces?**  
DEMİRTAŞ S., KALELİ E. H.  
AAT 2016, İstanbul, Turkey, 11 October 2016, pp.333
- XV. **Tribological Behavior of Uncoated and Graphene Graphite Coated Piston Rings at Nano and Macro Scale**  
ÖZKAN D., KALELİ E. H., YÜKSEK L., YAĞCI M. B., Özgür B.  
WE-Heraeus-Seminar on Mechanisms of Tribology, Bonn, Germany, 29 March - 01 April 2016
- XVI. **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
- XVII. **Tribotest and Engine Experiments of Crankcase Oil Additives to Obtain Protective Tribofilm Formation Between Rubbing Surfaces**  
KALELİ E. H.  
ICAMEM 2015 Sixth International Conference on Advances in Mechanical Engineering and Mechanics, Hammamet, Tunisia, 20 - 22 December 2015
- XVIII. **SLIDING WEAR BEHAVIOR OF MAGNETRON SPUTTERED CHROMIUM CARBIDE THIN FILMS**  
BELIARDOUH N. E., NOUVEAU C., KALELİ E. H.  
TURKEYTRIB'15-1st INTERNATIONAL CONFERENCE ON TRIBOLOGY 7 - 9 October 2015, Yıldız Technical University, İSTANBUL - TURKEY, İstanbul, Turkey, 7 - 09 October 2015
- XIX. **OPTICAL NANOSCOPIC METHODS TO COMPARE LAYER AND ADHESIVE FORCE OF OIL ADDITIVES ON THE RUBBED SURFACES**  
KALELİ E. H., Özkan D.  
BULTRIB'15 11th International Conference On Tribology 11-13 September 2015, Sozopol, Bulgaria, Sozopol, Bulgaria, 11 - 13 September 2015, pp.20
- XX. **NEW UNIVERSAL TRIBOMETER AS PIN OR BALL ON DISC AND RECIPROCATING PIN ON PLATE TYPES**  
KALELİ E. H.  
SERBIATRIB '15-14th International Conference on Tribology, Belgrade, Serbia And Montenegro, 13 - 15 May 2015, pp.251-256
- XXI. **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
- XXII. **Characterization of Additives Layer Thickness in Engine Crankcase Oil Between Sliding Pairs**  
KALELİ E. H.  
Proceedings of World Tribology Congress 2009, WTC IV in Kyoto, 06-11 September 2009, Japanese Society of Tribologists Science Council of Japan, 01 September 2009
- XXIII. **The Effect and Comparison of Biodiesel-Diesel Fuel on Crankcase Oil, Diesel Engine performance and**

## **Emissions**

KALELİ E. H.

11th International Conference on Tribology, Belgrade, SERBIATRIB09, 01 May 2009

**XXIV. Tribomechanical-Chemical Effects and Visualisation of Additives Layer Formation in Engine Crankcase Oil Between Sliding Pairs**

KALELİ E. H.

Proceedings of WTC2005 World Tribology Congress III September 12-16, 2005, Washington, D.C., USA, 01 September 2005

**XXV. Kullanılmış Motor Yağlarının Geri Kazanım Yöntemleri ve Ekonomik Değerlendirilmesi**

KALELİ E. H.

TMMOB Makine Mühendisleri Odası, VIII. Otomotiv ve Yan Sanayii Sempozyumu 17-18 Ekim 2003, Hotel Almira-Bursa, 01 October 2003

**XXVI. Experimental Engine with Flexible Otto or Diesel Cycle (VCR-Variable Compression Ratio)**

KALELİ E. H.

Proceedings of the 6th International Conference and Exhibition, Innovative Automotive Technology IAT '03, 24.-25. april 2003 Koper/Portoroz, Slovenia, 01 April 2003

**XXVII. Effect of Friction, Wear and Layer Protection of Oil Fortifiers Added into Crankcase Oils in an Internal Combustion Engine's Journal Bearings**

KALELİ E. H.

4th International Conference on Tribology, June 12-14 2002, 01 June 2002

**XXVIII. Motor Yağları ve Katkıları**

KALELİ E. H.

TMMOB Makine Mühendisleri Odası, VII. Otomotiv ve Yan Sanayi Sempozyumu 26-27 Ekim 2001, Hotel Almira-Bursa, 01 October 2001

**XXIX. Study of Friction and Wear Characteristics of Phosphorus and Phosphorus-Free Crankcase Oils**

KALELİ E. H.

International Conference on Lubrication Techniques, 27-28 October 1999, 01 October 1999

**XXX. Oxidation Stability of Some Phosphorus-Free Fully Formulated Crankcase Oils**

KALELİ E. H.

International Fall Fuels and Lubricants Meeting and Exposition, October 1998, San Francisco, CA, USA, Session: Passenger Car Lubricants (Part 3), 01 October 1998

**XXXI. İçten Yanmalı Motorlarda Motor Çalışma Şartlarının Aşınmaya Etkileri**

KALELİ E. H.

Yıldız Teknik Üniversitesi Fen Bilimleri Enstitüsü, I. Bilimsel Öğrenci Kurultayı, 01 May 1994

## **Supported Projects**

KALELİ E. H., Project Supported by Higher Education Institutions, Motor Yağları Katkı Maddelerinin Segman ve Silindir Yüzeylerinde Oluşturduğu Yüzey Koruma Etkinliğinin Tribotest Cihazında ve İçten Yanmalı Motor Deney Setinde Test Edilerek, Nanomikroskobik Olarak İncelenmesi, 2013 - 2016

KALELİ E. H., Project Supported by Higher Education Institutions, Motor Yağlama Yağına Eklenen Katkıların (Yağ kuvvetlendiricilerin) aşınma-sürtünme etkisinin Lineer Hareketli Pim-Plaka Tribometre ile deneysel olarak araştırılması, 2012 - 2015

İŞİN Ö., KALELİ E. H., Piyasada bulunan ticari Motor yağları katkı maddelerinin (Yağ kuvvetlendiricilerinin) sürtünme üzerindeki etkilerinin dışardan tahrikli İçten Yanmalı Motorda deneysel olarak araştırılması ve yakıt ekonomisine olan katkılarının incelenmesi, 2003 - 2005

KALELİ E. H., Other International Funding Programs, Experimental Research of the Effect of Physical and Chemical Protection Created Between Sliding Surfaces of Engine Crankcase Oil's Additives, 1999 - 2003

## Activities in Scientific Journals

Journal Of The Balkan Tribological Association, Editor, 2014 - Continues

Mechanical Testing and Diagnosis, Editor, 2013 - Continues

## Scientific Refereeing

Materials Chemistry and Physics: Photoluminescence properties of self-activated EuVO<sub>4</sub> red phosphor for white light-emitting diodes, SCI Journal, September 2013

Materials Chemistry and Physics: Ag/TiO<sub>2</sub>-n/Ti and Ag/Al<sub>2</sub>O<sub>3</sub>-n/Al hybrid materials: role of Ag particles in their behavior as SERS-active and biomedical substrates, SCI Journal, June 2012

Materials Chemistry and Physics: Studies on passive films of Type 316LN stainless steels using Raman spectroscopy and imaging, SCI Journal, February 2012

Materials Chemistry and Physics: 3-Methyl-4-amino-5-mercapto-1,2,4-triazole as corrosion inhibitor for 6061/Al - 15 (vol-%) SiC(p) composite in 0.5 M sodium hydroxide solution, SCI Journal, May 2011

Materials Chemistry and Physics: Evaluation of different polyolefins as rheology modifier additives in lubricating grease formulations, SCI Journal, December 2010

## Metrics

Publication: 73

Citation (WoS): 80

Citation (Scopus): 231

H-Index (WoS): 5

H-Index (Scopus): 8

## Congress and Symposium Activities

1st International Conference (Virtual) on TECHNOLOGICAL INNOVATIONS IN MECHANICAL ENGINEERING (TIME-2021, Invited Speaker, Uttarpara-Kotrung, India, 2021

CIPET announces its 10th International Conference on Advancements in Polymeric Materials, APM 2019, Invited Speaker, Chennai, India, 2019

ICETAT 2018 International Conference on Engineering Tribology and Applied Technology, Invited Speaker, Taipei, Taiwan, 2018

Sixth World Tribology Congress (WTC 2017), Invited Speaker, Beijing, China, 2017

ITS-IFTToMM 2017, Invited Speaker, Jeju-Si, South Korea, 2017

## Invited Talks

Development of Reduced Graphene Oxide Coating for Engine Cylinder Liner by Electrophoretic Deposition Method and Evaluation of its Tribological Performances, Seminar, IAS Loughborough Institute of Advanced Studies U.K. , England, July 2023

## Awards

Kaleli E. H., Tribological Performance of Innovated Reduced Graphene Oxide Suspended as Additive in Engine Commercial Oil", Yonsei Üniversitesi, September 2022



Kaleli E. H., Best Innovative Paper award, Department Of Mechanical Engineering (School Of Engineering And Technology) In Technological Innovations In Mechanical Engineering (Time-2021) , April 2021

Kaleli E. H., High Scientific Success Award, 6Th International Conference And Exhibition On Automobile&Mechanical Engineering, July 2019

KALELİ E. H., Best industry Academic Application Award, Taiwan Society of Tribology Technology, November 2018

Kaleli E. H., Excellent Paper Award, International Conference On Engineering Tribology And Applied Technology" (Icetat 2016), November 2016

KALELİ E. H., Tribotest and Engine Experiments of Crankcase Oil Additives to Obtain Protective Tribofilm Formation Between Rubbing Surfaces, ICAMEM 2015 Sixth International Conference on Advances in Mechanical Engineering and Mechanics Konferansı, December 2015

Kaleli E. H., Tribology Honorary Diploma and Medal, Interdisciplinary Civic Academy Bulgaria, September 2010

Kaleli E. H., High Scientifical Success Award on Tribology , Insa (Institut National Des Sciences Appliquées), European Tribological Institute- Lamcos, August 2008