

## Personal Information

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## Biography

2005 yılında kayıt olduğu Yıldız Teknik Üniversitesi (YTÜ) Gemi İnş. ve Gemi Mak. Müh. Bölümünden 2010 yılında lisans derecesi aldı. YTÜ FBE Gemi İnş. ve Gemi Mak. Müh. ABD. 2012 yılında yüksek lisans derecesi ve 2019 yılında ise doktora derecesi almıştır. Ayrıca, 2019 güz yarıyılı itibariyle İstanbul Teknik Üniversitesi SBE Bilim ve Teknoloji Tarihi programında yüksek lisans eğitimine devam etmektedir.

## Education Information

Post Graduate, İstanbul Technical University, Sosyal Bilimler Enstitüsü, Bilim ve Teknoloji Tarihi, Turkey 2019 - Continues  
Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnş. Ve Gemi Mak. Müh., Turkey 2012 - 2019

Post Graduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnş. Ve Gemi Mak. Müh., Turkey 2010 - 2012

Under Graduate, Yıldız Technical University, Naval Architecture and Maritime Faculty, Department of Naval Architecture and Marine Engineering, Turkey 2005 - 2010

## Dissertations

Doctorate, TERMİK SİSTEMLERİN BOYUT VE PERFORMANS OPTİMİZASYONU İÇİN YENİ BİR YÖNTEM: EKSERJİ YOĞUNLUĞU, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2018

Post Graduate, Buhar türbinlerinin kısmi yüklerdeki performans davranışlarının incelenmesi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnş. Ve Gemi Mak. Müh., 2012

## Courses

Teknik Termodinamik I, Under Graduate, 2019 - 2020

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

- **Performance analyses and optimisation of the Joule-Brayton cycle via the mean cycle pressure criterion**  
KARAKURT A. S. , ŞAHİN B.  
INTERNATIONAL JOURNAL OF EXERGY, vol.25, pp.339-349, 2018 (Journal Indexed in SCI)
- **Performance analysis of Multipurpose Refrigeration System (MRS) on fishing vessel**  
ÜST Y., Karakurt A. S. , Gunes Ü.  
Polish Maritime Research, vol.23, pp.48-56, 2016 (Journal Indexed in SCI Expanded)
- **Analysis of a Cascade Refrigeration System (CRS) by Using Different Refrigerant Couples Based on the**

## **Exergetic Performance Coefficient (EPC) Criterion**

ÜST Y., KARAKURT A. S.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, pp.8147-8156, 2014 (Journal Indexed in SCI)

## **Articles Published in Other Journals**

- **Investigation of Waste Heat Energy in a Marine Engine with Transcritical Organic Rankine Cycle**  
Kaya İ., Karakurt A. S. , Üst Y.  
Journal of Thermal Engineering, vol.6, pp.282-296, 2020 (Journal Indexed in ESCI)
- **COMPARATIVE MAXIMUM POWER DENSITY ANALYSIS OF A SUPERCRITICAL CO<sub>2</sub> BRAYTON POWER CYCLE**  
Karakurt A. S. , Başhan V., Üst Y.  
JOURNAL OF THERMAL ENGINEERING, vol.6, pp.50-57, 2020 (Journal Indexed in ESCI)
- **A NEW APPROACH FOR EVALUATING THE RANKINE CYCLE THROUGH ENTROPY GENERATION**  
KARAKURT A. S. , GÜNEŞ Ü.  
JOURNAL OF THERMAL ENGINEERING, vol.5, pp.141-148, 2019 (Journal Indexed in ESCI)
- **A NEW METHOD FOR THE SIZE AND PERFORMANCE ANALYSES AND OPTIMIZATION OF THERMAL SYSTEMS: THE EXERGY DENSITY**  
Karakurt A. S. , Şahin B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, pp.573-583, 2019 (Journal Indexed in ESCI)
- **Performance Analysis of a Steam Turbine Power Plant at Part Load Conditions**  
Karakurt A. S. , Güneş Ü.  
JOURNAL OF THERMAL ENGINEERING, vol.3, pp.1121-1128, 2017 (International Refereed University Journal)
- **Exergy And Economic Analysis Of Dual Pressure Waste Heat Recovery Boiler**  
GÜNEŞ Ü., KARAKURT A. S.  
International Journal of Advances in Mechanical and Civil Engineering, vol.2, pp.41-43, 2015 (Refereed Journals of Other Institutions)

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

- **Comparative Performance Analysis Of A Marine Refrigeration System That Operates With Different Refrigerants Via The Exergy Density**  
Karakurt A. S.  
7th International Conference On Energy Research and Development, Al-Kuwayt, Kuwait, 19 - 21 Kasım 2019, pp.1-8
- **Kuzey Kutup Hattında Çalışan Bir Gemiye Ait Soğutma Sisteminin Enerji ve Ekserji Analizleri**  
Karakurt A. S. , Güneş Ü.  
22nd Congress on Thermal Science and Technology (CTST 2019), Kocaeli, Turkey, 11 - 14 Eylül 2019, pp.1-6
- **Energy and Exergy Analysis of Ship High Pressure Air Systems**  
Karakurt A. S. , Özşarı İ., Başhan V.  
World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 Ağustos 2019, pp.1-4
- **The effect of size on entropy generation for waste heat recovery boiler**  
Güneş Ü., Karakurt A. S. , Şahin B.  
The 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2019), Wrocław, Poland, 23 - 28 Haziran 2019, pp.809-818
- **Performance Analysis and Optimization of Power Cycles via the Mean Cycle Pressure Criterion (MCP) and Entropy Generation (EG)**  
KARAKURT A. S. , ŞAHİN B.  
ECOS 2018 - THE 31TH INTERNATIONAL CONFERENCE ON EFFICIENCY, COST, OPTIMIZATION, SIMULATION AND ENVIRONMENTAL IMPACT OF ENERGY SYSTEMS, Guimarães, Portugal, 17 Haziran 2018, pp.1-10

- **Exergetic and Ecological Performance Analysis and Optimization of Brayton Cycle Via Mean Cycle Pressure Criterion (MCP)**  
Karakurt A. S. , Şahin B.  
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017– ICAME2017, İstanbul, Turkey, 19 Aralık 2017, pp.692-698
- **COMPARATIVE MAXIMUM POWER DENSITY ANALYSIS OF A SUPERCRITICAL CO<sub>2</sub> (S-CO<sub>2</sub>) BRAYTON POWER CYCLE**  
KARAKURT A. S. , BAŞHAN V., ÜST Y.  
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017– ICAME2017, İstanbul, Turkey, 19 - 21 Aralık 2017, pp.699-706
- **Exergetic Performance Analysis of Fishing Vessel Refrigeration System**  
Karakurt A. S. , Güneş Ü.  
2nd International Congress on Energy Systems (ICES-2016), İstanbul, Turkey, 22 Aralık 2016, pp.1-10
- **Balıkçı Gemisi Soğutma Sisteminin Birinci Yasa Analizleri**  
Karakurt A. S. , Güneş Ü.  
1. Uluslararası Gemi ve Deniz Teknolojisi Kongresi (GMO-SHIPMAR), İstanbul, Turkey, 8 - 09 Aralık 2016
- **Performance Analysis of a Steam Power Plant with District Heating**  
Köroğlu T., Karakurt A. S. , Güneş Ü.  
29th International Conference on Efficiency, Cost, Optimisation, Simulation and Environmental Impact of Energy Systems (ECOS 2016)., Postojna, Slovenia, 19 - 23 Haziran 2016
- **Exergetic and economic analysis of subcooling & superheating effect on vapor compression refrigeration system**  
KARAKURT A. S. , GÜNEŞ Ü., ÜST Y.  
ASME 2016 Power Conference, POWER 2016, collocated with the ASME 2016 10th International Conference on Energy Sustainability and the ASME 2016 14th International Conference on Fuel Cell Science, Engineering and Technology, North-Carolina, United States Of America, 26 - 30 Haziran 2016
- **Performance Analysis of Turbocharged 2-Stroke Diesel Engine**  
Güneş Ü., Üst Y., Karakurt A. S.  
1st International Conference on Engineering and Natural Sciences, Skopje, Macedonia, 15 - 19 Mayıs 2015, vol.1, pp.656-664
- **Exergetic Performance Analyses of Natural Gas Liquefaction**  
KARAKURT A. S. , GÜNEŞ Ü., ARDA M., ÜST Y.  
2nd International Symposium on Naval Architecture and Maritime. 2nd International Symposium on Naval Architecture and Maritime, 22 - 24 Ekim 2014
- **Marine Steam Turbines**  
Karakurt A. S.  
1st International Symposium on Naval Architecture and Maritime

## Activities in Scientific Journals

Tamap Journal of Engineering, Committee Member, 2019 - Continues

## Scientific Refereeing

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, SCI Journal, June 2019  
ENERGY, SCI Journal, June 2019

## Tasks In Event Organizations

Karakurt A. S. , INTERNATIONAL SYMPOSIUM on ARCHITECTURE AND MARITIME (INT-NAM 2018 ), Scientific Congress, İstanbul, Turkey, Eylül 2019

Karakurt A. S. , World Energy Strategies Congress and Exhibition 2019 (WESCE'19), Scientific Congress, İstanbul, Turkey, Ağustos 2019