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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-6496-2020

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2016 - 2021

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2013 - 2015

Undergraduate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, Turkey 2009 - 2013

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Thermodynamics, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Naval Architecture and Marine Engineering, Ship Machines, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, -, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. Selection of marine type air compressor by using fuzzy VIKOR methodology

Kaya A., Başhan V., Üst Y.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M: JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.236, no.1, pp.103-112, 2022 (SCI-Expanded)

II. Exergetic performance analysis of high pressure air systems on ships

KARAKURT A. S., ÖZSARI İ., BAŞHAN V.

International Journal Of Exergy, vol.37, 2022 (SCI-Expanded)

- III. **Thermodynamic performance analysis of state of the art gas turbine cycles with inter-stage turbine reheat and steam injection**
Kayadelen H. K., Üst Y., Başhan V.
Energy, vol.222, pp.1-14, 2021 (SCI-Expanded)
- IV. **A mixed algorithm for investigation the effects of the preparation processes during the catalyst synthesis with sol-gel method and coating**
Başhan V., Üst Y., Balkanlı E., Figen H. E.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.96, no.1, pp.131-142, 2020 (SCI-Expanded)
- V. **Exergoeconomic and air emission analyses for marine refrigeration with waste heat recovery system: a case study**
BAŞHAN V., KÖKKÜLÜNK G.
Journal of Marine Engineering and Technology, vol.19, no.3, pp.147-160, 2020 (SCI-Expanded)
- VI. **Comparative energy and exergy analysis and optimisation study on the supercritical CO2 recompression power cycle**
Gumus E., Başhan V.
International Journal Of Exergy, vol.32, no.2, pp.130-149, 2020 (SCI-Expanded)
- VII. **An FMEA-based TOPSIS approach under single valued neutrosophic sets for maritime risk evaluation: the case of ship navigation safety**
Başhan V., Demirel H., Gül M.
Soft Computing, vol.24, pp.1-16, 2020 (SCI-Expanded)
- VIII. **A NOVEL RISK EVALUATION APPROACH FOR FREQUENTLY ENCOUNTERED RISKS IN SHIP ENGINE ROOMS**
Başhan V., Demirel H., Gül M.
Brodogradnja, vol.71, no.2, pp.31-54, 2020 (SCI-Expanded)
- IX. **Environmental impact and cost analysis of gas turbine cycles with steam injection and inter-stage turbine reheat**
KAYADELEN H. K., ÜST Y., BAŞHAN V.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.21, no.4, pp.356-372, 2020 (SCI-Expanded)
- X. **Perovskite catalysts for methane combustion: applications, design, effects for reactivity and partial oxidation**
Başhan V., Üst Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.14, pp.7755-7789, 2019 (SCI-Expanded)
- XI. **Multi-criteria performance optimization and analysis of a gas-steam combined power system**
Gonca G., Başhan V.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.41, no.9, 2019 (SCI-Expanded)
- XII. **Application of fuzzy dematel method to analyse s-CO2 Brayton power systems**
Başhan V., Üst Y.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.37, pp.8483-8498, 2019 (SCI-Expanded)
- XIII. **Comprehensive energy and exergy analysis on optimal design parameters of recuperative supercritical CO2 power cycle**
BAŞHAN V., Gumus E.
INTERNATIONAL JOURNAL OF EXERGY, vol.27, no.2, pp.165-205, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **COMPARATIVE MAXIMUM POWER DENSITY ANALYSIS OF A SUPERCRITICAL CO2 BRAYTON POWER CYCLE**
Karakurt A. S., Başhan V., Üst Y.
JOURNAL OF THERMAL ENGINEERING, vol.6, pp.50-57, 2020 (ESCI)

- II. **Application of Fuzzy Dematel Technique to Assess Most Common Critical Operational Faults of Marine Boilers**
BAŞHAN V., Demirel H.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.22, no.3, pp.545-555, 2019 (ESCI)
- III. **Evaluation of Critical Operational Faults of Marine Diesel Generator Engines by Using DEMATEL Method**
BAŞHAN V., DEMİREL H.
JOURNAL OF ETA MARİTİME SCİENCE, no.2, pp.119-128, 2018 (Peer-Reviewed Journal)
- IV. **Cost Efficiency and Emission Analysis of a Bulk Carrier Cranes Operation**
Bashan V., ÇAKIR M., SÖNMEZ H. İ.
JOURNAL OF ETA MARİTİME SCİENCE, vol.6, no.1, pp.27-36, 2018 (ESCI)
- V. **Değişken deniz suyu sıcaklıklarında çalışan bir gemiye ait soğutma sisteminin ekserji analizi**
Başhan V., Parlak A.
JOURNAL OF ETA MARİTİME SCİENCE, vol.4, no.2, pp.149-155, 2016 (Peer-Reviewed Journal)
- VI. **Değişken Deniz Suyu Sıcaklıklarında Çalışan Bir Gemi Soğutma Sisteminin Ekonomik Analizi**
Başhan V., Parlak A.
JOURNAL OF ETA MARİTİME SCİENCE, vol.3, no.2, pp.67-74, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **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 August 2019, pp.1-4
- II. **Performance, Emission and Economic Analysis of The Refrigeration Systems in Ships**
Başhan V., Kaya A., Özşarı İ., Arslan F., Sönmez H. İ.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2018, İstanbul, Turkey, 19 December 2018, pp.875-886
- III. **Evaluation of Supercritical Carbon dioxide (sCO₂) Brayton Power Cycle with Catalytic Combustion in Marine Applications**
ÜST Y., BAŞHAN V.
International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 02 May 2018, pp.367
- IV. **DESIGN AND CALCULATION OF THE WASTE HEAT RECOVERY POTENTIAL FOR A BULK CARRIER MARINE DIESEL GENERATOR**
KÖKKÜLÜNK G., BAŞHAN V., KAYA A., SÖNMEZ H. İ., Sarıca A.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017- ICAME2017, İstanbul, Turkey, 19 December 2017, pp.366-374
- V. **Cappuccino Effect on Intermediate Fuel Oil (IFO) Bunkering Operations**
ÜST Y., BAŞHAN V.
III. International Conference on Engineering and Natural Science (ICENS), Budapeşte, Hungary, 03 May 2017, pp.100-108
- VI. **Bir Yük Gemisinin Balast Operasyonunun Ekonomik ve Ekolojik Analizi**
BAŞHAN V., SÖNMEZ H. İ., GONCA G.
1st International Congress on Ship and Marine Technology, İstanbul, Turkey, 25 December 2016, pp.1-12
- VII. **A CFD Analyses of Air Floatation and Cushioning System Which will be Used in Packing of Sensitive Surfaced Metal Sheets**
Başhan V., Dönertaş İ., Boğoçlu M. E.
2nd International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016
- VIII. **Effects of Using Variable Speed Compressors in HVAC Systems on Emissions from Marine Auxiliary Diesel Engines**
BAŞHAN V., Parlak A.

Other Publications

- I. **Gemilerde Kullanılan Soğutma Sistemlerinin Değişken Çevre Şartlarına Göre Performans Analizi**
Başhan V.
Other, 1

Supported Projects

- ÜST Y., BAŞHAN V., Project Supported by Higher Education Institutions, Perovskit Katalizörlerde Metan Yanmasının Deneyisel Olarak İncelenmesi, 2018 - 2021
- ÇAKIR M., SÖNMEZ H. İ., ÜST Y., BAŞHAN V., Project Supported by Higher Education Institutions, Doğal Gaz Yakıtlı Tek Silindirli Bir Motorun İdeal Sıcaklık Çalışma Koşullarının Belirlenmesi, 2018 - 2021
- ÜST Y., BAŞAK M. E., BAŞHAN V., PALACI Y., KARAKURT A. S., ARSLAN F., Project Supported by Higher Education Institutions, Karbondioksitin perovskit katalist kullanılan sCO₂ güç çevrimlerinde metan yanmasına etkilerinin incelenmesi, 2018 - 2021
- YILMAZ O., BAŞHAN V., YİĞİT K., BAYAR H., Project Supported by Higher Education Institutions, Farklı Deniz Suyu Sıcaklıklarında Çalışan Gemilerin Soğutma Sistemlerinin Değişken Devirli Kompresör ile Çalıştırılmasının Soğutma Performansına Etkilerinin İncelenmesi, 2015 - 2018

Scientific Refereeing

- ENERGY REPORTS, Journal Indexed in SCI-E, October 2021
- ENERGY CONVERSION AND MANAGEMENT, National Scientific Refreed Journal, October 2021
- PLOS ONE, Journal Indexed in SCI-E, October 2021
- ENERGY, Journal Indexed in SCI-E, September 2021
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Journal Indexed in SCI-E, September 2021
- MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCI-E, June 2021
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Journal Indexed in SCI-E, May 2021
- Journal of ETA Maritime Science, Journal Indexed in ESCI, May 2021
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Journal Indexed in SCI-E, April 2021
- INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, December 2020
- INTERNATIONAL JOURNAL OF EXERGY, Journal Indexed in SCI-E, November 2020
- JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, SCI Journal, July 2020
- ENERGY CONVERSION AND MANAGEMENT, Journal Indexed in SCI-E, June 2020
- INTERNATIONAL JOURNAL OF GLOBAL WARMING, Journal Indexed in SCI-E, May 2020
- ENERGY CONVERSION AND MANAGEMENT, SCI Journal, March 2020
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, SCI Journal, November 2019
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, SCI Journal, November 2019
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, SCI Journal, October 2019
- Journal Of Intelligent & Fuzzy Systems, SCI Journal, October 2019
- ENERGY CONVERSION AND MANAGEMENT, SCI Journal, October 2019
- JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Journal Indexed in SCI-E, September 2019
- Energy Conversion And Management, SCI Journal, August 2019
- JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, August 2019
- INTERNATIONAL JOURNAL OF EXERGY, SCI Journal, August 2019
- ENERGY CONVERSION AND MANAGEMENT, SCI Journal, July 2019

International Journal of Energy Research, SCI Journal, June 2019
Journal of Thermal Engineering, Other Indexed Journal, April 2019
Scientia Iranica, SCI Journal, March 2019
Journal of Marine Engineering & Technology , SCI Journal, February 2019
Journal of Marine Engineering & Technology, SCI Journal, September 2018
Journal of Thermal Engineering, Other Indexed Journal, September 2018
Journal of Thermal Engineering, Other Indexed Journal, February 2018
Energy Conversion and Management, SCI Journal, January 2018
Energy Conversion and Management, SCI Journal, October 2017
Energy Conversion and Management, SCI Journal, August 2017

Tasks In Event Organizations

Başhan V., Sadıkoğlu H., Özsarı İ., Ulusarslan D., World Energy Strategies Congress and Exhibition, Scientific Congress, İstanbul, Turkey, Ağustos 2019

Metrics

Publication: 29
Citation (WoS): 28
Citation (Scopus): 35
H-Index (WoS): 3
H-Index (Scopus): 4

Non Academic Experience

Business Establishment Private, İnce Denizcilik A.Ş.