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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAG-4562-2019

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Eğitim Bilgileri

Doktora, The University of Michigan, Amerika Birleşik Devletleri 1991 - 1993

Yüksek Lisans, The University of Michigan, Amerika Birleşik Devletleri 1988 - 1991

Yüksek Lisans, The University of Michigan, Amerika Birleşik Devletleri 1987 - 1988

Lisans, İstanbul Teknik Üniversitesi, Türkiye 1981 - 1985

Araştırma Alanları

Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Gelişim Üniversitesi, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ (İNGİLİZCE) ,
2023 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Overall and component basis performance evaluations for turbojet engines under various optimal operating conditions**
Fawal S., KODAL A.
Aerospace Science and Technology, cilt.117, 2021 (SCI-Expanded)
- II. **Comparative performance analysis of various optimization functions for an irreversible Brayton cycle applicable to turbojet engines**
Fawal S., KODAL A.
Energy Conversion and Management, cilt.199, 2019 (SCI-Expanded)
- III. **A comparative study of turbulent velocity fields in an internal combustion engine with shrouded valve and flat/bowl piston configurations**
ERDİL A., KODAL A.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, cilt.221, sa.12, ss.1597-1607, 2007 (SCI-Expanded)
- IV. **Optimization of a dual cycle cogeneration system based on a new exergetic performance criterion**

- Ust Y., Sahin B., Kodal A.
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- V. **Performance analysis of an irreversible Brayton heat engine based on ecological coefficient of performance criterion**
Ust Y., Sahin B., Kodal A.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, cilt.45, ss.94-101, 2006 (SCI-Expanded)
- VI. **Ecological coefficient of performance analysis and optimization of an irreversible regenerative-Brayton heat engine**
Ust Y., Sahin B., Kodal A., Akcay I. H.
APPLIED ENERGY, cilt.83, ss.558-572, 2006 (SCI-Expanded)
- VII. **Turbulence Filter and POD Analysis for Velocity Fields in Lifted CH 4-Air Diffusion Flames**
KODAL A., Watson K. A., Roberts W. L., Lyons K. M.
Flow, Turbulence and Combustion, cilt.70, sa.1-4, ss.21-41, 2003 (SCI-Expanded)
- VIII. **Finite size thermoeconomic optimization for irreversible heat engines**
Kodal A., Sahin B.
International Journal of Thermal Sciences, cilt.42, sa.8, ss.777-782, 2003 (SCI-Expanded)
- IX. **Thermoeconomic optimization for irreversible absorption refrigerators and heat pumps**
Kodal A., Sahin B., Ekmekci I., Yilmaz T.
ENERGY CONVERSION AND MANAGEMENT, cilt.44, ss.109-123, 2003 (SCI-Expanded)
- X. **Decomposition of turbulent velocity fields in an SI engine**
ERDİL A., KODAL A., AYDIN K.
Flow, Turbulence and Combustion, cilt.68, sa.2, ss.91-110, 2002 (SCI-Expanded)
- XI. **Thermoeconomic optimization of a two stage combined refrigeration system: a finite-time approach**
Sahin B., Kodal A.
INTERNATIONAL JOURNAL OF REFRIGERATION, cilt.25, ss.872-877, 2002 (SCI-Expanded)
- XII. **Performance optimization of a new combined power cycle based on power density analysis of the dual cycle**
Sahin B., Kesgin U., Kodal A., Vardar N.
ENERGY CONVERSION AND MANAGEMENT, cilt.43, ss.2019-2031, 2002 (SCI-Expanded)
- XIII. **Performance analysis of an endoreversible heat engine based on a new thermoeconomic optimization criterion**
Sahin B., Kodal A.
Energy Conversion and Management, cilt.42, sa.9, ss.1085-1093, 2001 (SCI-Expanded)
- XIV. **Optimal performance characteristics of a two-stage irreversible combined refrigeration system under maximum cooling load per unit total cost conditions**
Sahin B., Kodal A., Koyun A.
ENERGY CONVERSION AND MANAGEMENT, cilt.42, ss.451-465, 2001 (SCI-Expanded)
- XV. **Performance analysis of two stage combined heat pump system based on thermoeconomic optimization criterion**
Kodal A., Sahin B., Oktem A. S.
Energy Conversion and Management, cilt.41, sa.18, ss.1989-1998, 2000 (SCI-Expanded)
- XVI. **Effects of internal irreversibility and heat leakage on the finite time thermoeconomic performance of refrigerators and heat pumps**
Kodal A., Sahin B., Yilmaz T.
ENERGY CONVERSION AND MANAGEMENT, cilt.41, ss.607-619, 2000 (SCI-Expanded)
- XVII. **An investigation of forced structures in turbulent jet flows**
YILMAZ T., KODAL A.
Experiments in Fluids, cilt.29, sa.6-6, ss.564-572, 2000 (SCI-Expanded)
- XVIII. **A comparative performance analysis of irreversible Carnot heat engines under maximum power density and maximum power conditions**
Kodal A., Sahin B., Yilmaz T.

- ENERGY CONVERSION AND MANAGEMENT, cilt.41, ss.235-248, 2000 (SCI-Expanded)
- XIX. **An analysis on coaxial jet flows using different decomposition techniques**
Yilmaz T., Kodal A.
JOURNAL OF FLUIDS AND STRUCTURES, cilt.14, ss.359-373, 2000 (SCI-Expanded)
- XX. **Maximum power density analysis for irreversible combined Carnot cycles**
KODAL A.
Journal of Physics D: Applied Physics, cilt.32, sa.22, ss.2958-2963, 1999 (SCI-Expanded)
- XXI. **Optimal performance analysis of irreversible regenerative MHD power cycles**
Sahin B., Kodal A., Oktem A. S.
Journal of Physics D: Applied Physics, cilt.32, sa.15, ss.1832-1841, 1999 (SCI-Expanded)
- XXII. **Finite time thermoeconomic optimization for endoreversible refrigerators and heat pumps**
Sahin B., Kodal A.
ENERGY CONVERSION AND MANAGEMENT, cilt.40, ss.951-960, 1999 (SCI-Expanded)
- XXIII. **A comparative performance analysis of irreversible regenerative reheating Joule-Brayton engines under maximum power density and maximum power conditions**
Sahin B., Kodal A., Kaya S. S.
JOURNAL OF PHYSICS D - APPLIED PHYSICS, cilt.31, ss.2125-2131, 1998 (SCI-Expanded)
- XXIV. **Exergy optimization for an endoreversible cogeneration cycle**
Şahin B., Kodal A., Ekmekçi I., Yilmaz T.
ENERGY, cilt.22, ss.551-557, 1997 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Comparative performance evaluations of various optimization functions for irreversible Otto cycles**
Kodal A. I., KODAL A.
Thermal Science and Engineering Progress, cilt.15, 2020 (Scopus)
- II. **NUMERICAL ANALYSES IN SIMILAR CONDITONS WITH COMBUSTION CHAMBERS OF RAMJET ENGINES.**
Yavuz M. A., Kodal A.
ENGINEERING SCIENCE AND TECHNOLOGY, AN INTERNATIONAL JOURNAL, cilt.15, ss.163-182, 2012 (Hakemli Dergi)
- III. **Ecological coefficient of performance (ECOP) optimization for generalized irreversible Carnot heat engines**
Üst Y., Şahin B., Kodal A.
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- IV. **Performance analysis of a two-stage irreversible heat pump under maximum heating load per unit total cost conditions**
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- V. **Maximum power density for an endoreversible Carnot heat engine**
Şahin B., Kodal A., Yavuz H.
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- VI. **A performance analysis for MHD power cycles operating at maximum power density**
Sahin B., Kodal A., Yavuz H.
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- VII. **Efficiency of a joule-brayton engine at maximum power density**
Sahin B., Kodal A., Yavuz H.
Journal of Physics D: Applied Physics, cilt.28, sa.7, ss.1309-1313, 1995 (Scopus)
- VIII. **Steady-state thermodynamic analysis of a combined Carnot cycle with internal irreversibility**
Şahin B., Kodal A.

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IX. An adaptive turbulence filter for decomposition of organized turbulent flows

Brereton G., KODAL A.

Physics of Fluids, cilt.6, sa.5, ss.1775-1786, 1994 (Scopus)

X. A frequency-domain filtering technique for triple decomposition of unsteady turbulent flow

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