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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Newcastle Upon Tyne, School of Engineering , Mechanical Engineering, İngiltere 2017 - 2021

Yüksek Lisans, Sakarya Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 2012 - 2015

Lisans, Bilecik Şeyh Edebali Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye 2008 - 2012

Yabancı Diller

İngilizce, C2 Ustalık

Yaptığı Tezler

Doktora, Fundamental Understanding of Turbulent Combustion of Droplet-Laden Mixtures Using Direct Numerical Simulations, University of Newcastle Upon Tyne, 2021

Yüksek Lisans, Yoğuşmalı kombilerde kullanılan ısı değiştiricisinin sayısal analizi, Sakarya Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2015

Araştırma Alanları

Makina Mühendisliği, Enerji, Akışkanlar Mekaniği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Bilecik Şeyh Edebali Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - Devam Ediyor

Yönetilen Tezler

ÖZEL EROL G., ANTALYA İLİ İÇİN GÜNEŞ ENERJİSİ DESTEKLİ DESALİNASYON SİSTEMİNİN TERMOEKONOMİK ANALİZİ, Yüksek Lisans, B.NUR(Öğrenci), 2023

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Evolution of Displacement Speed Statistics During Head-On Flame-Wall Interaction within Turbulent Boundary Layers**
ÖZEL EROL G., Ahmed U., Chakraborty N.
Combustion Science and Technology, cilt.196, sa.13, ss.1990-2019, 2024 (SCI-Expanded)
- II. **Surface topologies and self interactions in reactive and nonreactive Richtmyer–Meshkov instability**
Bambauer M., Hasslberger J., ÖZEL EROL G., Chakraborty N., Klein M.
Scientific Reports, cilt.13, sa.1, 2023 (SCI-Expanded)
- III. **Effects of water droplet injection on turbulent premixed flame propagation: a direct numerical simulation investigation**
ÖZEL EROL G., Hasslberger J., Chakraborty N., Klein M.
Flow, Turbulence and Combustion, cilt.110, sa.1, ss.105-123, 2023 (SCI-Expanded)
- IV. **Surface Density Function Evolution in Spherically Expanding Flames in Globally Stoichiometric Droplet-laden Mixtures**
Erol G., Hasslberger J., Chakraborty N.
Combustion Science and Technology, cilt.194, sa.1, ss.1-21, 2022 (SCI-Expanded)
- V. **Physical effects of water droplets interacting with turbulent premixed flames: A Direct Numerical Simulation analysis**
Hasslberger J., ÖZEL EROL G., Chakraborty N., Klein M., Cant S.
Combustion and Flame, cilt.229, 2021 (SCI-Expanded)
- VI. **Lewis Number Effects on Flame Speed Statistics in Spherical Turbulent Premixed Flames**
ÖZEL EROL G., Klein M., Chakraborty N.
Flow, Turbulence and Combustion, cilt.106, sa.4, ss.1043-1063, 2021 (SCI-Expanded)
- VII. **Flame self-interactions in globally stoichiometric spherically expanding flames propagating into fuel droplet-mists**
ÖZEL EROL G., Ahmed U., Chakraborty N.
Proceedings of the Combustion Institute, cilt.38, sa.2, ss.3351-3359, 2021 (SCI-Expanded)
- VIII. **Inertial effects on globally stoichiometric spherically expanding turbulent flames propagating in droplet-laden mixtures**
ÖZEL EROL G., Chakraborty N.
Proceedings of the Combustion Institute, cilt.38, sa.2, ss.3379-3387, 2021 (SCI-Expanded)
- IX. **A direct numerical simulation analysis of turbulent V-shaped flames propagating into droplet-laden mixtures**
ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
International Journal of Multiphase Flow, cilt.133, 2020 (SCI-Expanded)
- X. **Statistics of Two-phase Coupling in Turbulent Spherically Expanding Flames in Mono-sized Fuel-droplet Mists**
ÖZEL EROL G., Hasslberger J., Chakraborty N.
Combustion Science and Technology, ss.1-18, 2020 (SCI-Expanded)
- XI. **A Numerical Investigation of the Minimum Ignition Energy Requirement for Forced Ignition of Turbulent Droplet-laden Mixtures**
Papapostolou V., ÖZEL EROL G., Turquand d'Auzay C., Chakraborty N.
Combustion Science and Technology, ss.307-340, 2020 (SCI-Expanded)
- XII. **Propagation of Spherically Expanding Turbulent Flames into Fuel Droplet-Mists**
ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
Flow, Turbulence and Combustion, cilt.103, sa.4, ss.913-941, 2019 (SCI-Expanded)
- XIII. **Edge flame propagation statistics in igniting monodisperse droplet-laden mixtures**
Papapostolou V., Turquand D'Auzay C., ÖZEL EROL G., Chakraborty N.
Physics of Fluids, cilt.31, sa.10, 2019 (SCI-Expanded)
- XIV. **A Direct Numerical Simulation Investigation of Spherically Expanding Flames Propagating in Fuel Droplet-Mists for Different Droplet Diameters and Overall Equivalence Ratios**

- ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
Combustion Science and Technology, cilt.191, sa.5-6, ss.833-867, 2019 (SCI-Expanded)
- XV. **A direct numerical simulation analysis of spherically expanding turbulent flames in fuel droplet-mists for an overall equivalence ratio of unity**
ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
Physics of Fluids, cilt.30, sa.8, 2018 (SCI-Expanded)
- XVI. **Effect of wavy fin usage on thermal performance of heat exchanger used in combi boilers**
Yaşar H., Erol G., Durmaz U., Aydın A., Kiliç S., Engin T.
Thermal Science, cilt.2018, ss.693-700, 2018 (SCI-Expanded)
- XVII. **Performance assessment of an ice rink refrigeration system through advanced exergoeconomic analysis method**
Erol G., AÇIKKALP E., Hepbasli A.
Energy and Buildings, cilt.138, ss.118-126, 2017 (SCI-Expanded)
- XVIII. **Optimum insulation thickness for piping system using exergy and environmental methods**
Özel G., AÇIKKALP E., GÖRGÜN B., YAMIK H., CANER N.
International Journal of Global Warming, cilt.11, sa.1, ss.107-123, 2017 (SCI-Expanded)
- XIX. **Comparative Analysis of Thermoeconomic Evaluation Criteria for an Actual Heat Engine**
Özel G., Açıkkalp E., SAVAŞ A. F., Yamık H.
Journal of Non-Equilibrium Thermodynamics, cilt.41, sa.3, ss.225-235, 2016 (SCI-Expanded)
- XX. **Thermodynamic analysis of diesel engine with sunflower biofuel**
YAMIK H., Ozel G., AÇIKKALP E., İçingür Y.
Proceedings of Institution of Civil Engineers: Energy, cilt.168, sa.3, ss.178-187, 2015 (SCI-Expanded)
- XXI. **Novel thermoenviromental evaluation criteria and comparing them for an actual heat engine**
Özel G., Ackkalp E., SAVAŞ A. F., Yamk H.
Energy Conversion and Management, cilt.106, ss.1118-1123, 2015 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Effects of Mean Inflow Velocity and Droplet Diameter on the Propagation of Turbulent V-Shaped Flames in Droplet-Laden Mixtures**
ÖZEL EROL G., Chakraborty N.
FLUIDS (BASEL), cilt.6, 2020 (ESCI)
- II. **Optimum insulation thickness for cooling applications through exergy analysis and environmental methods**
Daldal B. N., Sarioğlu İ., ÖZEL EROL G., AÇIKKALP E., YAMIK H.
Green Energy and Technology, cilt.PartF2, ss.339-347, 2016 (Scopus)
- III. **Optimum insulation thickness determination using the environmental and life cycle cost analyses based entransy approach**
Özel G., AÇIKKALP E., GÖRGÜN B., YAMIK H., CANER N.
Sustainable Energy Technologies and Assessments, cilt.11, ss.87-91, 2015 (Scopus)
- IV. **Perde Desenli Gövde Borulu Tip Isı Değiştiricilerinin Optimizasyonu Cfd Analizi Ve Deneyisel İncelenmesi**
AYDIN A., ENGİN T., Yurduseven S., ÖZEL G.
Mühendis ve Makina, sa.667, ss.32-40, 2015 (Hakemli Dergi)
- V. **Methods used for evaluating irreversible Brayton cycle and comparing them**
ÖZEL G., AÇIKKALP E., YAMIK H.
INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, cilt.1, sa.3, ss.288-298, 2015 (Hakemli Dergi)

Kitaplar

- I. **Optimum Insulation Thickness for Cooling Applications Through Exergy Analysis and Environmental Methods**

Daldal B. N., Sarioğlu İ., ÖZEL EROL G., AÇIKKALP E., YAMIK H.

Energy, Transportation and Global Warming, Panagiotis Grammelis, Editör, Springer International Publishing, ss.339-347, 2016

Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. **Evolution of Displacement Speed Statistics during Flame-Wall Interaction within Turbulent Boundary Layers**
ÖZEL EROL G., Ahmed U., Chakraborty N.
The International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS), Seul, Güney Kore, 23 - 28 Temmuz 2023, (Tam Metin Bildiri)
- II. **Statistics of two-phase coupling in turbulent spherically expanding flames in mono-sized fuel-droplet mists**
ÖZEL EROL G., Hasslberger J., Chakraborty N.
The International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS), Pekin, Çin, 28 Temmuz - 02 Ağustos 2019
- III. **Surface density function evolution in spherically expanding flames in globally stoichiometric droplet-laden mixtures**
ÖZEL EROL G., Hasslberger J., Chakraborty N.
11th Mediterranean Combustion Symposium, Tenerife, İspanya, 16 - 20 Haziran 2019
- IV. **Lewis number effects on flame speed statistics in spherical turbulent premixed flames**
ÖZEL EROL G., Klein M., Chakraborty N.
11th Mediterranean Combustion Symposium, Tenerife, İspanya, 16 Haziran 2019
- V. **A Direct Numerical Simulation analysis of turbulent V-flames propagating into droplet-laden mixtures with an overall equivalence ratio of unity**
ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
The 9th European Combustion Meeting (ECM 2019), 14 - 17 Nisan 2019
- VI. **Evolution of Spherically Expanding Turbulent Flames in Droplet-Laden Mixtures: A Direct Numerical Simulation Analysis**
ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
37th International Symposium on Combustion, 29 Temmuz - 02 Ağustos 2018
- VII. **Spherically expanding turbulent flames in fuel-droplet mists: A Direct Numerical Simulation analysis**
ÖZEL EROL G., Hasslberger J., Klein M., Chakraborty N.
Turbulence, Heat and Mass Transfer 9, 10 - 13 Temmuz 2018
- VIII. **Determination of the Optimum Insulation Thickness For Cooling Applications Using a Novel Method That Combines Exergy And Environmental Methods**
Daldal B. N., Sarioğlu İ., Özel G., Açikkalp E., Yamik H.
Global Conference on Global Warming (GCGW 2015), Athens, Yunanistan, 24 - 27 Mayıs 2015, (Özet Bildiri)
- IX. **Determination of the Optimum Insulation Thickness For Cooling Applications Using a Novel Method That Combines Exergy And Environmental Method**
BEYZA NUR D., SARIOĞLU İ., ÖZEL G., AÇIKKALP E., YAMIK H.
Global Conference on Global Warming (GCGW 2015), 24 - 27 Mayıs 2015
- X. **Determining Optimum Insulation Thickness of a Building Wall Using an Environmental Impact Approach**
ÖZEL G., AÇIKKALP E., KARAKOÇ T. H., HEPBAŞLI A., AYDIN A.
7th International Exergy, Energy and Environment Symposium (IEEES-7), 27 - 30 Nisan 2015

Burslar

1416-Yurt Dışı Lisansüstü (YLSY) Burs Programı, Milli Eğitim Bakanlığı, 2017 - 2021

Ödüller

Özel Erol G., 2nd Prize for the audio-visual category, Uk Consortium On Turbulent Reacting Flows, Ocak 2019

Özel Erol G., Certificate of Achievement, Newcastle University, Ocak 2019

Özel Erol G., 3rd Prize for the audio-visual category, Uk Consortium On Turbulent Reacting Flows, Ocak 2018

Özel Erol G., 2nd Prize for the Best Poster , 7Th International Exergy, Energy And Environmentsymposium (Ieees-7), Ocak 2015