

Assoc. Prof. Suha Orçun Mert

Personal Information

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Biography

Suha Orçun Mert is an Associate Professor in the Chemical Engineering Department of Yüzüncü Yıl University. He received his BSc, MSc, and PhD from the Chemical Engineering Department of Ege University in 2004, 2006, and 2012 respectively. Some of his research areas include energy, exergy, and exergoeconomic analysis of chemical processes and fuel cell systems.

Education Information

Undergraduate, Anadolu University, Faculty Of Economics, Kamu Yönetimi, Turkey 2014 - 2019

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2006 - 2012

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2004 - 2006

Undergraduate, Ege University, Mühendislik Mimarlık Fakültesi, Kimya Mühendisliği, Turkey 2000 - 2004

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Exergetic Based Multi-Objective Optimization of Selected Fuel Cell Systems, Ege University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2012

Postgraduate, Exergoeconomic Analysis of Pem Fuel Cells For Transportation Applications, Ege University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2006

Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Chemical Process System Engineering, Basic Operations and Thermodynamics, Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2017 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği, 2013 - 2017

Research Assistant, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Kimya Mühendisliği, 2005 - 2013

Research Assistant, Ege University, Faculty Of Engineering, Kimya Mühendisliği, 2005 - 2012

Academic and Administrative Experience

Van Yüzüncü Yıl University, Yükseköğretim Kalite Kurulu (Yökak) , Dış Değerlendirici, 2018 - Continues
Van Yüzüncü Yıl University, Mühendislik Fakültesi, Fakülte Kurulu Doçent Temsilcisi, 2018 - Continues
Van Yüzüncü Yıl University, Teknoloji Transfer Ofisi (Tto), 2018 - Continues
Van Yüzüncü Yıl University, Eğitim-Öğretim Koordinatörlüğü Üyesi, 2018 - Continues
Van Yüzüncü Yıl University, Öğretim Üyeliğine Yükseltme Ve Atanma Yönergesi Değişiklik Komisyonu, 2018 - 2018
Van Yüzüncü Yıl University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2018 - 2018
Van Yüzüncü Yıl University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2018 - 2018
Van Yüzüncü Yıl University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2018 - 2018
Van Yüzüncü Yıl University, Eğitim Komisyonu, 2015 - 2018
Van Yüzüncü Yıl University, Mühendislik Fakültesi, 2015 - 2018
Van Yüzüncü Yıl University, Kamu İç Kontrol Standartlarına Uyum Eylem Planı Hazırlama Komisyonu, 2016 - 2017
Van Yüzüncü Yıl University, Kimya Mühendisliği Bölümü, 2013 - 2016
Van Yüzüncü Yıl University, Bağlı Değerlendirme Komisyonu, 2014 - 2015

Courses

Mühendislik Termodinamiği, Undergraduate, 2017 - 2018
Kimya Mühendisliğine Giriş, Undergraduate, 2017 - 2018, 2015 - 2016
Kimya Mühendisliği Tasarımı II, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Mühendislik Termodinamiği II, Undergraduate, 2017 - 2018
Kimya Mühendisliği Tasarımı I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Kimya Mühendisliğinde Matematiksel Modelleme, Postgraduate, 2017 - 2018
Bilgisayar Destekli Teknik resim, Undergraduate, 2017 - 2018
Toplam Kalite Yönetimi, Undergraduate, 2017 - 2018
Mühendislikte Bilgisayar Destekli İleri Nümerik Analiz, Postgraduate, 2016 - 2017
Ayrırma işlemleri, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Kimyasal Süreçlerin Ekserji Analizi, Postgraduate, 2017 - 2018, 2016 - 2017
Kimya Mühendisliğinde İleri Simülasyon ve Programlama, Postgraduate, 2016 - 2017
Kimya Mühendisliğinde Matematiksel Modelleme, Postgraduate, 2016 - 2017
Bilimsel Araştırma ve Yayın Teknikleri, Postgraduate, 2016 - 2017
Mühendislik Termodinamiği 1, Undergraduate, 2016 - 2017, 2015 - 2016
Mühendislik Termodinamiği 2, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Termodinamik, Undergraduate, 2016 - 2017
Bilimsel Araştırma ve Yayın Teknikleri, Postgraduate, 2015 - 2016
Kimya Mühendisliğinde Matematiksel Modelleme, Postgraduate, 2015 - 2016, 2014 - 2015
Bilgisayara Giriş I, Undergraduate, 2015 - 2016
Kimya Mühendisliğinde Optimizasyon, Undergraduate, 2015 - 2016
Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2014 - 2015
Mühendislikte Bilgisayar Destekli İleri Nümerik Analiz, Postgraduate, 2014 - 2015
Lisans Araştırma Projesi, Undergraduate, 2014 - 2015
Yeni Ayrırma Teknikleri, Undergraduate, 2014 - 2015
Kimya Mühendisliğinde İleri Simülasyon ve Programlama, Undergraduate, 2014 - 2015
Kimyasal Süreçlerin Ekserji Analizi, Postgraduate, 2014 - 2015
Kimya Mühendisliği Laboratuvarı III, Undergraduate, 2014 - 2015

Advising Theses

- Mert S. O., Yerel Benzinin Oktan Değerinin Selektif Organik Bileşenler Katılarak Geliştirilmesi, Postgraduate, K.Moffaq(Student), 2018
- Mert S. O., Kuzey Irak Yerel Akaryakıtlarında Oksidatif Kükürtsüzleştirme ile Kükürt Oranı Azaltma İşleminin Performansı, Postgraduate, N.Qasim(Student), 2017
- Mert S. O., Yakıt Pilleri İçin Akış Kanallarının 3D Modellenmesi ve Performans Analizi, Postgraduate, M.Mücahit(Student), 2017
- Mert S. O., Çimento Üretiminde Döner Fırın Prosesinin Enerji, Ekserji ve Eksergoekonomik Analizi, Postgraduate, H.ŞAHİN(Student), 2017
- Mert S. O., Boru Kovan Tipi Isı Değiştirgeçlerinin Simülasyon Yoluyla Eksergetik Optimizasyonu, Postgraduate, M.Utku(Student), 2016
- Mert S. O., Formik Asit Yakıt Pili Sisteminin Eksergoekonomik Parametrik Ve Duyarlılık Analizi, Postgraduate, A.REİS(Student), 2016

Jury Memberships

- Doctoral Examination, Onur Uludağ Doktora Yeterlilik Sınavı, Kahramanmaraş Sütçü İmam , November, 2017
- Post Graduate, Sinem Armay Yüksek Lisans Savunması, Ege Üniversitesi, July, 2017
- Post Graduate, Hilal Najeeb HUSSEIN YL Savunma Jurisi, Van Yüzüncü Yıl Üniversitesi, June, 2017
- Post Graduate, Onur Uludağ, Ege Üniversitesi, August, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A complementary study on novel PdAuCo catalysts: Synthesis, characterization, direct formic acid fuel cell application, and exergy analysis**
Kivrak H., ATBAS D., ALAL O., Cogenli M. S., Bayrakceken A., Mert S. O., Sahin O.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.48, pp.21886-21898, 2018 (SCI-Expanded)
- II. **Exergetic performance analysis of a solar power system (SPS) in a high plateau**
Genc N., Mert S. O., REIS A.
INTERNATIONAL JOURNAL OF EXERGY, vol.22, no.2, pp.125-138, 2017 (SCI-Expanded)
- III. **Exergoeconomic Distillation Sequencing by Multi-objective Optimization through a Hybrid Genetic Algorithm**
OZCELIK Y., Mert S. O.
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.30, no.3, pp.305-315, 2016 (SCI-Expanded)
- IV. **Experimental performance investigation of a shell and tube heat exchanger by exergy based sensitivity analysis**
Mert S. O., Reis A.
HEAT AND MASS TRANSFER, vol.52, no.6, pp.1117-1123, 2016 (SCI-Expanded)
- V. **Application of electrodialysis for recovering sodium carbonate and sodium bicarbonate from Lake Van**
Mert S. O.
Desalination and Water Treatment, vol.57, no.9, pp.3940-3946, 2016 (SCI-Expanded)
- VI. **Exergoeconomic analysis of a direct formic acid fuel cell system**
Mert S. O., REIS A.
International Journal of Hydrogen Energy, vol.41, no.4, pp.2981-2986, 2016 (SCI-Expanded)
- VII. **Exergoeconomic performance investigation of a batch ethylene glycol recovery system**
Mert S. O., ERSÖZ E.
INTERNATIONAL JOURNAL OF EXERGY, vol.19, no.2, pp.199-209, 2016 (SCI-Expanded)

- VIII. **Exergetic simulation and performance assessment of 1-1 shell and tube heat exchangers**
Badak M. U., Mert S. O.
International Journal of Exergy, vol.21, no.3, pp.261-276, 2016 (SCI-Expanded)
- IX. **Performance Assessment of a Batch Distillation System**
Mert S. O., Badak M. U.
International Journal of Thermodynamics, vol.18, no.2, pp.143-148, 2015 (SCI-Expanded)
- X. **Performance assessment of a direct formic acid fuel cell system through exergy analysis**
REIS A., Mert S. O.
International Journal of Hydrogen Energy, vol.40, no.37, pp.12776-12783, 2015 (SCI-Expanded)
- XI. **Comparative assessment and optimization of fuel cells**
Mert S. O., Ozcelik Z., Dincer I.
International Journal of Hydrogen Energy, vol.40, no.24, pp.7835-7845, 2015 (SCI-Expanded)
- XII. **Exergoeconomic based multi-objective optimisation of a solid oxide fuel cell system**
Mert S. O., Özçelik Z., Dincer I.
International Journal of Exergy, vol.14, no.4, pp.413-429, 2014 (SCI-Expanded)
- XIII. **Multi-objective optimization of a direct methanol fuel cell system using a genetic-based algorithm**
Mert S. O., Özçelik Z.
International Journal of Energy Research, vol.37, no.10, pp.1256-1264, 2013 (SCI-Expanded)
- XIV. **Performance investigation of a transportation PEM fuel cell system**
Mert S., Dincer I., Ozcelik Z.
International Journal of Hydrogen Energy, vol.37, no.1, pp.623-633, 2012 (SCI-Expanded)
- XV. **Multi-objective optimization of a vehicular PEM fuel cell system**
Mert S. O., Ozcelik Z., ÖZÇELİK Y., Dincer I.
APPLIED THERMAL ENGINEERING, vol.31, no.13, pp.2171-2176, 2011 (SCI-Expanded)
- XVI. **Exergoeconomic analysis of a vehicular PEM fuel cell system**
Mert S., Dincer I., Ozcelik Z.
Journal of Power Sources, vol.165, no.1, pp.244-252, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of various flow field designs for PEM fuel cells used in vehicular systems through 3D modelling**
Toprak M. M., Kök C., Mert S. O.
Research on Engineering Structures and Materials, vol.8, no.1, pp.179-203, 2022 (Scopus)
- II. **LCA OF A MASS HOUSING AREA FROM AN ENERGY BASED ECONOMY PERSPECTIVE**
Mert Y., Mert S. O.
INTERNATIONAL JOURNAL OF CONTEMPORARY ECONOMICS AND ADMINISTRATIVE SCIENCES, vol.7, pp.178-193, 2017 (ESCI)
- III. **LCA OF A MASS HOUSING AREA FROM AN ENERGY BASED ECONOMY PERSPECTIVE**
Mert Y., Mert S. O.
INTERNATIONAL JOURNAL OF CONTEMPORARY ECONOMICS AND ADMINISTRATIVE SCIENCES, vol.7, pp.178-193, 2017 (ESCI)
- IV. **ECONOMIC IMPACT OF EXERGY EFFICIENT BUILDING BLOCK DESIGN**
Mert Y., Saygin N., Mert S. O.
INTERNATIONAL JOURNAL OF CONTEMPORARY ECONOMICS AND ADMINISTRATIVE SCIENCES, vol.7, pp.1-12, 2017 (ESCI)
- V. **ECONOMIC IMPACT OF EXERGY EFFICIENT BUILDING BLOCK DESIGN**
Mert Y., SAYGIN N., Mert S. O.
INTERNATIONAL JOURNAL OF CONTEMPORARY ECONOMICS AND ADMINISTRATIVE SCIENCES, vol.7, pp.1-12, 2017 (ESCI)

Books & Book Chapters

- I. **Multi-objective Optimization of Distillation Sequences Using a Genetic-Based Algorithm**
Mert S. O., OZCELIK Y.
in: Exergy for A Better Environment and Improved Sustainability 2, Fethi Aloui, Ibrahim Dincer, Editor, Springer, London/Berlin , Cham, pp.751-765, 2018
- II. **Exergetic Simulation and Performance Assessment of 1-1 Shell and Tube Heat Exchangers**
Mert S. O., Badak M. U.
in: Exergy for A Better Environment and Improved Sustainability 1, Fethi Aloui, Ibrahim Dincer, Editor, Springer, London/Berlin , Cham, pp.969-982, 2018
- III. **Parametric Exergetic Investigation of a Direct Formic Acid Fuel Cell System**
Mert S. O., REIS A.
in: Exergy for A Better Environment and Improved Sustainability 1, Fethi Aloui, Ibrahim Dincer, Editor, Springer, London/Berlin , Chan, pp.983-994, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Exergetic performance investigation of a cement production facility**
Şahin H., Mert S. O., OZCELIK Z.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.143
- II. **YARI PAMUK YARI POLİ ETİLEN YENİ NESİL KOMPOZİT KUMAŞLARIN BALİSTİK ÖZELLİKLERİNİN İYİLEŞTİRİLMESİ VE GELİŞTİRİLMESİ**
Mert S. O., YAVUZDOĞAN U., Yavuz H. İ.
13 Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7219
- III. **Exergy Analysis of a Campus Housing area in Cold Climate**
Mert Y., Mert S. O.
The 4th International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 2 - 06 May 2018, pp.1
- IV. **EXERGoeconomic ANALYSIS OF AN URBAN AREA**
Mert Y., Mert S. O.
The 4th International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 2 - 06 May 2018, pp.1
- V. **MULTI-OBJECTIVE EXERGoeconomic DESIGN ASSESSMENT OF A SHELL AND TUBE HEAT EXCHANGER USING A HYBRID GENETIC ALGORITHM**
Mert S. O., OZCELIK Y.
The 4th International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 2 - 06 May 2018, pp.1
- VI. **Exergetic Comparison of Various Flow Patterns in PEMFCs**
Mert S. O., Toprak M. M.
3rd International Hydrogen Technologies Congress (IHTEC-2018), Antalya, Turkey, 15 - 18 March 2018, vol.1, no.1, pp.68
- VII. **Modelling and Simulation of Conjugate Heat Transfer in Comsol Multiphysics for Electronic Chip Cooling**
Badak M. U., Aktaş N., Mert S. O.
The International Iğdır Symposium (IĞDIRSEMP2017), Iğdır, Turkey, 9 - 11 October 2017, pp.1
- VIII. **3D Modeling and Comparison of Flow Field Patterns of a PEM Fuel Cell**
Toprak M. M., Mert S. O., Badak M. U., Yavuz H. İ.
International Multidisciplinary Congress of Eurasia (IMCOFE), Roma, Italy, 23 - 25 August 2017, vol.3, pp.336-351
- IX. **Exergoeconomic Analysis of A Solar Power System in High Altitude**

Mert S. O., Genç N.

International Multidisciplinary Congress of Eurasia (IMCOFE), Roma, Italy, 23 - 25 August 2017, pp.488

X. Life Cycle Assessment of An Urban Settlement in Cold Climate

Mert Y., Mert S. O.

International Multidisciplinary Congress of Eurasia (IMCOFE), Roma, Italy, 23 - 25 August 2017, pp.489

XI. Modeling Moisture Change During Convection Cooking of Chicken Patties Using Comsol Multiphysics

Badak M. U., Badak N., Mert S. O.

International Advanced Technology Symposium (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.1221

XII. Parametric Investigation of 3D Geometrical Design of PEM Fuel Cells

Toprak M. M., Badak M. U., Mert S. O.

2. Uluslararası Hidrojen Teknolojileri Kongresi - 2017, Adana, Turkey, 15 - 18 March 2017, pp.88

XIII. Farklı Geometrilerdeki Boru-Kovan Tipi Isı Değiştiricilerin Modellenmesi ve Performans Analizi

Badak M. U., Mert S. O.

The International Conference on Engineering Technology and Applied Sciences, Afyon, Turkey, 21 - 26 April 2016, pp.1

XIV. A. Reis, "Performance Assessment of Formic Acid Fuel Cell System Through Exergy Analysis

Mert S. O.

7th International Exergy, Energy and Environment Symposium (IEEES7-2015), Valenciennes, France, 27 - 30 April 2015, pp.1

XV. Exergetic Simulation and Performance Assessment of 1-2 Shell and Tube Heat Exchangers

Mert S. O., Badak M. U.

7th International Exergy, Energy and Environment Symposium (IEEES7-2015), Valenciennes, France, 27 - 30 April 2015, pp.1

XVI. Multi-Objective Optimization of Distillation Sequences Using a Genetic Based Algorithm

Mert S. O.

7th International Exergy, Energy and Environment Symposium (IEEES7-2015), Valenciennes, France, 27 - 30 April 2015, pp.1

XVII. Yakıt Pili Sistemlerinin Çok Amaçlı Optimizasyon ile Karşılaştırılması", 11.Ulusal Kimya Mühendisliği Kongresi

Mert S. O.

11.Ulusal Kimya Mühendisliği Kongresi, UKMK-11, Eskişehir, Turkey, 2 - 05 September 2014, pp.1

XVIII. A. Reis, Boru kovan tipi ısı değiştirgeçlerinin performansının parametrik olarak ekserji analizi yoluyla bulunması ve optimum şartların belirlenmesi

Mert S. O.

11.Ulusal Kimya Mühendisliği Kongresi, UKMK-11, Eskişehir, Turkey, 2 - 05 September 2014, pp.1

XIX. Exergy Analysis of An ethylene glycol recovery sytem using batch distillation

Mert S. O.

The Sixth International Exergy, Energy and Environment Symposium, Rize, Turkey, 1 - 04 July 2013, pp.1

XX. Exergoeconomic analysis of ethylene glycol recovery system using batch distillation

Mert S. O.

7th International Ege Energy Symposium & Exhibition, Uşak, Turkey, 18 - 20 June 2013, pp.1

XXI. Genetic Algorithm Based Multi-Objective Optimization For Fuel Cell Applications

Mert S. O.

The 2nd International Conference on Computation For Science And Technology, Niğde, Turkey, 9 - 11 July 2012, pp.1

XXII. Multi-Objective Optimization of a Solid Oxide Fuel Cell (SOFC) System

Mert S. O.

VI. International Ege Energy Symposium and Exhibition (IEESE-VI), İzmir, Turkey, 28 - 30 June 2012, pp.1

XXIII. Exergy Analysis Of A Direct Methanol Fuel Cell System

Mert S. O.

10th International Conference On Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011, pp.1

- XXIV. **Multi-objective optimization of a PEM fuel cell system**
Mert S. O.
13th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction (PRES2010, CHISA2010), Prague, Czech Republic, 28 August - 01 September 2010, pp.1
- XXV. **Modeling and Simulation Application of a Triple-Pressure Heat Recovery Steam Generator**
Mert S. O.
The Third International Energy, Exergy and Environment Symposium, Evora, Portugal, 1 - 05 July 2007, pp.1
- XXVI. **Performance Investigation of a Ballard PEM Fuel Cell System for Transportation Vehicles**
Mert S. O.
The Third International Exergy, Energy and Environment Symposium, Evora, Portugal, 1 - 05 July 2007, pp.1
- XXVII. **Kimya Mühendisliği Bağlı Değerlendirme Sisteminin Uygulanması ve Sonuçlarının Değerlendirilmesi**
Mert S. O.
(UMES) Ulusal Mühendislik ve Eğitim Sempozyumu, Kocaeli, Turkey, 20 - 22 June 2007, pp.1
- XXVIII. **Exergoeconomic Analysis of a PEM Fuel Cell System for Vehicles**
Mert S. O.
The Second International Green Energy Conference, Oshawa, Ontario, Canada, 25 - 29 June 2006, pp.1
- XXIX. **A Thermoeconomic Analysis Application on the Natural Gas Combined Cycle Power Plant**
Mert S. O.
The Second International Energy, Exergy and Environment Symposium, Kos, Greece, 3 - 07 July 2005, pp.1
- XXX. **Bir Doğalgaz Kombine Çevrim Santralinde Enerji ve Ekserji Analizi**
Mert S. O.
II. Ulusal Ege Enerji Sempozyumu ve Sergisi, Kütahya, Turkey, 1 - 05 July 2004, pp.1

Supported Projects

- Selçuk L., Sağlam Selçuk A., Sağlam Özdamar H., Mert S. O., Project Supported by Higher Education Institutions, Soğuk İklim Bölgeleri Kullanımı için Yenilikçi Güneş Destekli Toprak Kaynaklı Isı Pompası tasarımı ve Uygulanması: Van YYÜ Örneği, 2019 - 2020
- Toktaş O., Kotan M. Ç., Mert S. O., Şendağ S., Özdemir A., ÖZMEN V., PEKŞEN Ç., Project Supported by Higher Education Institutions, Uluslararası katılımlı meme kanserinde güncel tedaviler sempozyumu, 2019 - 2019
- Mert S. O., YAVUZDOĞAN U., Project Supported by Higher Education Institutions, Yarı Pamuk Yarı Poli Etilen Yeni Nesil Kompozit Kumaşların Balistik Özelliklerinin İyileştirilmesi ve Geliştirilmesi, 2018 - 2019
- Mert S. O., Project Supported by Higher Education Institutions, Boru kovan tipi ısı değiştirgeçlerinin hibrit genetik algoritma kullanılarak çok amaçlı optimize edilmesi, 2018 - 2018
- Demir Kıvrak H., Aktaş N., Şahan T., Zengin A., Çelik Kazıcı H., Aldemir A., Alpaslan D., Erşen Dudu T., Ulaş B., Uzun Y., et al., Project Supported by Higher Education Institutions, 13. Ulusal Kimya Mühendisliği Kongresi, 2018 - 2018
- Mert S. O., Project Supported by Higher Education Institutions, PEM yakıt pilleri için geliştirilen akış kanallarının 3 boyutlu simülasyon karşılaştırması, 2017 - 2018
- Mert S. O., TUBITAK Project, Pem Yakıt Pilleri İçin Yenilikçi Akış Plakalarının Simülasyon Yoluyla Tasarımı Ve Enerji-Ekserji-Eksergoekonomik (Eee) Analizi, 2015 - 2017
- Mert S. O., Badak M. U., ÖZÇELİK Y., REİS A., Project Supported by Higher Education Institutions, 1-2 geçişli boru kovan tipi ısı değiştirgeçlerinde bütünleşik ısı transfer katsayısının tahmin edilmesine ve teorik-deneyisel olarak belirlenmesine yönelik program geliştirilmesi, 2015 - 2017
- Mert Y., Mert S. O., Kemeç S., Project Supported by Higher Education Institutions, Soğuk iklim bölgesindeki bir konut yerleşim alanının enerji ve (LCA) yaşam döngüsü analizi: YYÜ Kampüs TOKİ Lojmanları, 2015 - 2017
- Mert S. O., TUBITAK Project, Geçiş Metali Çekirdeği Üzerinde (Au, Ti, V, Mn, Fe, Co, Ni, Zn) Pd Kabuklandırılması ile Çok Metalli Çekirdek/Kabuk Katalizörlerinin Nano Tasarım ile Sentezi, Karakterizasyonu ve DFAYP Uygulamaları, 2014 - 2017
- Mert S. O., Project Supported by Other Private Institutions, Isı Değiştirgeçleri Simülasyonu, 2015 - 2016
- Mert S. O., TUBITAK Project, COMSOL PROGRAMI ÜZERİNDE DİSTİLASYON KOLONU TASARIMI, 2015 - 2016

Mert S. O., TUBITAK Project, • Sürekli ve Kesikli Tip Distilasyon Kolonlarında Çalışma Parametrelerinin Ekserji Analizi Yoluyla Enerji Etkin Optimizasyonu, 2014 - 2015
Mert S. O., Project Supported by Other Private Institutions, Ege Üniversitesi Kimya Mühendisliği-Herkim Sanayi İşbirliği Projesi, "Atık Etilen Glikol Karışımının Saflaştırılması Pilot Üretim Projesi, 2010 - 2011

Activities in Scientific Journals

Research on Engineering Structures and Materials (RESM) , Special Issue Editor, 2019 - Continues
Research on Engineering Structures & Materials (RESM), Advisory Committee Member, 2016 - 2016

Memberships / Tasks in Scientific Organizations

Kimya Mühendisleri Odası, Member, 2010 - Continues

Scientific Refereeing

Heat and Mass Transfer (HAMT), SCI Journal, March 2019
Energy (EGY), SCI Journal, February 2019
International Journal of Contemporary Economics and Administrative Sciences (IJCEAS), Other Indexed Journal, January 2019
International Journal of Hydrogen Energy (IJHE), SCI Journal, December 2018
Energy (EGY), SCI Journal, December 2018
Journal of Cleaner Production (JCLEPRO), SCI Journal, December 2018
Journal of Cleaner Production (JCLEPRO), SCI Journal, November 2018
Chemical Engineering Research and Design (CHERD), SCI Journal, June 2018
Heat and Mass Transfer (HAMT), SCI Journal, May 2018
Heat and Mass Transfer (HAMT), SCI Journal, May 2018
Energy (EGY), SCI Journal, May 2018
Energy (EGY), SCI Journal, April 2018
International Journal of Green Energy (IJGE), SCI Journal, March 2018
Energy (EGY), SCI Journal, March 2018
Energy (EGY), SCI Journal, March 2018
Energy (EGY), SCI Journal, March 2018
Heat and Mass Transfer (HMT), SCI Journal, March 2018
Energy (EGY), SCI Journal, December 2017
Heat and Mass Transfer (HAMT), SCI Journal, December 2017
Energy (EGY), SCI Journal, December 2017
Energy (EGY), SCI Journal, December 2017
Energy (EGY), SCI Journal, May 2017
Energy (EGY), SCI Journal, February 2017
Energy (EGY), SCI Journal, October 2016
Energy (EGY), SCI Journal, August 2016
Research on Engineering Structures and materials (RESM), Other Indexed Journal, July 2016
Energy (EGY), SCI Journal, June 2016
Energy (EGY), SCI Journal, June 2016
Energy (EGY) , SCI Journal, May 2016
Energy (EGY), SCI Journal, March 2016
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Scientific Research / Working Group Memberships

Modelleme ve Simülasyon Araştırma Grubu, VAN YÜZÜNCÜ YIL ÜNİVERSİTESİ, Türkiye, www.modsimlab.com, 2014 - 2016

Metrics

Publication: 57
Citation (WoS): 204
Citation (Scopus): 220
H-Index (WoS): 9
H-Index (Scopus): 8

Congress and Symposium Activities

The 4th International Conference on Engineering and Natural Sciences (ICENS), Session Moderator, Kyiv, Ukraine, 2018
3rd International Hydrogen Technologies Congress (IHTEC-2018), Session Moderator, Antalya, Turkey, 2018
Summer Course on Exergy and its Applications, Invited Speaker, Eskişehir, Turkey, 2006

Scholarships

Invited Researcher, University, 2006 - Continues