

Assoc. Prof. TOLGA PIRASACI

Personal Information

Office Phone: [+90 312 582 3401](tel:+903125823401)

Email: pirasaci@gazi.edu.tr

Web: <http://w3.gazi.edu.tr/~pirasaci/>

Address: Gazi Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü 06570 Maltepe/Ankara

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 2002 - 2009

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1994 - 1999

Dissertations

Doctorate, Çıkıntılı ısı kaynakları bulunan bir kanalda karışık konveksiyon ile ısı transferinin laminar ve türbülanslı akış şartlarında deneysel ve sayısal analizi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2009

Postgraduate, Güneş enerjisi ile çalışan, stirling motorlu elektrik enerjisi üretim sistemi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2002

Research Areas

Mechanical Engineering, Renewable Energy Systems, Energy storage technologies, Solar energy, Hydrogen Technologies and Fuel Cells , Thermodynamics, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics, Thermal Systems, Thermal machines

Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2020 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2019 - 2020

Lecturer PhD, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2011 - 2019

Research Assistant, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2000 - 2011

Courses

INTRODUCTION to NUMERICAL ANALYSIS, Undergraduate, 2016 - 2017, 2017 - 2018

THERMODYNAMICS II, Undergraduate, 2016 - 2017, 2017 - 2018

AKIŞKANLAR MEKANİĞİNDE SAYISAL YÖNTEMLER, Postgraduate, 2017 - 2018

ENERGY ENGINEERING, Undergraduate, 2016 - 2017, 2017 - 2018

THERMODYNAMICS I, Undergraduate, 2016 - 2017, 2017 - 2018

ISIL ÇEVRE MÜHENDİSLİĞİ, Undergraduate, 2016 - 2017, 2017 - 2018

MÜHENDİSLİKTE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2016 - 2017, 2017 - 2018

İLETİM İLE ISI AKTARIMI, Postgraduate, 2016 - 2017

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

- I. **Investigation of phase state and heat storage form of the phase change material (PCM) layer integrated into the exterior walls of the residential-apartment during heating season**
PIRASACI T.
ENERGY, vol.207, 2020 (Journal Indexed in SCI)
- II. **Non-uniform, multi-stack solid oxide fuel cell (SOFC) system design for small system size and high efficiency**
PIRASACI T.
JOURNAL OF POWER SOURCES, vol.426, pp.135-142, 2019 (Journal Indexed in SCI)
- III. **Influence of design on performance of a latent heat storage system at high temperatures**
PIRASACI T., Wickramaratne C., Moloney F., Goswami D. Y., Stefanakos E.
APPLIED ENERGY, vol.224, pp.220-229, 2018 (Journal Indexed in SCI)
- IV. **Hydrodynamic design of an enclosed Horizontal BioReactor (HBR) for algae cultivation**
PIRASACI T., Manisali A. Y., Dogaris I., Philippidis G., Sunol A. K.
ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS, vol.28, pp.57-65, 2017 (Journal Indexed in SCI)
- V. **Dynamics of phase change in a vertical PCM capsule in the presence of radiation at high temperatures**
PIRASACI T., Wickramaratne C., Moloney F., Goswami D. Y., Stefanakos E.
APPLIED ENERGY, vol.206, pp.498-506, 2017 (Journal Indexed in SCI)
- VI. **Influence of design on performance of a latent heat storage system for a direct steam generation power plant**
PIRASACI T., Goswami D. Y.
APPLIED ENERGY, vol.162, pp.644-652, 2016 (Journal Indexed in SCI)
- VII. **INVESTIGATION OF LAMINAR MIXED CONVECTION HEAT TRANSFER FROM ARRAYS OF PROTRUDED HEAT SOURCES**
PIRASACI T., Sivrioglu M.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.4, pp.765-773, 2012 (Journal Indexed in SCI)
- VIII. **Experimental investigation of laminar mixed convection heat transfer from arrays of protruded heat sources**
PIRASACI T., Sivrioglu M.
ENERGY CONVERSION AND MANAGEMENT, vol.52, no.5, pp.2056-2063, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Investigation of laminar natural convection heat transfer within tubular daylighting devices for winter conditions**
PIRASACI T.
JOURNAL OF BUILDING ENGINEERING, vol.4, pp.52-59, 2015 (Journal Indexed in ESCI)
- II. **An experimental study on the mixed convection heat transfer over a heated horizontal surface in a partial enclosure**
PIRASACI T., SIVRİOĞLU M.
Gazi Üniversitesi Fen Bilimleri Dergisi, vol.17, no.4, pp.79-88, 2004 (Other Refereed National Journals)
- III. **Computer aided analysis of automotive air conditioners**
PIRASACI T., SIVRİOĞLU M.
Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.2, pp.465-476, 2001 (Other Refereed National Journals)

Books & Book Chapters

- I. **Isıl Çevre Mühendisliği - Isıtma, Soğutma, Havalandırma ve İklimlendirme Temel Hesapları**
PIRASACI T., SİVRİOĞLU M.
NOBEL Akademik Yayıncılık, Ankara, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Yapay Sinir Ağları Tabanlı Kanat Optimizasyonu**
DAM B., PIRASACI T.
III. Ulusal Mühendislikte Bilimsel ve Mesleki Çalışmalar Kongresi (UMUH BİLMES 2020), Turkey, 12 - 15 December 2020
- II. **Development of a Computational Fluid Dynamics (CFD) Model of a Full-Scale Oxidation Ditch Incorporating Activated Sludge Model (ASM)-1**
Pierre K. C. , Tejada Martinez A. E. , PIRASACI T., Rathore K., Driscoll A., Cogswell K., Sunol A., Iranipour G., Mulford L.
World Environmental and Water Resources Congress 2020, 17 - 21 May 2020, pp.225-236
- III. **Annual thermal performance analysis of a residential apartment incorporated with PCM-wallboard**
Özçelik A., Şahin M. İ. , PIRASACI T.
4th International Conference on Innovations and Emerging Trends in Mechanical Engineering, India, 26 - 27 March 2019
- IV. **Simple design model for a Direct Steam Generation (DSG) power plant with PCM storage**
PIRASACI T.
The 14th International Conference on Energy Storage, Adana, Turkey, 25 - 28 April 2018
- V. **Residence Time Analysis and Unsteady Flow Effects in an Oxidation Ditch**
Pierre K. C. , Sinha N., PIRASACI T., Zhang J., Iranipour G., Mulford L., Sunol A., Tejada-Martinez A. E.
18th Annual World Environmental and Water Resources Congress of the Environmental-and-Water-Resources-Institute (EWRI), Minnesota, United States Of America, 3 - 07 June 2018, pp.303-311
- VI. **Advanced Models of Wastewater Plants through Computational Fluid Dynamics**
PIRASACI T., Cogswell K., Driscoll A., Rathore K., Sunol A., Iranipour G., Mulford L.
Florida Water Resources Conference, West Palm Beach, United States Of America, 23 - 26 April 2017
- VII. **Experimental study on thermal storage performance of cylindrically encapsulated PCM in a cylindrical storage tank with axial flow**
Wickramaratne C., Francesca M., PIRASACI T., Kamal R., Goswami Y. D. , Elias S., Dhau J.
Power and Energy Conference, Charlotte, North Carolina, United States Of America, 26 - 30 June 2016
- VIII. **Farklı Tipte Modellenmiş Güneş Duvarlarının Isıl Performansının Sayısal Olarak İncelenmesi**
DOĞAN A., PIRASACI T.
Ulusal İklimlendirme Kongresi, İKLİM 2011, Turkey, 18 - 20 November 2011
- IX. **Çıkıntılı Ayırık Isıtıcılara Sahip Dikdörtgen Kesitli Bir Kanalda Laminer Karışık Konveksiyonla Isı Transferinin Deneysel ve Sayısal İncelenmesi**
PIRASACI T., SİVRİOĞLU M.
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 24 - 27 June 2009
- X. **Bina Cephelelerinde Yalıtım Yerine Trombe Duvar Kullanımının İncelenmesi**
DOĞAN A., PIRASACI T.
Ulusal İklimlendirme Kongresi, İKLİM2007, Turkey, 15 - 18 November 2007
- XI. **Değişik Isı Akılı Ayırık Isıtıcılı Dikdörtgen kesitli Bir Kanalda Laminer Karışık Konveksiyonla Isı Transferinin Deneysel İncelenmesi**
PIRASACI T., SİVRİOĞLU M.
16. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 30 May - 02 June 2007
- XII. **Yüksek Konsantrasyonlu Sabit Üç Yansıtıcı Güneş Kolektörü**

PIRASACI T., SİVRİOĞLU M.

Güneş Enerjisi Sistemleri Sempozyumu ve Sergisi, Turkey, 24 - 25 June 2005

Citations

Total Citations (WOS):83

h-index (WOS):4