

Asst. Prof. Muhammet Kaan YEŞİLYURT

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International Researcher IDs

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Publons / Web Of Science ResearcherID: S-8529-2016

ScopusID: 57197852017

Yoksis Researcher ID: 229591

Education Information

- I. Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2015 - 2023
- II. Undergraduate, Ataturk University, Edebiyat Fakültesi, İngiliz Dili ve Edebiyatı, Turkey 2018 - 2021
- III. Undergraduate, Ataturk University, Açıköğretim Fakültesi, Sosyoloji, Turkey 2017 - 2021
- IV. Undergraduate, Anadolu University, Open Education Faculty, Department Of Management Information Systems, Turkey 2017 - 2020
- V. Associate Degree, Ataturk University, Pasinler Meslek Yüksekokulu, Bilgisayar Teknolojileri, Turkey 2017 - 2019
- VI. Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2011 - 2015
- VII. Undergraduate, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1999 - 2003

Foreign Languages

- I. English, C2 Mastery
- II. Spanish, B1 Intermediate

Dissertations

- I. Postgraduate, İKİ FAZLI AKIŞLARDA KONİK YAYLARIN BORU İÇİ ISI TRANSFERİ VE AKIŞ KARARSIZLIĞI ÜZERİNDEKİ ETKİLERİNİN DENEYSEL İNCELENMESİ, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2015

Research Areas

Mechanical Engineering, Thermodynamics, Engineering and Technology

Academic Titles / Tasks

- I. Lecturer, Ataturk University, Teknik Bilimler Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2020 - Continues
- II. Lecturer, Ataturk University, Pasinler Meslek Yüksekokulu, Elektrik ve Enerji, 2015 - 2020

Academic and Administrative Experience

- I. Curriculum Preparation Committee Member, Ataturk University, Teknik Bilimler Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2022 - Continues
- II. Atatürk Üniversitesi, Pasinler Meslek Yüksekokulu, 2016 - 2017

Courses

- I. Elektrik Bilgisi, Associate Degree, 2023 - 2024, 2022 - 2023
- II. Temel İspanyolca, Undergraduate, 2023 - 2024
- III. Makine Elemanları, Associate Degree, 2023 - 2024, 2022 - 2023, 2020 - 2021
- IV. Modern Üretim Yöntemleri, Associate Degree, 2022 - 2023, 2021 - 2022
- V. Motor Teknolojileri, Associate Degree, 2022 - 2023
- VI. Termodinamik, Associate Degree, 2022 - 2023, 2021 - 2022
- VII. Modern Üretim Yöntemleri, Associate Degree, 2020 - 2021
- VIII. Isı Transferi, Associate Degree, 2021 - 2022, 2020 - 2021
- IX. Termodinamik, Associate Degree, 2020 - 2021
- X. Motor Teknolojisi, Associate Degree, 2020 - 2021
- XI. Motor Teknolojisi, Associate Degree, 2017 - 2018
- XII. İkinci Yabancı Dil II, Associate Degree, 2016 - 2017
- XIII. İnternet Programcılığı II, Associate Degree, 2015 - 2016
- XIV. İçerik Yönetim Sistemleri II, Associate Degree, 2015 - 2016
- XV. Mesleki Yabancı Dil II, Associate Degree, 2015 - 2016
- XVI. Ofis Programları, Associate Degree, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental and numerical investigation of flow and heat transfer in lancet-type-finned cross-flow heat exchangers**
Mustafaoğlu M., Aksuoğlu O. K., KOTÇIOĞLU İ., GÜNEŞ Ü., YEŞİLYURT M. K., Elaty A. A.
International Communications in Heat and Mass Transfer, vol.159, 2024 (SCI-Expanded)
- II. **Encapsulated Phase Change Material Slurries as Working Fluid in Novel Photovoltaic Thermal Liquid Systems: A Comprehensive Review**
Yeşilyurt M. K., Çomaklı Ö.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF MECHANICAL ENGINEERING, vol.47, no.4, pp.1275-1305, 2023 (SCI-Expanded)
- III. **Construction of palladium nanoparticles supported-poly(trypan blue) electro-catalyst towards ethanol oxidation**
Yeşilyurt M. K., Kurt Urhan B., Öztürk Doğan H., Çomaklı Ö., Nadaroğlu H.
SYNTHETIC METALS, vol.293, 2023 (SCI-Expanded)
- IV. **Degradation Mechanisms of Organic Solar Cells**
YILMAZ E. Ç., ÖNER İ. V., YEŞİLYURT M. K.
International Journal of Engineering Research & Science, vol.2, pp.172-174, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **THE EFFECTS OF CIRCULAR INSERTS ON THE THERMAL AND FLOW CHARACTERISTICS IN A HORIZONTAL PIPE EXCHANGER: A NUMERICAL INVESTIGATION**
Yeşilyurt M. K., Adıgüzel N., Yıldırım O., Çomaklı Ö., Afshari F.

Journal of scientific reports-A (Online), vol.053, pp.189-208, 2023 (Peer-Reviewed Journal)

- II. **A numerical simulation and aerodynamic investigation of air flow around supersonic airfoil profiles**
YEŞİLYURT M. K., MUSTAFAOĞLU M., ÖNER İ. V.
International Journal of Innovative Research and Reviews, vol.6, no.2, pp.113-120, 2022 (Peer-Reviewed Journal)
- III. **Phase Change Materials and Selection Thereof for Heat Transfer Applications**
Yeşilyurt M. K., Nadaroğlu H., Çomaklı Ö.
International Journal of Innovative Research and Reviews, vol.3, no.2, pp.16-22, 2019 (Peer-Reviewed Journal)
- IV. **Biodiesel induced corrosion and degradation: Review**
YEŞİLYURT M. K., ÖNER İ. V., YILMAZ E. Ç.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.25, no.1, pp.60-70, 2019 (ESCI)
- V. **Techniques for Enhancing and Maintaining Electrical Efficiency of Photovoltaic Systems**
YEŞİLYURT M. K., NASİRİ M., ÖZAKIN A. N.
International Journal of New Technology and Research (IJNTR), vol.4, pp.44-53, 2018 (Peer-Reviewed Journal)
- VI. **Experimental Investigation of Thermal Performance of Photovoltaic Thermal (PVT) Systems**
ÖZAKIN A. N., YEŞİLYURT M. K., YAKUT K.
International Journal of Engineering Research Science, vol.12, pp.23-27, 2017 (Peer-Reviewed Journal)
- VII. **Wavelet Analiz Tekniği ve Uygulama Alanları**
Öner İ. V., Yeşilyurt M. K., Yılmaz E. Ç.
Ordu Üniversitesi Bilim ve Teknoloji Dergisi, vol.7, pp.42-56, 2017 (Peer-Reviewed Journal)
- VIII. **Operational Stability and Degradation of Organic Solar Cells**
Yılmaz E. Ç., Yeşilyurt M. K., Öner İ. V., Ömeroğlu G., Özakin A. N.
Periodicals of Engineering and Natural Sciences, vol.5, pp.152-160, 2017 (Scopus)
- IX. **A scrutiny study on wave energy potential and policy in TURKEY**
YEŞİLYURT M. K., ÖNER İ. V., ÖMEROĞLU G., Yılmaz E. Ç.
Periodicals of Engineering and Natural Sciences, vol.5, no.3, pp.286-297, 2017 (Scopus)
- X. **Wind Energy Potential Policies and Status in Turkey**
ÖNER İ. V., YEŞİLYURT M. K., ÖMEROĞLU G., YILMAZ E. Ç.
International Journal of Engineering Research & Science, vol.2, pp.114-120, 2016 (Peer-Reviewed Journal)
- XI. **Photovoltaic Thermal PVT Solar Panels**
Öner İ. V., Yeşilyurt M. K., Yılmaz E. Ç., Ömeroğlu G.
International Journal of New Technology and Research, vol.2, pp.13-16, 2016 (Peer-Reviewed Journal)
- XII. **Alternatif Enerji Kaynağı Olarak Kaya Gazı**
KARSLI S., ÖZAKIN A. N., GÜLLÜCE H., KAYA F., YEŞİLYURT M. K.
Doğalgaz Dergisi, pp.69-74, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Micro-/Nano-Encapsulation and Encapsulation Applications**
Nadaroğlu H., Yeşilyurt M. K., Çomaklı Ö.
in: Science and Applications of Nanoparticles, Waqar Ahmed, Ehsan Nourafkan, Editor, Jenny Stanford Publishing, Singapore, pp.55-102, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Characterization of Physical, Thermal and Hydrodynamic Properties of Microencapsulated Phase Change Material Slurry as a Heat Transfer Fluid**
Yeşilyurt M. K., Nadaroğlu H., Çomaklı Ö.

4th International Symposium on Advanced Materials and Nanotechnology, Batu-Sembilan-Cheras, Malaysia, 1 - 03 December 2020, pp.232-237

- II. **ENCAPSULATED PHASE CHANGE MATERIAL SLURRIES (EPCM-S) AS WORKING FLUID IN HEAT TRANSFER APPLICATIONS**
YEŞİLYURT M. K., ÖMEROĞLU G., ÇOMAKLI Ö., NADAROĞLU H.
4th INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT (ICSD), Atina, Greece, 11 - 15 April 2018, pp.28
- III. **Energy Storage: Need, Value, Perspectives and Prospects**
YEŞİLYURT M. K., ÖNER İ. V., ÖMEROĞLU G., YILMAZ E. Ç., ÖZAKIN A. N.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017
- IV. **Wave Energy as a Renewable Energy for Turkey**
YEŞİLYURT M. K., ÖNER İ. V., ÖMEROĞLU G., YILMAZ E. Ç.
3rd International Conference on Sustainable Development (ICSD), Sarajevo, Bosnia And Herzegovina, 19 - 23 April 2017
- V. **Soğuk İklim Bölgelerinde, Isınma Maksatlı Isı Pompası ve Fotovoltaik PV Hibrit Sistemlerinin Kullanımının Araştırılması**
ÖNER İ. V., YEŞİLYURT M. K., YILMAZ E. Ç., ÖMEROĞLU G., ÖZAKIN A. N.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1411
- VI. **Experimental Investigation of Thermal Performance in Photovoltaic Thermal (PVT) Systems**
ÖZAKIN A. N., YEŞİLYURT M. K., ÖNER İ. V., YAKUT K.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.386-390
- VII. **Rüzgâr Türbinlerinde Oluşan Yorulma ve Aşınma Mekanizmaları**
YILMAZ E. Ç., ÖNER İ. V., YEŞİLYURT M. K., ÖMEROĞLU G.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1412
- VIII. **Degradation and Stabilization of Organic Solar Cells**
YILMAZ E. Ç., YEŞİLYURT M. K., ÖNER İ. V., ÖZAKIN A. N.
International Conference on Engineering and Natural Science, Budapest, Hungary, 3 - 07 May 2017
- IX. **Vücut İçerisinde Kullanılan İmpilantların Korozyonu**
YILMAZ E. Ç., ÖNER İ. V., YEŞİLYURT M. K.
XIV. Uluslararası Korozyon Sempozyumu (KORSEM 2016), Bayburt, Turkey, 5 - 07 October 2016
- X. **Investigation of Mechanical Properties of Restorative Composites After Artificial Aging**
YILMAZ E. Ç., SADELER R., ÖNER İ. V., YEŞİLYURT M. K.
International Energy and Engineering Conference 2016, 13 - 14 October 2016
- XI. **Vücut İçerisinde Kullanılan İmpilantların Korozyonu**
YILMAZ E. Ç., ÖNER İ. V., YEŞİLYURT M. K.
14. Uluslararası Korozyon Sempozyumu, Bayburt, Turkey, 5 - 07 October 2016
- XII. **Biyodizel Yakıtın Korozyon Davranışları**
ÖNER İ. V., YILMAZ E. Ç., YEŞİLYURT M. K.
14. Uluslararası Korozyon Sempozyumu, Bayburt, Turkey, 5 - 07 October 2016, pp.310-317

Supported Projects

- I. NADAROĞLU H., YEŞİLYURT M. K., Project Supported by Higher Education Institutions, Sıralı veya Direkt Geçişli Aktif veya Dinamik Biyodizel Harmanlama Sistemi-2, 2022 - 2024
- II. NADAROĞLU H., YEŞİLYURT M. K., Project Supported by Higher Education Institutions, Sıralı veya Direkt Geçişli Aktif veya Dinamik Biyodizel Harmanlama Sistemi, 2019 - 2022

Patent

- I. Nadarođlu H., Yeşilyurt M. K., BİYODİZEL YAKIT HARMANLAMA SİSTEMİ, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 11111 , Standard Registration, 2019

Activities in Scientific Journals

- I. International Journal of Earth Sciences Knowledge and Applications, Committee Member, 2019 - Continues
- II. International Journal of Innovative Research and Reviews, Committee Member, 2017 - Continues

Scientific Refereeing

- I. International Journal of Nano Dimension, Journal Indexed in ESCI, January 2022
- II. International Journal of Nano Dimension, Journal Indexed in ESCI, August 2019
- III. International Journal of Nano Dimension, Journal Indexed in ESCI, June 2019

Metrics

Publication: 30
Citation (WoS): 17
Citation (Scopus): 23
H-Index (WoS): 4
H-Index (Scopus): 3

Congress and Symposium Activities

- I. World Congress on Nanotechnology 2021, Session Moderator, Erzurum, Turkey, 2021

Coaching Duties

Refereeing Duties

Non Academic Experience

- I. Business Establishment Private, Saferna Çevre Teknolojileri Ltd. Şti.
- II. Saferna Çevre Teknolojileri Ltd. Şti.
- III. Business Establishment Private, Yüksel Proje Uluslararası A.Ş
- IV. Yüksel Proje Uluslararası A.Ş
- V. Business Establishment Private, Atılgan Bilişim Mühendislik Tic. Ltd. Şti
- VI. Atılgan Bilişim Mühendislik Tic. Ltd. Şti

- VII. Business Establishment Private, Avrasya Teknoloji A.Ş.
- VIII. Avrasya Teknoloji A.Ş.
- IX. Business Establishment Private, Attila Dođan İnşaat Ve Tesisat A.Ş.
- X. Business Establishment Private, Bayındır Holding - Sutek A.Ş. Jv
- XI. Attila Dođan İnşaat ve Tesisat A.Ş.
- XII. Bayındır Holding - Sutek A.Ş. JV
- XIII. Business Establishment Private, Streicher - Haustadt&Timmermann - Gunsayil - Alarko Jv
- XIV. Streicher - Haustadt&Timmermann - Gunsayil - Alarko JV