

Prof. ALPASLAN TURGUT

Personal Information

Email: alpaslan.turgut@deu.edu.tr

Web: <https://avesis.deu.edu.tr/alpaslan.turgut>

International Researcher IDs

ScholarID: -4bX9qYAAAAJ

ORCID: 0000-0003-1114-589X

Publons / Web Of Science ResearcherID: I-2796-2013

ScopusID: 23981271100

Yoksis Researcher ID: 143866

Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (Dr), Turkey 2004 - 2010

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1993 - 1999

Dissertations

Doctorate, Investigation of thermophysical properties of nanofluids, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (Dr), 2010

Postgraduate, A study on hot wire method of measuring thermal conductivity, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (YI) (Tezli), 2004

Research Areas

Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2022 - Continues

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2016 - 2022

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2011 - 2016

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2002 - 2011

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2019 - 2022

Courses

Technical English II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Technical English I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Doktora Uzmanlık, Doctorate, 2022 - 2023, 2021 - 2022
ENERJİ YÖNETİMİ ESASLARI, Undergraduate, 2023 - 2024, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
ISITMA HAVALANDIRMA SİSTEMLERİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012
Isıtma Havalandırma Sistemleri, Undergraduate, 2021 - 2022
PhD Thesis, Doctorate, 2022 - 2023, 2021 - 2022
PhD Thesis, Doctorate, 2022 - 2023, 2021 - 2022
MSc Thesis, Postgraduate, 2022 - 2023, 2021 - 2022
MSc Thesis, Postgraduate, 2022 - 2023, 2021 - 2022
Isıtma Havalandırma Sistemleri (İkinci öğretim), Undergraduate, 2021 - 2022
Technical English II (İkinci öğretim), Undergraduate, 2021 - 2022

Advising Theses

Turgut A., Performance enhancement of a Darrieus type vertical axis wind turbine pair for different proximities and tip-speed ratios: An experimental analysis, Doctorate, İ.KÖKEY(Student), 2023
Turgut A., Investigation of photothermal radiometry method for thermal characterization of polymer composites, Doctorate, H.DOĞACAN(Student), 2023
Turgut A., Manyetik nanoakışkan bazlı tek fazlı doğal taşınım döngüsünün sayısal incelenmesi, Postgraduate, S.CAN(Student), 2022
Turgut A., 3B Helmholtz bobin sisteminin tasarımı ve uygulanması, Postgraduate, R.ALSANĞUR(Student), 2022
TURGUT A., Dolgu maddesi tipi ve morfolojisinin termoplastik nanokompozitlere etkileri: Isıl, elektriksel ve mekanik özellikler, Doctorate, T.EVGİN(Student), 2020
TURGUT A., Valfsiz mikropompa tasarımı ve kontrolü, Doctorate, S.DOĞANAY(Student), 2020
TURGUT A., Design of vertical axis wind turbine with variable pitch angle, Postgraduate, R.ALMAZ(Student), 2020
TURGUT A., Darrieus tipi bir rüzgar türbininin art izi karakteristiklerinin incelenmesi, Postgraduate, E.BAYTEKİN(Student), 2019
TURGUT A., Çok katmanlı karbon nanotüp bazlı yağlayıcıların sıcaklığa bağlı ısı iletkenliğinin 3 omega yöntemi ile ölçümü, Postgraduate, A.KAREEM(Student), 2018
TURGUT A., Techno-economic analyses of photovoltaic power plants: A case study of Turkey, Postgraduate, M.ÇEKİRDEK(Student), 2017
TURGUT A., Nanoakışkan bazlı düzlemsel güneş toplayıcının ısı performansının sayısal analizi, Postgraduate, A.METE(Student), 2017
TURGUT A., Experimental and numerical investigation of surfactant effects on the thermal conductivity of carbon nanotube nanofluids, Postgraduate, E.DURSUNKAYA(Student), 2016
TURGUT A., Ag-su nanoakışkanın ısı performansının deneysel incelenmesi, Postgraduate, H.DOĞACAN(Student), 2016
TURGUT A., Cooling electronics with nanofluid, Postgraduate, E.ELBASAN(Student), 2016
TURGUT A., Design of Darrieus type wind turbine, Postgraduate, O.ŞAMDAN(Student), 2016
TURGUT A., Dikey eksenli rüzgar türbinlerinde kanat tipi ve veter uzunluğunun türbin performansına etkisinin sayısal incelenmesi, Postgraduate, A.MACİT(Student), 2015
TURGUT A., Investigation of the viscosity of nanofluids, Postgraduate, Ş.SAĞLANMAK(Student), 2015
TURGUT A., Nanoakışkan ile çalışan kapalı döngü mini termosifon sistemin ısı performansının incelenmesi, Postgraduate, S.DOĞANAY(Student), 2014
TURGUT A., Rüzgar güç sistemlerinin ekserji analizi: İzmir, Türkiye örneği, Postgraduate, İ.KÖKEY(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Magnetic field dependent thermal conductivity investigation of water based Fe₃O₄/CNT and Fe₃O₄/graphene magnetic hybrid nanofluids using a Helmholtz coil system setup**
Alsangur R., Doganay S., Ates İ., TURGUT A., Cetin L., Rebay M.
Diamond and Related Materials, vol.141, 2024 (SCI-Expanded)
- II. **A comprehensive study on the thermal and electrical conductivity of EPDM composites with hybrid carbon fillers**
Koca H. D., Turgut A., Evgin T., Ateş İ., Chirtoc M., Šlouf M., Omastova M.
DIAMOND AND RELATED MATERIALS, vol.139, pp.110289, 2023 (SCI-Expanded)
- III. **3D Helmholtz coil system setup for thermal conductivity measurements of magnetic nanofluids**
Alsangur R., Doğanay S., Ates I., TURGUT A., Cetin L.
Mechatronics, vol.94, 2023 (SCI-Expanded)
- IV. **Investigation of external magnetic field effect on the performance of ferrofluid-based single-phase natural circulation loops**
Bozkır S. C., Çobanoğlu N., Doğanay S., Karadeniz Z. H., Elçiöğlü E. B., TURGUT A.
Thermal Science and Engineering Progress, vol.42, 2023 (SCI-Expanded)
- V. **Constant flow rate micropumping using closed-loop control of magnetically actuated nanofluid**
Doğanay S., Çetin L., EZAN M. A., TURGUT A.
Transactions of the Institute of Measurement and Control, vol.45, no.8, pp.1558-1569, 2023 (SCI-Expanded)
- VI. **Stability, rheology, and thermophysical properties of surfactant free aqueous single-walled carbon nanotubes and graphene nanoplatelets nanofluids: a comparative study**
Alyamac-Seydibeyoglu E., Fidan-Aslan T., TURGUT A., SEYDİBEYOĞLU M. Ö.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.44, no.2, pp.299-308, 2023 (SCI-Expanded)
- VII. **Size effect of hybrid carbon nanofillers on the synergetic enhancement of the properties of HDPE-based nanocomposites**
EVGİN T., TURGUT A., Hamaoui G., Spitalsky Z., Horny N., ALTAY L., Chirtoc M., Omastova M.
NANOTECHNOLOGY, vol.32, no.31, 2021 (SCI-Expanded)
- VIII. **Magnetization behaviour of Fe₃O₄-water and gamma-Fe₂O₃-water magnetic nanofluids**
Alsangur R., DOĞANAY S., TURGUT A., ÇETİN L.
HIGH TEMPERATURES-HIGH PRESSURES, vol.50, no.6, pp.385-394, 2021 (SCI-Expanded)
- IX. **A rotating permanent magnetic actuator for micropumping devices with magnetic nanofluids**
Doganay S., ÇETİN L., EZAN M. A., TURGUT A.
JOURNAL OF MICROMECHANICS AND MICROENGINEERING, vol.30, no.7, 2020 (SCI-Expanded)
- X. **Nanofluid figure-of-merits to assess thermal efficiency of a flat plate solar collector**
ELÇİÖĞLÜ E. B., Genc A. M., KARADENİZ Z. H., EZAN M. A., TURGUT A.
ENERGY CONVERSION AND MANAGEMENT, vol.204, 2020 (SCI-Expanded)
- XI. **Size effects of graphene nanoplatelets on the properties of high-density polyethylene nanocomposites: morphological, thermal, electrical, and mechanical characterization**
EVGİN T., TURGUT A., Hamaoui G., Spitalsky Z., Horny N., Micusik M., Chirtoc M., SARIKANAT M., Omastova M.
BEILSTEIN JOURNAL OF NANOTECHNOLOGY, vol.11, pp.167-179, 2020 (SCI-Expanded)
- XII. **Effect of external magnetic field on thermal conductivity and viscosity of magnetic nanofluids: a review**
Doganay S., Alsangur R., TURGUT A.
MATERIALS RESEARCH EXPRESS, vol.6, no.11, 2019 (SCI-Expanded)
- XIII. **Morphological, electrical, mechanical and thermal properties of high-density polyethylene/multiwall carbon nanotube nanocomposites: effect of aspect ratio**
EVGİN T., TURGUT A., Slouf M., Spitalsky Z., Micusik M., SARIKANAT M., Nogellova Z., Novak I., Omastova M.
MATERIALS RESEARCH EXPRESS, vol.6, no.9, 2019 (SCI-Expanded)
- XIV. **The contact angle of nanofluids as thermophysical property**
Hernaiz M., Alonso V., Estelle P., Wu Z., Sunden B., Doretti L., Mancin S., Cobanoglu N., Karadeniz Z. H., Garmendia N., et al.

- JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.547, pp.393-406, 2019 (SCI-Expanded)
- XV. **Magnetic field dependent thermal conductivity measurements of magnetic nanofluids by 3 omega method**
Doganay S., TURGUT A., ÇETİN L.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.474, pp.199-206, 2019 (SCI-Expanded)
- XVI. **Effect of particle size on the viscosity of nanofluids: A review**
Koca H. D., Doganay S., TURGUT A., Tavman I. H., Saidur R., Mahbulul I. M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.82, pp.1664-1674, 2018 (SCI-Expanded)
- XVII. **Thermal performance of a nanofluid-based flat plate solar collector: A transient numerical study**
Genc A. M., EZAN M. A., TURGUT A.
APPLIED THERMAL ENGINEERING, vol.130, pp.395-407, 2018 (SCI-Expanded)
- XVIII. **Re-dispersion ability of multi wall carbon nanotubes within low viscous mineral oil**
Alasli A., EVGİN T., TURGUT A.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.538, pp.219-228, 2018 (SCI-Expanded)
- XIX. **Experimental study and Taguchi Analysis on alumina-water nanofluid viscosity**
Elcioglu E. B., GÜVENÇ YAZICIOĞLU A., TURGUT A., Anagun A. S.
APPLIED THERMAL ENGINEERING, vol.128, pp.973-981, 2018 (SCI-Expanded)
- XX. **Investigation of Thermal Properties of High-Density Polyethylene/Aluminum Nanocomposites by Photothermal Infrared Radiometry**
Koca H. D., Evgin T., Horny N., Chirtoc M., TURGUT A., Tavman I. H.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.38, no.12, 2017 (SCI-Expanded)
- XXI. **Thermal characteristics and performance of Ag-water nanofluid: Application to natural circulation loops**
Koca H. D., Doganay S., TURGUT A.
ENERGY CONVERSION AND MANAGEMENT, vol.135, pp.9-20, 2017 (SCI-Expanded)
- XXII. **Effect of aspect ratio on thermal conductivity of high density polyethylene/multi-walled carbon nanotubes nanocomposites**
EVGİN T., Koca H. D., Horny N., TURGUT A., Tavman I. H., Chirtoc M., Omastova M., Novak I.
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.82, pp.208-213, 2016 (SCI-Expanded)
- XXIII. **Numerical study on nanofluid based single phase natural circulation mini loops: A steady 3D approach**
KARADENİZ Z. H., Doganay S., TURGUT A.
HIGH TEMPERATURES-HIGH PRESSURES, vol.45, no.4, pp.321-335, 2016 (SCI-Expanded)
- XXIV. **EXPERIMENTAL INVESTIGATION ON THERMAL CONDUCTIVITY AND VISCOSITY OF NANOFUIDS: PARTICLE SIZE EFFECT**
TURGUT A., Saglanmak S., Doganay S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.1, pp.95-103, 2016 (SCI-Expanded)
- XXV. **Graphite nanoplates loading into eutectic mixture of Adipic acid and Sebacic acid as phase change material**
SEKİ Y., Ince S., EZAN M. A., TURGUT A., EREK A.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.140, pp.457-463, 2015 (SCI-Expanded)
- XXVI. **Experimental investigation on effect of ultrasonication duration on colloidal dispersion and thermophysical properties of alumina-water nanofluid**
Mahbulul I. M., Shahrul I. M., Khaleduzzaman S. S., Saidur R., Amalina M. A., TURGUT A.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.88, pp.73-81, 2015 (SCI-Expanded)
- XXVII. **Thermal properties of myristic acid/graphite nanoplates composite phase change materials**
Ince S., SEKİ Y., EZAN M. A., TURGUT A., EREK A.
RENEWABLE ENERGY, vol.75, pp.243-248, 2015 (SCI-Expanded)
- XXVIII. **Enhanced effectiveness of nanofluid based natural circulation mini loop**

- Doganay S., TURGUT A.
APPLIED THERMAL ENGINEERING, vol.75, pp.669-676, 2015 (SCI-Expanded)
- XXIX. **Development and evaluation of graphite nanoplate (GNP)-based phase change material for energy storage applications**
SEKİ Y., Ince S., EZAN M. A., TURGUT A., EREK A.
International Journal of Energy Research, vol.39, no.5, pp.696-708, 2015 (SCI-Expanded)
- XXX. **Thermal performance of a single phase natural circulation mini loop working with nanofluid**
TURGUT A., Doganay S.
HIGH TEMPERATURES-HIGH PRESSURES, vol.43, no.4, pp.311-320, 2014 (SCI-Expanded)
- XXXI. **Thermal-Diffusivity Measurements of Conductive Composites Based on EVA Copolymer Filled With Expanded and Unexpanded Graphite**
Tavman I. H., TURGUT A., da Fonseca H. M., Orlande H. R. B., Cotta R. M., Magalhaes M.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.34, no.12, pp.2297-2306, 2013 (SCI-Expanded)
- XXXII. **Electrical and mechanical properties of expanded graphite/high density polyethylene nanocomposites**
SEVER K., Tavman I. H., SEKİ Y., TURGUT A., Omastova M., ÖZDEMİR İ.
COMPOSITES PART B-ENGINEERING, vol.53, pp.226-233, 2013 (SCI-Expanded)
- XXXIII. **Preparation and photothermal characterization of nanocomposites based on high density polyethylene filled with expanded and unexpanded graphite: Particle size and shape effects**
Chirtoc M., Horny N., Tavman I., TURGUT A., Kokey I., Omastova M.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.62, pp.50-55, 2012 (SCI-Expanded)
- XXXIV. **Photothermal Characterization of Nanocomposites Based on High Density Polyethylene (HDPE) Filled with Expanded Graphite**
Chirtoc M., Horny N., Henry J., TURGUT A., Kokey I., Tavman I., Omastova M.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.33, pp.2110-2117, 2012 (SCI-Expanded)
- XXXV. **THE EFFECTS OF TEMPERATURE AND MUSCLE COMPOSITION ON THE THERMAL CONDUCTIVITY OF FROZEN MEATS**
KUMCUOĞLU S., TURGUT A., TAVMAN Ş.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.34, no.3, pp.425-438, 2010 (SCI-Expanded)
- XXXVI. **Experimental Study on Thermal Conductivity and Viscosity of Water-Based Nanofluids**
Tavman I., TURGUT A., Chirtoc M., Hadjov K., Fudym O., TAVMAN Ş.
HEAT TRANSFER RESEARCH, vol.41, no.3, pp.339-351, 2010 (SCI-Expanded)
- XXXVII. **Thermal Conductivity and Viscosity Measurements of Water-Based TiO₂ Nanofluids**
TURGUT A., Tavman I., Chirtoc M., Schuchmann H. P., Sauter C., Tavman S.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.30, no.4, pp.1213-1226, 2009 (SCI-Expanded)
- XXXVIII. **MEASUREMENT OF THERMAL CONDUCTIVITY OF EDIBLE OILS USING TRANSIENT HOT WIRE METHOD**
TURGUT A., Tavman I., TAVMAN Ş.
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.12, no.4, pp.741-747, 2009 (SCI-Expanded)
- XXXIX. **AC hot wire measurement of thermophysical properties of nanofluids with 3 omega method**
TURGUT A., Sauter C., Chirtoc M., Henry J. F., Tavman S., Tavman I., Pelzl J.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.153, pp.349-352, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Two Dimensional Numerical Analysis of Dual Working Vertical Axis Wind Turbine Performances**
Akgül U., KÖKEY İ., TURGUT A., KARADENİZ Z. H.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.25, no.73, pp.81-89, 2023 (Peer-Reviewed Journal)
- II. **Numerical analysis of performance uncertainty of heat exchangers operated with nanofluids**

KAMENÍK B., ELÇİOĞLU E. B., TURGUT A., MONDRAGON R., HERNANDEZ LOPEZ L., VALLEJO J. P., LUGO L., BUSCHMANN M. H., RAVNIK J.

International Journal of Thermofluids, vol.14, 2022 (Peer-Reviewed Journal)

- III. **Eşli Çalışan Düşey Eksenli Rüzgâr Türbinlerinin Yarı Karmaşık Bir Sahadaki Yıllık Enerji Üretiminin Değerlendirilmesi**
Başer F. C., Kökey İ., KARADENİZ Z. H., TURGUT A.
Deu Muhendislik Fakültesi Fen ve Muhendislik, vol.22, 2020 (Peer-Reviewed Journal)
- IV. **NANOAKIŞKAN İÇEREN TEK FAZLI MİNİ DOĞAL TAŞINIM DÖNGÜLERİNİN SAYISAL OLARAK İNCELENMESİ**
KARADENİZ Z. H., TURGUT A.
Mühendis ve Makina, 2015 (Peer-Reviewed Journal)
- V. **Preparation and mechanical properties of graphite filled HDPE nanocomposites**
SARIKANAT M., Sever K., Erbay E., Güner F., Tavman I., TURGUT A., SEKİ Y., Özdemir I.
Archives of Materials Science and Engineering, vol.50, no.2, pp.120-124, 2011 (Scopus)
- VI. **Measurement of heat capacity and thermal conductivity of HDPE/expanded graphite nanocomposites by differential scanning calorimetry**
TAVMAN İ. H., AYDOĞDU Y., KÖK M., TURGUT A., EZAN M. A.
Archives of Materials Science and Engineering, vol.50, no.1, pp.56-60, 2011 (Peer-Reviewed Journal)
- VII. **Measurement of heat capacity and thermal conductivity of HDPE/expanded graphite nanocomposites by differential scanning calorimetry**
Tavman I., AYDOĞDU Y., Kök M., TURGUT A., EZAN A. C.
Archives of Materials Science and Engineering, vol.50, no.1, pp.56-60, 2011 (Scopus)
- VIII. **Preparation and characterization of highly electrically and thermally conductive polymeric nanocomposites**
Tavman I., Çeçen V., Özdemir I., TURGUT A., Krupa I., Omastova M., Novak I.
Archives of Materials Science and Engineering, vol.40, no.2, pp.84-88, 2009 (Scopus)
- IX. **Experimental Investigation Of Viscosity And Thermal Conductivity Of Suspensions Containing Nanosized Ceramic Particles**
TAVMAN İ. H., TURGUT A., Chirtoc M., Schuchmann H., TAVMAN Ş.
Archives of Materials Science and Engineering, vol.34, no.2, pp.99-104, 2008 (Scopus)

Books & Book Chapters

- I. **Chapter 11 Photothermal spectroscopy of polymer nanocomposites**
Chirtoc M., Horny N., TAVMAN İ. H., TURGUT A.
in: SPECTROSCOPY OF POLYMER NANOCOMPOSITES, , Editor, Elsevier, pp.312-361, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Ferrofluid Droplet Robot Manipulation Using Rule-Based Control Strategy**
Türkmen G. A., DOĞANAY S., ÇETİN L., TURGUT A.
IEEE XVIIIth International Conference on the PERSPECTIVE TECHNOLOGIES AND METHODS IN MEMS DESIGN, Ukraine, 07 September 2022
- II. **Electrical and Thermal Properties of Elastomer Nanocomposites with Hybrid Carbon Based-Nanofillers**
EVGİN T., KOCA H. D., Mičušík M., Pret'ó J., TURGUT A., Omastová M.
The 6th International Conference on Nanomaterials: Fundamentals and Applications, High Tatras, Slovakia, 16 October 2022
- III. **THE EFFECT OF PERMANENT MAGNET LOCATION ON THE PERFORMANCE OF FERROFLUID BASED**

SPNCmL

BOZKIR S. C., ÇOBANOĞLU N., DOĞANAY S., KARADENİZ Z. H., TURGUT A.

Int. Symp. on Convective Heat and Mass Transfer, İzmir, Turkey, 05 June 2022

- IV. **3D Helmholtz Coil System Design for Measuring the Thermal Conductivity of Magnetic Nanofluids**
Alsangur R., DOĞANAY S., TURGUT A., ÇETİN L.
2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), Romania, 27 - 30 October 2021
- V. **Uncertainty estimates for nanofluid heat exchanger design**
Kamenik B., ELÇİOĞLU E. B., TURGUT A., Mondragon R., Lopez L. H., Vallejo J. P., Lugo L., Buschmann M. H., Ravnik J.
3rd European Symposium on Nanofluids (ESNf), Iasi, Romania, 9 - 10 September 2021
- VI. **The Numerical Investigation on Natural Convection Effects in Single-Phase Natural Circulation Mini Loops**
BOZKIR S. C., ÇOBANOĞLU N., DOĞANAY S., KARADENİZ Z. H., TURGUT A.
3rd European Symposium on Nanofluids (ESNf), Iasi, Romania, 9 - 10 September 2021
- VII. **Graphene nanoplatelet nanofluids thermal and hydrodynamic performances revisited**
ELÇİOĞLU E. B., Kamenik B., TURGUT A., Mondragon R., Lopez L. H., Vallejo J. P., Lugo L., Buschmann M. H., Ravnik J.
3rd European Symposium on Nanofluids (ESNf), Iasi, Romania, 9 - 10 September 2021
- VIII. **THE SIZE EFFECT OF CARBON NANOFILLERS ON THE THERMAL CONDUCTIVITY OF HDPE-BASED HYBRID NANOCOMPOSITES**
EVGİN T., TURGUT A., HAMAOUİ G., HORNY N., Spitalsky Z., CHIRTOC M., Omastová M.
THERMAM 2020, 15 October 2020
- IX. **Magnetic Field Distributions inside Magnetically Driven Nanofluids for Thermal Management of CPUs**
Doganay S., ÇETİN L., EZAN M. A., TURGUT A.
4th International Conference on Power, Energy and Mechanical Engineering (ICPEME) / 9th International Conference on Manufacturing Engineering and Processes (ICMEP), Budapest, Hungary, 14 - 17 February 2020, vol.162
- X. **Magnetization Behavior of Fe₃O₄ – Water and Fe₂O₃ – Water Magnetic Nanofluids**
Alsangur R., DOĞANAY S., TURGUT A., ÇETİN L.
6th Int. Conference: Thermophysical and Mechanical Properties of Advanced Materials (THERMAM), 22 - 24 September 2019
- XI. **Solar Radiation Harvesting via Flat Plate Collectors: Nanofluid Figure of Merit against Thermal Efficiency**
Genç A. M., ELÇİOĞLU E. B., KARADENİZ Z. H., EZAN M. A., TURGUT A.
1st International Conference on Nanofluids (ICNf) and the 2nd European Symposium on Nanofluids (ESNf), Castello, Spain, 26 - 28 August 2019
- XII. **Carbon-based nanofluid applications in solar thermal energy**
Çobanoglu N., Karadeniz Z. H., TURGUT A.
13th REHVA World Congress, CLIMA 2019, Bucharest, Romania, 26 - 29 May 2019, vol.111
- XIII. **Stability and Thermal Conductivity of Carbon-based Aqueous Nanofluids**
Fidan Aslan T., Kandemir M., SEYDİBEYOĞLU M. Ö., TURGUT A., ALYAMAÇ SEYDİBEYOĞLU E.
1st International Conference on Nanofluids (ICNF 2019), Castello, Spain, 26 - 28 June 2019
- XIV. **Determination of the Magnetic Force Acting on Magnetic Nanofluids for MEMS Applications**
DOĞANAY S., ÇETİN L., TURGUT A.
1st International Conference on Nanofluids (ICNf), 26 - 28 June 2019
- XV. **Immunity Enhancement to Electrochemical Effect in 3omega Hot Wire Method for Thermal Conductivity Measurement of Nanofluids**
ATEŞ İ., TURGUT A., ÇETİN L., Chirtoc M.
1st International Conference on Nanofluids (ICNf), 26 - 28 June 2019
- XVI. **Synergy Effects of Graphene Nanoplatelets And Multiwalled Carbon Nanotubes on the Electrical Properties of Hdpe-Based Nanocomposites**
EVGİN T., Spitalsky Z., TURGUT A., Omastová M.

THERMAM 2019, 22 September 2019 - 24 March 2020

- XVII. Evaluating the Stability and Heat Transfer Performance of Carbon Based Aqueous Nanofluids**
Fidan Aslan T., TURGUT A., SEYDİBEYOĞLU M. Ö., ALYAMAÇ SEYDİBEYOĞLU E.
International Conference on Engineering Technologies 2018 (ICENTE18), Konya, Turkey, 26 - 28 October 2018
- XVIII. THERMAL DIFFUSIVITY OF POLYMER BASED NANOCOMPOSITES WITH GRAPHENE NANOPATES: THE SIZE EFFECT**
EVGİN T., HAMAOUİ G., HORNY N., CHIRTOC M., Omastová M., Novak I., TAVMAN İ. H., TURGUT A.
THERMAM 2018 7th ROSTOCKER INTERNATIONAL CONFERENCE: "THERMOPHYSICAL PROPERTIES FOR TECHNICAL THERMODYNAMICS", 26 - 27 July 2018
- XIX. Preparation of Stable Nanofluids with Surface Functionalized Nanoparticles and Determination of the Change in Thermal Conductivity of Nanofluids**
Fidan Aslan T., Alasli A., TURGUT A., SEYDİBEYOĞLU M. Ö., ALYAMAÇ SEYDİBEYOĞLU E.
16th International Conference on Clean Energy (ICCE-2018), Gazimagusa, Cyprus (Kkct), 9 - 11 May 2018
- XX. Preparation and Characterization of Carbon Nanofluids**
Fidan Aslan T., Alasli A., TURGUT A., SEYDİBEYOĞLU M. Ö., ALYAMAÇ SEYDİBEYOĞLU E.
Fidan-Aslan T. Alasli A. Turgut A. Seydibeyoglu M. O. Alyamac-Seydibeyoglu E., 2nd National Carbon Conference, İstanbul, Turkey, 16 - 17 March 2018
- XXI. The Influence of External Magnetic Field on Thermal Conductivity of Fe₃O₄-water Magnetic Nanofluid**
DOĞANAY S., TURGUT A., Alasli A., ÇETİN L.
11th International Conference on Thermal Engineering: Theory and Applications, 25 - 27 February 2018
- XXII. Re-dispersion ability of MWCNT within oils**
Alasli A., TURGUT A.
1st European Symposium on Nanofluids (ESNf2017), Lisbon, Portugal, 8 - 10 October 2017, pp.244-248
- XXIII. Aspect ratio effect on the effectiveness of a single phase natural circulation mini loop**
DOĞANAY S., Mohammad A., KARADENİZ Z. H., TURGUT A.
1st European Symposium on Nanofluids (ESNf 2017), Lisbon, Portugal, 8 - 10 October 2017, pp.130-134
- XXIV. Moutseff number analysis on nanofluid based systems: Flat plate solar collectors**
Genç A. M., EZAN M. A., TURGUT A.
1st European Symposium on Nanofluids (ESNf2017), Lisbon, Portugal, 8 - 10 October 2017, pp.212-216
- XXV. Eşli Olarak Çalışan Düşey Eksenli Rüzgar Türbinleri ve Fırsat Penceresi**
KÖKEY İ., KARADENİZ Z. H., TURGUT A., ACARER S.
4. İzmir Rüzgar Sempozyumu ve Sergisi, İzmir, Turkey, 28 - 30 September 2017, pp.83-91
- XXVI. Viscosity and thermal conductivity of magnetic nanofluids**
DOĞANAY S., Özdeniz H., TURGUT A., ÇETİN L.
6th Rostocker International Conference: "Thermophysical Properties for Technical Thermodynamics", Rostock, Germany, 17 - 18 July 2017, pp.25
- XXVII. Investigation on the viscosity and thermal conductivity of polyvinylpyrrolidone / de-ionized water solution**
EVGİN T., KOCA H. D., Alasli A., TURGUT A., TAVMAN İ. H.
THERMAM 2017, Thermophysical Properties for Technical Thermodynamics, Rostock, Germany, 17 - 18 July 2017, pp.27
- XXVIII. Techno-economic analysis of a photovoltaic power plant**
Çekirdek M., YILANCI A., EZAN M. A., TURGUT A.
THERMAM 2017, Thermophysical Properties for Technical Thermodynamics, Rostock, Germany, 17 - 18 July 2017, pp.23
- XXIX. Performance Assessment of Custom Made 3 Omega Setup in Narrow Scale Thermal Conductivity Measurement**
ATEŞ İ., ÇETİN L., Genç A. M., DOĞANAY S., TURGUT A.
International Conference on Energy and Thermal Engineering, İstanbul, Turkey, 25 - 28 April 2017, pp.193-198
- XXX. Evaluating the thermal conductivity and viscosity of CuO-nanolubricants**

Koruk M., TURGUT A., Alasli A.

6th International Conference on Materials Science and Technologies, RoMat 2016, Bucharest, Romania, 9 - 12 November 2016, pp.159-163

- XXXI. **Ferrofluid plug actuation for Micro pumping systems**
Doganay S., TURGUT A., Cetin L.
6th International Conference on Materials Science and Technologies, RoMat 2016, Bucharest, Romania, 9 - 12 November 2016, pp.168-172
- XXXII. **Darrieus tipi bir rüzgar türbininde kanat ucu hızı oranının art izine etkisi**
BAYTEKİN E., ACARER S., KARADENİZ Z. H., TURGUT A.
10. Uluslararası Temiz Enerji Sempozyumu, 24 - 26 October 2016, pp.971-979
- XXXIII. **Investigation of thermal properties of high density polyethylene aluminum nanocomposites by the photothermal infrared radiometry**
KOCA H. D., EVGİN T., Horny N., Chirtoc M., TURGUT A., TAVMAN İ. H.
Conference on Photoacoustic and Photothermal Theory and Applications, 13 - 16 September 2016
- XXXIV. **Numerical Study on Nanofluid Based Flat Plate Solar Collector**
GENÇ A. M., EZAN M. A., TURGUT A.
3rd International Conference on Thermophysical and Mechanical Properties of Advanced Materials (THERMAM 2016), İzmir, Turkey, 1 - 03 September 2016
- XXXV. **The measurements of thermophysical properties of high density polyethylene graphene nanoplatelets nanocomposites by planar disk transient method**
EVGİN T., Bohac V., TAVMAN İ. H., TURGUT A., Novak I., Omastova M.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XXXVI. **Thermal performance of Ag water nanofluids in a single phase natural circulation mini loop**
KOCA H. D., DOĞANAY S., TURGUT A.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XXXVII. **Effect of fluid flow rate on the thermal performance of a nanofluid based system for electronics cooling**
Elbasan E., Özdeniz H., TURGUT A.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XXXVIII. **Enhancing the thermal conductivity of oils by using MWCNTs as additive**
Alash A., EVGİN T., TURGUT A.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XXXIX. **Effect of loop aspect ratio on the performance of nanofluid based single phase natural circulation mini loops**
KARADENİZ Z. H., Aboud M., TURGUT A.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XL. **Nanofluids for enhanced heat transfer Potential applications and barriers**
TURGUT A.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials - THERMAM 2016, 1 - 03 September 2016
- XLI. **Three omega Probe with Auto-zeroing**
Ates I., TURGUT A., ÇETİN L., Chirtoc M.
22nd IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 20 - 23 October 2016, pp.63-65
- XLII. **Gümüş tanecik katkılı yüksek yoğunluklu polietilen kompozitlerin ısı özellikleri**
EVGİN T., EZAN M. A., Erbay E., TAVMAN İ. H., TURGUT A.

20. ULUSAL ISI BİLİMİ VE TEKİNİĞİ KONGRESİ, Bahkesir, Turkey, 2 September - 05 October 2015

- XLIII. **Thermal conductivity and viscosity of Ag water nanofluids**
TURGUT A., KOCA H. D.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials –THERMAM 2015, 17 - 18 September 2015
- XLIV. **Preparation and measurement of heat capacity of high density polyethylene silver nanocomposites**
EZAN M. A., Erbay E., EVGİN T., TAVMAN İ. H., TURGUT A.
International Conference on Thermophysical and Mechanical Properties of Advanced Materials –THERMAM 2015, 17 - 18 September 2015
- XLV. **Preperation and Measurment of Heat Capacity of High Density Polyethylene-Silver Nanocomposites**
EZAN M. A., ERBAY E., EVGİN T., TAVMAN İ. H., TURGUT A.
Thermophysical and Mechanical Properties of Advanced Materials (THERMAM2015), 17 - 18 September 2015
- XLVI. **Some Investigations on Arachidic Acid/Graphene Composite PCMs**
SEKİ Y., İNCE Ş., UZUN M., EZAN M. A., ÇETİN L., TURGUT A., EREK A.
International Conference on Heat Transfer and Fluid Flow (HTFF'14), Prag, Czech Republic, 11 - 12 August 2014
- XLVII. **Improvement the Thermal Performance of Myristic Acid**
EZAN M. A., İNCE Ş., SEKİ Y., TURGUT A., ÇETİN L., EREK A.
10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2014), Orlando, United States Of America, 14 - 16 July 2014
- XLVIII. **Nanofluids for Electronics Cooling**
TURGUT A., Elbasan E.
20th IEEE International Symposium on Design and Technology in Electronic Packaging (SIITME), Bucharest, Romania, 23 - 26 October 2014, pp.35-37
- XLIX. **Polymer Matrix Composites Reinforced with Expanded and Unexpended Graphite Particles for Electronic Packaging Applications**
Tavman I., TURGUT A., Horny N., Chirtoc M.
IEEE 19th International Symposium for Design and Technology in Electronic Packaging (SIITME), Galati, Romania, 24 - 27 October 2013, pp.43-47
- L. **Thermal analysis of thin film transistor liquid crystal display (TFT-LCD) TV panels with single sided LED bars**
Tavman I., TURGUT A., Iz M.
2012 IEEE 18th International Symposium for Design and Technology of Electronics Packages, SIITME 2012, Alba Iulia, Romania, 25 - 28 October 2012, pp.43-47
- LI. **Measurement of thermal conductivity of high-density polyethylene/graphite nanocomposite by hot disk method**
Tavman I. H., Colak M., TURGUT A., Fudym O.
6th International Conference on Thermal Engineering Theory and Applications, İstanbul, Turkey, 29 May - 01 June 2012
- LII. **Monitoring and Determination of Wind Energy Potential by Web Based Wireless Network**
Keskin O., Ates I., Karadeniz Z. H., TURGUT A., KIRAL Z.
11th IEEE International Conference on Machine Learning and Applications (ICMLA), Florida, United States Of America, 12 - 15 December 2012, pp.526-530
- LIII. **A study on cooling efficiency improvement of thin film transistor liquid crystal display (TFT-LCD) modules**
Iz M., Tavman I., TURGUT A.
2011 IEEE 13th Electronics Packaging Technology Conference, EPTC 2011, Singapore, Singapore, 7 - 09 December 2011, pp.536-541
- LIV. **Thermal analysis and experimental validation on cooling efficiency of thin film transistor liquid crystal display (TFT-LCD) panels**
Tavman I., TURGUT A., Iz M.
2011 IEEE 17th International Symposium for Design and Technology of Electronics Packages, SIITME 2011,

Timisoara, Romania, 20 - 23 October 2011, pp.73-76

- LV. PREPARATION AND PHOTOTHERMAL CHARACTERIZATION OF NANOCOMPOSITES BASED ON HIGH DENSITY POLYETHYLENE FILLED WITH EXPANDED GRAPHITE: PARTICLE SIZE AND SHAPE EFFECTS**
Chirtoc M., Horny N., Tavman I., TURGUT A., Kokey I., Omastova M.
International Symposium on Thermal and Materials Nanoscience and Nanotechnology (TMNN), Antalya, Turkey, 29 May - 03 June 2011
- LVI. PREPARATION AND CHARACTERIZATION OF NANOFLUIDS CONTAINING ALUMINA PARTICLES**
TURGUT A., Tavman I., Cetin L., Chirtoc M., Fudym O.
International Symposium on Thermal and Materials Nanoscience and Nanotechnology (TMNN), Antalya, Turkey, 29 May - 03 June 2011
- LVII. Differential Scanning Calorimetry Investigation of Conductive Nanocomposites Based on EVA Copolymer and Expanded Graphite**
TAVMAN İ. H., SEVER K., SEKİ Y., EZAN M. A., TURGUT A., ÖZDEMİR İ., KRUPA I., OMASTOVA M., NOVAK I.
6th Nanoscience and Nanotechnology Conference - NanoTR-VI, İzmir, Turkey, 15 - 18 June 2010
- LVIII. Assessment of modulated hot wire method for thermophysical characterization of fluid and solid matrices charged with (nano)particle inclusions**
Chirtoc M., Henry J. F., TURGUT A., Tavman I., Hadjov K., Schuchmann H. P., Sauter C., Antoniow J. S., Fudym O., Tavman S.
15th International Conference on Photoacoustic and Photothermal Phenomena, Leuven, Belgium, 19 - 23 July 2009, vol.214
- LIX. AN INVESTIGATION ON THERMAL CONDUCTIVITY AND VISCOSITY OF WATER BASED NANOFLUIDS**
Tavman I., TURGUT A.
Conference of the NATO-Advanced-Study-Institute on Microfluidics Based Microsystems - Fundamentals and Applications, Cesme Izmir, Turkey, 23 August - 04 September 2009, pp.139-162

Supported Projects

- Turgut A., TÜBİTAK International Bilateral Joint Cooperation Program Project, Nanofluids Modeling Strategies Evaluation based on Natural Circulation Mini-Loops, 2023 - 2025
- EZAN M. A., Aydın E., GÖK O., ALPTEKİN E., EREK A., TURGUT A., TOKUÇ A., BİLİR L., SEKİ Y., Project Supported by Higher Education Institutions, Güneş Enerjisi Destekli Hibrit Isıl Enerji Depolama Sistemi Tasarımı ve Performansının İncelenmesi, 2021 - 2024
- TURGUT A., Project Supported by Higher Education Institutions, 3B Helmholtz Bobin Sisteminin Tasarımı ve Uygulanması, 2020 - 2022
- TURGUT A., Project Supported by Higher Education Institutions, Eşli halde çalışan Darieus tipi rüzgar türbinlerinin enerji etkileşimleri, 2017 - 2021
- TURGUT A., Project Supported by Higher Education Institutions, Valsiz mikropompa tasarımı ve kontrolü, 2017 - 2019
- TURGUT A., ÇETİN L., TUBITAK Project, Sıvılar İçin Isıl İletkenlik Ölçüm Sistemi, 2015 - 2017
- TURGUT A., Project Supported by Higher Education Institutions, Nanoakışkan İçeren Tek Fazlı Mini Doğal Taşımın Döngülerinin Sayısal Olarak İncelenmesi İKÇÜ GAP Destek No 2014 1 MÜH 19, 2014 - 2016
- TURGUT A., Project Supported by Higher Education Institutions, Kapalı döngü mini termosifon sistemin ısı performansının incelenmesi, 2013 - 2015
- Erek A., Çetin L., Turgut A., Ezan M. A., TUBITAK Project, Nano Tabaka Esaslı Faz Değişim Malzemelerinin Termal Davranışının İncelenmesi Ve Kapsüllü Isıl Enerji Depolama Sistemlerinde Uygulanması, 2012 - 2015
- TURGUT A., Project Supported by Higher Education Institutions, Dokuz Eylül Üniversitesi Tınaztepe Yerleşkesinin rüzgar enerjisi potansiyelinin belirlenmesi, 2012 - 2013

Activities in Scientific Journals

Frontiers in Thermal Engineering, Assistant Editor/Section Editor, 2022 - Continues
Energy and Thermofluids Engineering , Assistant Editor/Section Editor, 2021 - Continues
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Committee Member, 2021 - 2023

Memberships / Tasks in Scientific Organizations

International Centre for Heat and Mass Transfer, Member of Science Committee, 2018 - Continues, Turkey

Scientific Refereeing

MATERIALS TODAY COMMUNICATIONS, Journal Indexed in SCI-E, September 2023
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, Journal Indexed in SCI-E, September 2023
DIAMOND AND RELATED MATERIALS, Journal Indexed in SCI-E, September 2023
ENERGY CONVERSION AND MANAGEMENT, Journal Indexed in SCI-E, August 2023
APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, August 2023
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, Journal Indexed in SCI-E, July 2023
APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, May 2022
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, Journal Indexed in SCI-E, April 2022
ENERGY CONVERSION AND MANAGEMENT, Journal Indexed in SCI-E, March 2022
NANOTECHNOLOGY, Journal Indexed in SCI-E, February 2022
MICROFLUIDICS AND NANOFUIDICS, Journal Indexed in SCI-E, February 2022
CASE STUDIES IN THERMAL ENGINEERING, Journal Indexed in SCI-E, January 2022
COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, Journal Indexed in SCI-E, January 2022

Tasks In Event Organizations

Turgut A., 5th International Symposium on Convective Heat and Mass Transfer, CONV-22, Scientific Congress, Turkey, Haziran 2022

Metrics

Publication: 108
Citation (WoS): 1138
Citation (Scopus): 1521
H-Index (WoS): 22
H-Index (Scopus): 22