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Kişisel Bilgiler

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ScopusID: 23981271100

Yoksis Araştırmacı ID: 143866

Eğitim Bilgileri

Doktora, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Enerji (Dr), Türkiye 2004 - 2010

Yüksek Lisans, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Enerji (YL) (Tezli), Türkiye 2001 - 2004

Lisans, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1993 - 1999

Yaptığı Tezler

Doktora, Investigation of thermophysical properties of nanofluids, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Enerji (Dr), 2010

Yüksek Lisans, A study on hot wire method of measuring thermal conductivity, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Enerji (YL) (Tezli), 2004

Araştırma Alanları

Makina Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2022 - Devam Ediyor

Doç. Dr., Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2016 - 2022

Yrd. Doç. Dr., Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2011 - 2016

Araştırma Görevlisi, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2002 - 2011

Akademik İdari Deneyim

Fakülte Yönetim Kurulu Üyesi, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2019 - 2022

Verdiği Dersler

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

Yönetilen Tezler

Turgut A., Performance enhancement of a Darrieus type vertical axis wind turbine pair for different proximities and tip-speed ratios: An experimental analysis, Doktora, İ.KÖKEY(Öğrenci), 2023
Turgut A., Investigation of photothermal radiometry method for thermal characterization of polymer composites, Doktora, H.DOĞACAN(Öğrenci), 2023
Turgut A., Numerical investigation of magnetic nanofluid based single phase natural circulation loop, Yüksek Lisans, S.CAN(Öğrenci), 2022
Turgut A., Design and implementation of a 3D Helmholtz coil system, Yüksek Lisans, R.ALSANĞUR(Öğrenci), 2022
TURGUT A., Effects of filler type and morphology on thermoplastic nanocomposites: Thermal, electrical and mechanical properties, Doktora, T.EVGİN(Öğrenci), 2020
TURGUT A., Design and control of a valveless micropump, Doktora, S.DOĞANAY(Öğrenci), 2020
TURGUT A., Değişken kanat açılı düşey eksenli rüzgar turbini tasarımları, Yüksek Lisans, R.ALMAZ(Öğrenci), 2020
TURGUT A., Investigation of wake characteristics of a Darrieus type wind turbine, Yüksek Lisans, E.BAYTEKİN(Öğrenci), 2019
TURGUT A., Measuring the temperature dependent thermal conductivity of multiwall carbon nanotubes based nanolubricants by 3 omega method, Yüksek Lisans, A.KAREEM(Öğrenci), 2018
TURGUT A., Fotovoltaik güç santrallerinin teknico-ekonomik analizi: Türkiye örneği, Yüksek Lisans, M.ÇEKİRDEK(Öğrenci), 2017
TURGUT A., Numerical study on thermal performance of a nanofluid based flat plate solar collector, Yüksek Lisans, A.METE(Öğrenci), 2017
TURGUT A., Experimental and numerical investigation of surfactant effects on the thermal conductivity of carbon nanotube nanofluids, Yüksek Lisans, E.DURSUNKAYA(Öğrenci), 2016
TURGUT A., Experimental investigation on thermal performance of Ag—water nanofluids, Yüksek Lisans, H.DOĞACAN(Öğrenci), 2016
TURGUT A., Elektronik sistemlerin nanoakışkan ile soğutulması, Yüksek Lisans, E.ELBASAN(Öğrenci), 2016
TURGUT A., Darrieus tipi rüzgar turbini tasarımları, Yüksek Lisans, O.ŞAMDAN(Öğrenci), 2016
TURGUT A., Numerical investigation of the effect of the blade type and the chord length on the performance of the vertical axis wind turbines, Yüksek Lisans, A.MACİT(Öğrenci), 2015
TURGUT A., Nanoakışkanların viskozitelerinin incelenmesi, Yüksek Lisans, Ş.SAĞLANMAK(Öğrenci), 2015
TURGUT A., Investigation on thermal performance of a closed loop mini thermosyphon system working with nanofluid, Yüksek Lisans, S.DOĞANAY(Öğrenci), 2014
TURGUT A., Exergy analysis of wind power system: A case study of Izmir, Turkey, Yüksek Lisans, İ.KÖKEY(Öğrenci), 2014

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.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., Slouf M., Omastova M.
DIAMOND AND RELATED MATERIALS, cilt.139, ss.110289, 2023 (SCI-Expanded)
- III. **3D Helmholtz coil system setup for thermal conductivity measurements of magnetic nanofluids**
Alsangur R., Doğanay S., Ates İ., TURGUT A., Cetin L.
Mechatronics, cilt.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., Elçioğlu E. B., TURGUT A.
Thermal Science and Engineering Progress, cilt.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, cilt.45, sa.8, ss.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, cilt.44, sa.2, ss.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, cilt.32, sa.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, cilt.50, sa.6, ss.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, cilt.30, sa.7, 2020 (SCI-Expanded)
- X. **Nanofluid figure-of-merits to assess thermal efficiency of a flat plate solar collector**
ELÇİOĞLU E. B., Genc A. M., KARADENİZ Z. H., EZAN M. A., TURGUT A.
ENERGY CONVERSION AND MANAGEMENT, cilt.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, cilt.11, ss.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, cilt.6, sa.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, cilt.6, sa.9, 2019 (SCI-Expanded)
- XIV. **The contact angle of nanofluids as thermophysical property**
Hernaiz M., Alonso V., Estelle P., Wu Z., Sundén B., Doretti L., Mancin S., Cobanoglu N., Karadeniz Z. H., Garmendia

- N., et al.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, cilt.547, ss.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, cilt.474, ss.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., Mahbubul I. M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.82, ss.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, cilt.130, ss.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-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, cilt.538, ss.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, cilt.128, ss.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, cilt.38, sa.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, cilt.135, ss.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, cilt.82, ss.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, cilt.45, sa.4, ss.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, cilt.31, sa.1, ss.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, cilt.140, ss.457-463, 2015 (SCI-Expanded)
- XXVI. **Experimental investigation on effect of ultrasonication duration on colloidal dispersion and thermophysical properties of alumina-water nanofluid**
Mahbubul I. M., Shahrul I. M., Khaleduzzaman S. S., Saidur R., Amalina M. A., TURGUT A.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.88, ss.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, cilt.75, ss.243-248, 2015 (SCI-Expanded)

- XXVIII. Enhanced effectiveness of nanofluid based natural circulation mini loop
 Doganay S., TURGUT A.
 APPLIED THERMAL ENGINEERING, cilt.75, ss.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, cilt.39, sa.5, ss.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, cilt.43, sa.4, ss.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, cilt.34, sa.12, ss.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, cilt.53, ss.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, cilt.62, ss.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, cilt.33, ss.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 \$.
 JOURNAL OF FOOD PROCESSING AND PRESERVATION, cilt.34, sa.3, ss.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 \$.
 HEAT TRANSFER RESEARCH, cilt.41, sa.3, ss.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, cilt.30, sa.4, ss.1213-1226, 2009 (SCI-Expanded)
- XXXVIII. MEASUREMENT OF THERMAL CONDUCTIVITY OF EDIBLE OILS USING TRANSIENT HOT WIRE METHOD
 TURGUT A., Tavman I., TAVMAN \$.
 INTERNATIONAL JOURNAL OF FOOD PROPERTIES, cilt.12, sa.4, ss.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, cilt.153, ss.349-352, 2008 (SCI-Expanded)

Düger Dergilerde Yayınlanan Makaleler

- I. Eşli Çalışan Düsey Eksenli Türbin Performansının İki Boyutlu Benzetimi
 Akgül U., KÖKEY İ., TURGUT A., KARADENİZ Z. H.
 Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, cilt.25, sa.73, ss.81-89, 2023 (Hakemli Dergi)

- II. **Numerical analysis of performance uncertainty of heat exchangers operated with nanofluids**
 KAMENİK 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, cilt.14, 2022 (Hakemli Dergi)
- 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 Fakultesi Fen ve Mühendislik, cilt.22, 2020 (Hakemli Dergi)
- IV. **NANOAKIŞKAN İÇEREN TEK FAZLI MINİ DOĞAL TAŞINIM DÖNGÜLERİNİN SAYISAL OLARAK İNCELENMESİ**
 KARADENİZ Z. H., TURGUT A.
Mühendis ve Makina, 2015 (Hakemli Dergi)
- 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, cilt.50, sa.2, ss.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, cilt.50, sa.1, ss.56-60, 2011 (Hakemli Dergi)
- 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, cilt.50, sa.1, ss.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, cilt.40, sa.2, ss.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, cilt.34, sa.2, ss.99-104, 2008 (Scopus)

Kitap & Kitap Bölümleri

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

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 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, Ukrayna, 07 Eylül 2022
- II. **Electrical and Thermal Properties of Elastomer Nanocomposites with Hybrid Carbon Based-Nanofillers**
 EVGİN T., KOCA H. D., Mičušík M., Preto J., TURGUT A., Omastová M.
The 6th International Conference on Nanomaterials: Fundamentals and Applications, High Tatras, Slovakia, 16 Ekim 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, Türkiye, 05 Haziran 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), Romanya, 27 - 30 Ekim 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, Romanya, 9 - 10 Eylül 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, Romanya, 9 - 10 Eylül 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, Romanya, 9 - 10 Eylül 2021
- VIII. THE SIZE EFFECT OF CARBON NANOFILLERS ON THE THERMAL CONDUCTIVITY OF HDPE-BASED HYBRID NANOCOMPOSITES**
EVGİN T., TURGUT A., HAMAOUI G., HORNY N., Spitalsky Z., CHIRTOC M., Omastová M.
THERMAM 2020, 15 Ekim 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, Macaristan, 14 - 17 Şubat 2020, cilt.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 Eylül 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, İspanya, 26 - 28 Ağustos 2019
- XII. Carbon-based nanofluid applications in solar thermal energy**
Çobanoglu N., Karadeniz Z. H., TURGUT A.
13th REHVA World Congress, CLIMA 2019, Bucharest, Romanya, 26 - 29 Mayıs 2019, cilt.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, İspanya, 26 - 28 Haziran 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 Haziran 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 Haziran 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 Eylül 2019 - 24 Mart 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, Türkiye, 26 - 28 Ekim 2018
- XVIII. **THERMAL DIFFUSIVITY OF POLYMER BASED NANOCOMPOSITES WITHGRAPHENE NANOPLATES: THE SIZE EFFECT**
EVGİN T., HAMAOUI G., HORNY N., CHIRTOC M., Omastová M., Novak I., TAVMAN İ. H., TURGUT A.
THERMAM 20187th ROSTOCKER INTERNATIONAL CONFERENCE: "THERMOPHYSICAL PROPERTIES FORTECHNICAL THERMODYNAMICS", 26 - 27 Temmuz 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, Kıbrıs (Kktc), 9 - 11 Mayıs 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, Türkiye, 16 - 17 Mart 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 ThermalEngineering: Theory and Applications, 25 - 27 Şubat 2018
- XXII. **Re-dispersion ability of MWCNT within oils**
Alash A., TURGUT A.
1st European Symposium on Nanofluids (ESNf2017), Lizbon, Portekiz, 8 - 10 Ekim 2017, ss.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, Portekiz, 8 - 10 Ekim 2017, ss.130-134
- XXIV. **Mouromtseff number analysis on nanofluid based systems: Flat plate solar collectors**
Genç A. M., EZAN M. A., TURGUT A.
1st European Symposium on Nanofluids (ESNf2017), Lizbon, Portekiz, 8 - 10 Ekim 2017, ss.212-216
- XXV. **Esli 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, Türkiye, 28 - 30 Eylül 2017, ss.83-91
- XXVI. **Viscosity and thermal conductivity of magnetic nanofluids**
DOĞANAY S., Özdeniz H., TURGUT A., ÇETİN L.
6th Rostocker International Conference: "Thermophysical PropertiesforTechnical Thermodynamics", Rostock, Almanya, 17 - 18 Temmuz 2017, ss.25
- XXVII. **Investigation on the viscosity and thermal conductivity of polyvinylpyrrolidone / de-ionized water solution**
EVGİN T., KOCA H. D., Alash A., TURGUT A., TAVMAN İ. H.
THERMAM 2017, Thermophysical Properties for Technical Thermodynamics, Rostock, Almanya, 17 - 18 Temmuz 2017, ss.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, Almanya, 17 - 18 Temmuz 2017, ss.23
- XXIX. **Performance Assesment 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, Türkiye, 25 - 28 Nisan 2017, ss.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 Kasım 2016, ss.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 Kasım 2016, ss.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 Ekim 2016, ss.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 Eylül 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, Türkiye, 1 - 03 Eylül 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 Eylül 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 Eylül 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 Eylül 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 Eylül 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 Eylül 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 Eylül 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, Romanya, 20 - 23 Ekim 2016, ss.63-65
- XLII. **Gümüş tanecik katkılı yüksek yoğunluklu polietilen kompozitlerin ısıl özelliklerini**

- EVGİN T., EZAN M. A., Erbay E., TAVMAN İ. H., TURGUT A.
20. ULUSAL ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Balıkesir, Türkiye, 2 Eylül - 05 Ekim 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 Eylül 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 Eylül 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 Eylül 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, Çek Cumhuriyeti, 11 - 12 Ağustos
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,
Amerika Birleşik Devletleri, 14 - 16 Temmuz 2014
- XLVIII. **Nanofluids for Electronics Cooling**
TURGUT A., Elbasan E.
20th IEEE International Symposium on Design and Technology in Electronic Packaging (SIITME), Bucharest,
Romanya, 23 - 26 Ekim 2014, ss.35-37
- XLIX. **Polymer Matrix Composites Reinforced with Expanded and Unexpanded 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, Romanya,
24 - 27 Ekim 2013, ss.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, Romanya, 25 - 28 Ekim 2012, ss.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, Türkiye, 29 Mayıs - 01
Haziran 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, Amerika Birleşik
Devletleri, 12 - 15 Aralık 2012, ss.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, Singapur, 7 - 09 Aralık 2011,
ss.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, Romanya, 20 - 23 Ekim 2011, ss.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, Türkiye,
 29 Mayıs - 03 Haziran 2011
- LVI.** **PREPARATION AND CHARACTERIZATION OF NANOFLOIDS CONTAINING ALUMINA PARTICLES**
 TURGUT A., Tavman I., Cetin L., Chirtoc M., Fudym O.
 International Symposium on Thermal and Materials Nanoscience and Nanotechnology (TMNN), Antalya, Türkiye,
 29 Mayıs - 03 Haziran 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, Türkiye, 15 - 18 Haziran 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, Belçika, 19 - 23 Temmuz
 2009, cilt.214
- LIX.** **AN INVESTIGATION ON THERMAL CONDUCTIVITY AND VISCOSITY OF WATER BASED NANOFLOIDS**
 Tavman I., TURGUT A.
 Conference of the NATO-Advanced-Study-Institute on Microfluidics Based Microsystems - Fundamentals and Applications, Cesme İzmir, Türkiye, 23 Ağustos - 04 Eylül 2009, ss.139-162

Desteklenen Projeler

- EZAN M. A., Aydin E., GÖK O., ALPTEKİN E., EREK A., TURGUT A., TOKUÇ A., BİLİR L., SEKİ Y., Yükseköğretim Kurumları Destekli Proje, Güneş Enerjisi Destekli Hibrit Isıl Enerji Depolama Sistemi Tasarımı ve Performansının İncelenmesi, 2021 - Devam Ediyor
- Turgut A., TÜBİTAK Uluslararası İkili İşbirliği Projesi, Nanoakışkanların Modellenmesinde Kullanılan Yaklaşımların Doğal Taşınım Mini-Döngüleri Yardımıyla Değerlendirilmesi, 2023 - 2025
- TURGUT A., Yükseköğretim Kurumları Destekli Proje, 3B Helmholtz Bobin Sisteminin Tasarımı ve Uygulanması, 2020 - 2022
- TURGUT A., Yükseköğretim Kurumları Destekli Proje, Eşli halde çalışan Darieus tipi rüzgar türbinlerinin enerji etkileşimleri, 2017 - 2021
- TURGUT A., Yükseköğretim Kurumları Destekli Proje, Valfsız mikropompa tasarımı ve kontrolü, 2017 - 2019
- TURGUT A., ÇETİN L., TÜBİTAK Projesi, Sıvılar İçin Isıl İletkenlik Ölçüm Sistemi, 2015 - 2017
- TURGUT A., Yükseköğretim Kurumları Destekli Proje, Nanoakışkan İçeren Tek Fazlı Mini Doğal Taşınım Döngülerinin Sayısal Olarak İncelenmesi İKÇÜ GAP Destek No 2014 1 MÜH 19, 2014 - 2016
- TURGUT A., Yükseköğretim Kurumları Destekli Proje, Kapalı döngü mini termosifon sistemin isıl performansının incelenmesi, 2013 - 2015
- Erek A., Çetin L., Turgut A., Ezan M. A., TÜBİTAK Projesi, Nano Tabaka Esaslı Faz Değişim Malzemelerinin Termal Davranışının İncelenmesi Ve Kapsülü Isıl Enerji Depolama Sistemlerinde Uygulanması, 2012 - 2015
- TURGUT A., Yükseköğretim Kurumları Destekli Proje, Dokuz Eylül Üniversitesi Tinaztepe Yerleşkesinin rüzgar enerjisi potansiyelinin belirlenmesi, 2012 - 2013

Bilimsel Dergilerdeki Faaliyetler

Frontiers in Thermal Engineering, Yardımcı Editör/Bölüm Editörü, 2022 - Devam Ediyor
Energy and Thermofluids Engineering , Yardımcı Editör/Bölüm Editörü, 2021 - Devam Ediyor
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Editörler Kurulu Üyesi, 2021 - 2023

Bilimsel Kuruluşlardaki Üyelikler / Görevler

International Centre for Heat and Mass Transfer, Bilim Kurulu Üyesi, 2018 - Devam Ediyor , Türkiye

Bilimsel Hakemlikler

MATERIALS TODAY COMMUNICATIONS, SCI-E Kapsamındaki Dergi, Eylül 2023
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, SCI-E Kapsamındaki Dergi, Eylül 2023
DIAMOND AND RELATED MATERIALS, SCI-E Kapsamındaki Dergi, Eylül 2023
ENERGY CONVERSION AND MANAGEMENT, SCI-E Kapsamındaki Dergi, Ağustos 2023
APPLIED THERMAL ENGINEERING, SCI-E Kapsamındaki Dergi, Ağustos 2023
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, SCI-E Kapsamındaki Dergi, Temmuz 2023
APPLIED THERMAL ENGINEERING, SCI-E Kapsamındaki Dergi, Mayıs 2022
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, SCI-E Kapsamındaki Dergi, Nisan 2022
ENERGY CONVERSION AND MANAGEMENT, SCI-E Kapsamındaki Dergi, Mart 2022
NANOTECHNOLOGY, SCI-E Kapsamındaki Dergi, Şubat 2022
MICROFLUIDICS AND NANOFUIDICS, SCI-E Kapsamındaki Dergi, Şubat 2022
CASE STUDIES IN THERMAL ENGINEERING, SCI-E Kapsamındaki Dergi, Ocak 2022
COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, SCI-E Kapsamındaki Dergi, Ocak 2022

Etkinlik Organizasyonlarındaki Görevler

Turgut A., 5th International Symposium on Convective Heat and Mass Transfer, CONV-22, Bilimsel Kongre / Sempozyum Organizasyonu, Türkiye, Haziran 2022

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