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Publons / Web Of Science ResearcherID: AAU-3851-2020

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Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (Dr), Turkey 2014 - 2020

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (YI) (Tezli), Turkey 2012 - 2014

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Gıda Teknolojisi (YI) (Tezli), Turkey 2010 - 2012

Undergraduate Double Major, Ege University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 2007 - 2010

Undergraduate, Ege University, Faculty Of Engineering, Gıda Mühendisliği Bölümü, Turkey 2004 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Effects of filler type and morphology on thermoplastic nanocomposites: Thermal, electrical and mechanical properties, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (Dr), 2020

Postgraduate, Thermophysical properties of polymer composites reinforced with conductive fillers, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Enerji (YI) (Tezli), 2014

Postgraduate, Ozmotik işlemle kısmi kurutulmuş kavun dilimlerinin dondurdurulmasının deneysel ve kuramsal olarak incelenmesi, enerji verimliliğinin değerlendirilmesi, Ege University, Fen Bilimleri Enstitüsü, Gıda Teknolojisi (YI) (Tezli), 2012

Research Areas

Energy, Composites

Academic Titles / Tasks

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2012 - Continues

Courses

Temel Bilgi Teknolojileri, Undergraduate, 2023 - 2024

Araştırma Projesi, Undergraduate, 2023 - 2024

Araştırma Projeleri, Undergraduate, 2023 - 2024

MAKİNA MÜHENDİSLİĞİNDE ÖLÇÜM VE ANALİZ LAB., Undergraduate, 2023 - 2024

Temel Bilgi Teknolojileri, Undergraduate, 2023 - 2024

Teknik Resim, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **Investigation of the thermal conductivity enhancement mechanism of polymer composites with carbon-based fillers by scanning thermal microscopy**
Sun W., Hamaoui G., Micusik M., EVGİN T., Vykydalova A., Omastova M., Gomes S.
AIP ADVANCES, vol.12, no.10, 2022 (SCI-Expanded)
- III. **Morphological, Mechanical and Gas Penetration Properties of Elastomer Composites with Hybrid Fillers**
Evgin T., Micušík M., Machata P., Peidayesh H., Pret' O., Omastova M.
POLYMERS, vol.14, no.19, pp.4043, 2022 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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, vol.538, pp.219-228, 2018 (SCI-Expanded)
- VIII. **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)
- IX. **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)

Articles Published in Other Journals

- I. **Thermal Conductivity of Aluminum Particle Filled High Density Polyethylene Composites Particle Size**

Effect

EVGİN T., Ismail Hakki T.

Advanced Materials Research, vol.1114, pp.44-49, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Theoretical estimation of thermal conductivity for the carbon-based nanocomposites: Nan model**
Evgin T.
17th INTERNATIONAL NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 - 29 August 2023, pp.1
- II. **OXYGEN PERMEATION THROUGH EPDM RUBBER CONTAINING VARIOUS LAYERED NANOPARTICLES**
Novak I., EVGİN T., HRONKOVIČ J., Preťo J., Chodak I.
9th International Conference on Polymeric Materials in Automotive PMA 2023& the 25th Slovak Rubber Conference, Bratislava, Slovakia, 24 May 2023
- III. **ELECTRICAL AND MECHANICAL PROPERTIES OF CARBON-BASED ELASTOMERIC COMPOSITES**
EVGİN T., Preto J., Chodak I., Omastová M.
9th International Conference on Polymeric Materials in Automotive PMA 2023& the 25th Slovak Rubber Conference, Bratislava, Slovakia, 24 May 2023
- IV. **Electrical conductivity of elastomer composites based on different dimension carbon materials: A comparative study**
EVGİN T., Omastová M.
8th INTERNATIONAL SEMINAR ON MODERN POLYMERIC MATERIALS FOR ENVIRONMENTAL APPLICATIONS, Krakow, Poland, 17 - 19 May 2023
- V. **Electrical and Thermal Properties of Elastomer Nanocomposites with Hybrid Carbon Based-Nanofillers**
EVGİN T., KOCA H. D., Mičušík M., Preťo J., TURGUT A., Omastová M.
The 6th International Conference on Nanomaterials: Fundamentals and Applications, High Tatras, Slovakia, 16 October 2022
- VI. **Electrical and Mechanical Properties of Natural Rubber Composites**
EVGİN T., Mičušík M., Chodak I., Omastová M.
3 rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022
- VII. **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
- VIII. **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
- IX. **THERMAL DIFFUSIVITY OF POLYMER BASED NANOCOMPOSITES WITHGRAPHENE NANOPATES: THE SIZE EFFECT**
EVGİN T., HAMAOUİ 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 July 2018
- X. **THERMOPHYSICAL PROPERTIES OF POLYMER NANOCOMPOSITES REINFORCED WITH CONDUCTIVE FILLERS**
TAVMAN İ. H., EVGİN T.
ECTP 21stEuropean Conference on Thermophysical Properties, Graz, Austria, 3 - 08 September 2017
- XI. **ELECTRICAL, THERMAL AND SURFACE PROPERTIES OF HDPE/AGNANOCOMPOSITES**
EVGİN T., Spitalsky Z., Novak I., Omastova M., TAVMAN İ. H.

ECTP 21st European Conference on Thermophysical Properties, Graz, Austria, 3 - 08 September 2017

- XII. **THERMOPHYSICAL PROPERTIES OF POLYMER NANOCOMPOSITES REINFORCED WITH CARBON BASED MATERIALS**
TAVMAN İ. H., EVGİN T.
THERMAM 2017 6th ROSTOCKER INTERNATIONAL CONFERENCE: "THERMOPHYSICAL PROPERTIES FOR TECHNICAL THERMODYNAMICS", Rostock, Germany, 17 - 18 July 2017
- XIII. **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, Germany, 17 - 18 July 2017, pp.27
- XIV. **Thermally Conductive Polymer Nanocomposites for Thermal Management of Electronic Packaging**
Tavman I. H., EVGİN T.
23rd IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME), Constanta, Romania, 26 - 29 October 2017, pp.64-67
- XV. **Energy and Efficiency Analysis of A Coal Fired Power Plant**
TAVMAN İ. H., EVGİN T., KOCAEKİZ K.
8th International Ege Energy Symposium and Exhibition, 11 - 13 May 2016
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **The Contact Angle Measurements of HDPE GNP and HDPE Ag Nanocomposites**
EVGİN T., TAVMAN İ. H., Novak I.
13th International Conference on Nanosciences & Nanotechnologies (NN16), 5 - 08 July 2016
- XX. **INVESTIGATION OF GEOTHERMAL WATERS OF SOUTH AZERBAIJAN AND WEST TURKEY**
Misirkhan T., Lala A., EVGİN T., TAVMAN İ. H., Javid s., Egon H.
International Conference: "Thermophysical and Mechanical Properties of Advanced Materials" and 4th Rostocker International Symposium: "Thermophysical Properties for Technical Thermodynamics", 17 - 18 September 2015
- XXI. **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, Balıkesir, Turkey, 2 September - 05 October 2015
- XXII. **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
- XXIII. **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
- XXIV. **Metal Particle Filled, Thermally Conductive Polymer Composites for Electronic Packaging Applications**
Tavman I., EVGİN T.

21st IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME), Brasov, Romania,

22 - 25 October 2015, pp.31-35

- ## XXV. PREPARATION AND MEASUREMENT OF THERMAL CONDUCTIVITY AND HEAT CAPACITY OF ALUMINUM PARTICLE FILLED HIGH DENSITY

POLYETHYLENE&nbsp& & &NANOCOMPOSITES& & &

TAVMAN İ. H., EVGİN T.

19th annual meeting of the Thermophysical Society and Working Group of the Slovak Physical Society -

THERMOPHYSICS 2014, Slovakia, 8 - 10 October 2014

- XXVI. Models and numerical study of thermal conductivity for conductive particle filled polymer composite

International Conference on Thermophysical and Mechanical Properties of Advanced Materials & 3rd

Rostocker Symposium on Thermophysical Properties for Technical Thermodynamics, Turkey, 12 - 15 June 2014

- XXVII. Estimation of thermal conductivity of composites reinforced with conductive particle filler- models

EVGİN T., TAVMAN İ. H.

THERMOPHYSICS 2013, Slovakia, 13 - 15 November 2013

- XXVIII. A numerical study on thermal conductivity of polymer composites reinforced with conductive fillers

Advanced Materials Worlds Congress, İzmir, Turkey, 16 - 19 September 2013

- XXIX. İletken katkılı polimer kompozitlerin ısı iletim katsayılarının modeller ile belirlenmesi**

EVGİN T., TAVMAN İ. H.

19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013

Scientific Refereeing

DIAMOND AND RELATED MATERIALS, SCI Journal, March 2022

POLYMER COMPOSITES, SCI Journal, March 2022

MATERIALS & DESIGN, SCI Journal, January 2022

Metrics

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H-Index (Scopus): 4

Scholarships

The National Scholarship Programme of the Slovak Republic, Official Institutions of Foreign Countries, 2021 - 2022